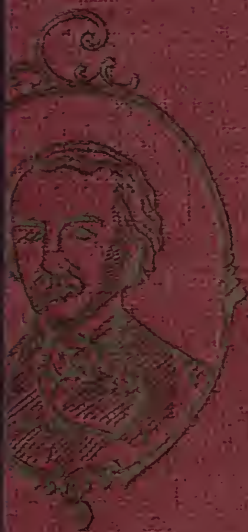


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of A. Poe



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THE RICHMOND EDITION

IN 10 VOLUMES

*The*  
Works  
*of*  
Edgar Allan Poe

VOLUME I

NEW YORK  
JOHN HOVENDON  
286 FIFTH AVENUE

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## EDGAR ALLEN POE:

### AN APPRECIATION.

Caught from some unhappy master whom unmerciful Disaster  
Followed fast and followed faster till his songs one burden bore,—  
Till the dirges of his Hope that melancholy burden bore  
Of “never,—never more !”

This stanza from “The Raven” was recommended by James Russell Lowell as an inscription upon the Baltimore monument which marks the resting place of Edgar Allan Poe, the most interesting and original figure in American letters. And, to signify that peculiar musical quality of Poe’s genius which enralls every reader, Mr. Lowell suggested this additional verse, from the “Haunted Palace:”

And all with pearl and ruby glowing  
Was the fair palace door,  
Through which came flowing, flowing, flowing,  
And sparkling ever more.  
A troop of Echoes, whose sweet duty  
Was but to sing,  
In voices of surpassing beauty,  
The wit and wisdom of their king.

Born in poverty at Boston, January 19, 1809, dying under painful circumstances at Baltimore, October 7, 1849, his whole literary career of scarcely fifteen years a pitiful struggle for

mere subsistence, his memory malignantly misrepresented by his earliest biographer, Griswold, how completely has truth at last routed falsehood and how magnificently has Poe come into his own. For "The Raven," first published in 1845 and, within a few months, read, recited and parodied wherever the English language was spoken, the half-starved poet received \$10! Less than a year later his brother poet, N. P. Willis, issued this touching appeal to the admirers or genius on behalf of the neglected author, his dying wife and her devoted mother, then living under very straitened circumstances in a little cottage at Fordham, N. Y.:

"Here is one of the finest scholars, one of the most original men of genius, and one of the most industrious of the literary profession of our country, whose temporary suspension of labor, from bodily illness, drops him immediately to a level with the common objects of public charity. There is no intermediate stopping-place, no respectful shelter, where, with the delicacy due to genius and culture, he might secure aid, till, with returning health, he would resume his labors, and his unmortified sense of independence."

And this was the tribute paid by the American public to the master who had given to it such tales of conjuring charm, of witchery and mystery as "The Fall of the House of Usher" and "Ligea"; such fascinating hoaxes as

"The Unparalleled Adventure of Hans Pfaal," "MSS. Found in a Bottle," "A Descent Into a Maelstrom" and "The Balloon Hoax"; such tales of conscience as "William Wilson," "The Black Cat" and "The Tell-tale Heart" wherein the retribution of remorse are portrayed with an awful fidelity; such tales of natural beauty as "The Island of the Fay" and "The Domain of Arnheim"; such marvelous studies in ratiocination as the "Gold-bug," "The Murders in the Rue Morgue," "The Purloined Letter" and "The Mystery of Marie Roget," the latter a recital of fact, demonstrating the author's wonderful capability of correctly analyzing the mysteries of the human mind; such tales of illusion and banter as "The Premature Burial" and "The System of Dr. Tarr and Professor Fether"; such bits of extravaganza as "The Devil in the Belfry" and "The Angel of the Odd"; such tales of adventure as "The Narrative of Arthur Gordon Pym"; such papers of keen criticism and review as won for Poe the enthusiastic admiration of Charles Dickens, although they made him many enemies among the over-puffed minor American writers so mercilessly exposed by him; such poems of beauty and melody as "The Bells," "The Haunted Palace," "Tamerlane," "The City in the Sea" and "The Raven." What delight for the jaded senses of the reader is this enchanted domain of wonder-pieces! What an atmosphere of beauty, music, color! What re-

sources of imagination, construction, analysis and absolute art! One might almost sympathize with Sarah Helen Whitman, who, confessing to a half faith in the old superstition of the significance of anagrams, found in the transposed letters of Edgar Poe's name, the words "a God-peer." His mind, she says, was indeed a "Haunted Palace," echoing to the footfalls of angels and demons.

"No man," Poe himself wrote, "has recorded, no man has dared to record, the wonders of his inner life."

In these twentieth century days of lavish recognition—artistic, popular and material—of genius, what rewards might not a Poe claim.

Edgar's father, a son of General David Poe, the American revolutionary patriot and friend of Lafayette, had married Mrs. Hopkins, an English actress, and, the match meeting with parental disapproval, had himself taken to the stage as a profession. Notwithstanding Mrs. Poe's beauty and talent the young couple had a sorry struggle for existence. When Edgar, at the age of two years, was orphaned, the family was in the utmost destitution. Apparently the future poet was to be cast upon the world homeless and friendless. But fate decreed that a few glimmers of sunshine were to illumine his life, for the little fellow was adopted by John Allan, a wealthy merchant of Richmond, Va. A brother and sister, the remaining children, were cared for by others.

In his new home Edgar found all the luxury and advantages money could provide. He was petted, spoiled and shown off to strangers. In Mrs. Allan he found all the affection a childless wife could bestow. Mr. Allan took much pride in the captivating, precocious lad. At the age of five the boy recited, with fine effect, passages of English poetry to the visitors at the Allan house.

From his eighth to his thirteenth year he attended the Manor House school, at Stoke-Newington, a suburb of London. It was the Rev. Dr. Bransby, head of the school, whom Poe so quaintly portrayed in "William Wilson." Returning to Richmond in 1820 Edgar was sent to the school of Professor Joseph H. Clarke. He proved an apt pupil. Years afterward Professor Clarke thus wrote:

"While the other boys wrote mere mechanical verses, Poe wrote genuine poetry; the boy was a born poet. As a scholar he was ambitious to excel. He was remarkable for self-respect, without haughtiness. He had a sensitive and tender heart and would do anything for a friend. His nature was entirely free from selfishness."

At the age of seventeen Poe entered the University of Virginia at Charlottesville. He left that institution after one session. Official records prove that he was not expelled. On the contrary he gained a creditable record as a student, although it is admitted that he contracted

debts and had "an ungovernable passion for card-playing." These debts may have led to his quarrel with Mr. Allan which eventually compelled him to make his own way in the world.

Early in 1827 Poe made his first literary venture. He induced Calvin Thomas, a poor and youthful printer, to publish a small volume of his verses under the title "Tamerlane and Other Poems." In 1829 we find Poe in Baltimore with another manuscript volume of verses, which was soon published. Its title was "Al Aaraaf, Tamerlane and Other Poems." Neither of these ventures seems to have attracted much attention.

Soon after Mrs. Allan's death, which occurred in 1829, Poe, through the aid of Mr. Allan, secured admission to the United States Military Academy at West Point. Any glamour which may have attached to cadet life in Poe's eyes was speedily lost, for discipline at West Point was never so severe nor were the accommodations ever so poor. Poe's bent was more and more toward literature. Life at the academy daily became increasingly distasteful. Soon he began to purposely neglect his studies and to disregard his duties, his aim being to secure his dismissal from the United States service. In this he succeeded. On March 7, 1831, Poe found himself free. Mr. Allan's second marriage had thrown the lad on his own resources. His literary career was to begin.

Poe's first genuine victory was won in 1833, when he was the successful competitor for a prize of \$100 offered by a Baltimore periodical for the best prose story. "A MSS. Found in a Bottle" was the winning tale. Poe had submitted six stories in a volume. "Our only difficulty," says Mr. Latrobe, one of the judges, "was in selecting from the rich contents of the volume."

During the fifteen years of his literary life Poe was connected with various newspapers and magazines in Richmond, Philadelphia and New-York. He was faithful, punctual, industrious, thorough. N. P. Willis, who for some time employed Poe as critic and sub-editor on the *Evening Mirror*, wrote thus:

"With the highest admiration for Poe's genius, and a willingness to let it alone for more than ordinary irregularity, we were led by common report to expect a very capricious attention to his duties, and occasionally a scene of violence and difficulty. Time went on, however, and he was invariably punctual and industrious. We saw but one presentiment of the man—a quiet, patient, industrious and most gentlemanly person.

"We heard, from one who knew him well (what should be stated in all mention of his lamentable irregularities), that with a single glass of wine his whole nature was reversed, the demon became uppermost, and, though none of the usual signs of intoxication were

visible, his will was palpably insane. In this reversed character, we repeat, it was never our chance to meet him."

On September 22, 1835, Poe married his cousin, Virginia Clemm, in Baltimore. She had barely turned thirteen years, Poe himself was but twenty-six. He then was a resident of Richmond and a regular contributor to the *Southern Literary Messenger*. It was not until a year later that the bride and her widowed mother followed him thither.

Poe's devotion to his child-wife was one of the most beautiful features of his life. Many of his famous poetic productions were inspired by her beauty and charm. Consumption had marked her for its victim and the constant efforts of husband and mother were to secure for her all the comfort and happiness their slender means permitted. Virginia died January 30, 1847, when but twenty-five years of age. A friend of the family pictures the death-bed scene—mother and husband trying to impart warmth to her by chafing her hands and her feet, while her pet cat was suffered to nestle upon her bosom for the sake of added warmth.

These verses from "Annabel Lee," written by Poe in 1849, the last year of his life, tell of his sorrow at the loss of his child-wife:

*I was a child and she was a child,  
In a kingdom by the sea ;  
But we loved with a love that was more than love,—  
I and my Annabel Lee ;*

With a love that the winged seraphs of heaven  
Coveted her and me.  
And this was the reason that, long ago,  
In this kingdom by the sea,  
A wind blew out of a cloud, chilling  
My beautiful Annabel Lee ;  
So that her high-born kinsmen came  
And bore her away from me,  
To shut her up in a sepulchre  
In this kingdom by the sea.

Poe was connected at various times and in various capacities with the Southern Literary Messenger in Richmond, Va.; Graham's Magazine and the Gentleman's Magazine in Philadelphia; the Evening Mirror, the Broadway Journal and Godey's Lady's Book in New-York. Everywhere Poe's life was one of unremitting toil. No tales and poems were ever produced at a greater cost of brain and spirit.

Poe's initial salary with the Southern Literary Messenger, to which he contributed the first drafts of a number of his best-known tales, was \$10 a week! Two years later his salary was but \$600 a year. Even in 1844, when his literary reputation was established securely, he wrote to a friend expressing his pleasure because a magazine to which he was to contribute had agreed to pay him \$20 monthly for two pages of criticism.

Those were discouraging times in American literature, but Poe never lost faith. He was finally to triumph wherever pre-eminent talents win admirers. His genius has had no better

description than in this stanza from William Winter's poem, read at the dedication exercises of the Actors' Monument to Poe, May 4, 1885, in New-York:

He was the voice of beauty and of woe,  
Passion and mystery and the dread unknown ;  
Pure as the mountains of perpetual snow,  
Cold as the icy winds that round them moan,  
Dark as the caves wherein earth's thunders groan,  
Wild as the tempests of the upper sky,  
Sweet as the faint, far-off celestial tone of angel  
    whispers, fluttering from on high,  
And tender as love's tear when youth and beauty  
    die.

In the two and a half score years that have elapsed since Poe's death he has come fully into his own. For a while Griswold's malignant misrepresentations colored the public estimate of Poe as man and as writer. But, thanks to J. H. Ingram, W. F. Gill, Eugene Didier, Sarah Helen Whitman and others these scandals have been dispelled and Poe is seen as he actually was—not as a man without failings, it is true, but as the finest and most original genius in American letters. As the years go on his fame increases. His works have been translated into many foreign languages. His is a household name in France and England—in fact, the latter nation has often uttered the reproach that Poe's own country has been slow to appreciate him. But that reproach, if it ever was warranted, certainly is untrue.

W. H. R.

## THE LIFE OF EDGAR A. POE

THE situation of American literature is anomalous. It has no centre, or, if it have, it is like that of the sphere of Hermes. It is divided into many systems, each revolving round its several suns, and often presenting to the rest only the faint glimmer of a milk-and-water way. Our capital city, unlike London or Paris, is not a great central heart from which life and vigor radiate to the extremities, but resembles more an isolated umbilicus stuck down as near as may be to the centre of the land, and seeming rather to tell a legend of former usefulness than to serve any present need. Boston, New York, Philadelphia, each has its literature almost more distinct than those of the different dialects of Germany; and the Young Queen of the West has also one of her own, of which some articulate rumor barely has reached us dwellers by the Atlantic.

Perhaps there is no task more difficult than the just criticism of cotemporary literature. It is even more grateful to give praise where it is needed than where it is deserved, and friendship so often seduces the iron stylus of justice into a vague flourish, that she writes

what seems rather like an epitaph than a criticism. Yet if praise be given as an alms, we could not drop so poisonous a one into any man's hat. The critic's ink may suffer equally from too large an infusion of nutgalls or of sugar. But it is easier to be generous than to be just, and we might readily put faith in that fabulous direction to the hiding-place of truth, did we judge from the amount of water which we usually find mixed with it.

Remarkable experiences are usually confined to the inner life of imaginative men, but Mr. Poe's biography displays a vicissitude and peculiarity of interest such as is rarely met with. The offspring of a romantic marriage, and left an orphan at an early age, he was adopted by Mr. Allan, a wealthy Virginian, whose barren marriage-bed seemed the warranty of a large estate to the young poet.

Having received a classical education in England, he returned home and entered the University of Virginia, where, after an extravagant course, followed by reformation at the last extremity, he was graduated with the highest honors of his class. Then came a boyish attempt to join the fortunes of the insurgent Greeks, which ended at St. Petersburg, where he got into difficulties through want of a passport, from which he was rescued by the American consul and sent home. He now entered the military academy at West Point, from which he obtained a dismissal on hearing of

the birth of a son to his adopted father, by a second marriage, an event which cut off his expectations as an heir. The death of Mr. Allan, in whose will his name was not mentioned, soon after relieved him of all doubt in this regard, and he committed himself at once to authorship for a support. Previously to this, however, he had published (in 1827), a small volume of poems, which soon ran through three editions, and excited high expectations of its author's future distinction in the minds of many competent judges.

That no certain augury can be drawn from a poet's earliest lisplings there are instances enough to prove. Shakespeare's first poems, though brimful of vigor and youth and picturesqueness, give but a very faint promise of the directness, condensation and overflowing moral of his maturer works. Perhaps, however, Shakespeare is hardly a case in point, his "Venus and Adonis" having been published, we believe, in his twenty-sixth year. Milton's Latin verses show tenderness, a fine eye for nature, and a delicate appreciation of classic models, but give no hint of the author of a new style in poetry. Pope's youthful pieces have all the sing-song, wholly unrelieved by the glittering malignity and eloquent irreligion of his later productions. Collins' callow namby-pamby died and gave no sign of the vigorous and original genius which he afterwards displayed. We have never thought that

the world lost more in the "marvellous boy," Chatterton, than a very ingenious imitator of obscure and antiquated dullness. Where he becomes original (as it is called), the interest of ingenuity ceases and he becomes stupid. Kirke White's promises were endorsed by the respectable name of Mr. Southey, but surely with no authority from Apollo. They have the merit of a traditional piety, which to our mind, if uttered at all, had been less objectionable in the retired closet of a dairy, and in the sober raiment of prose. They do not clutch hold of the memory with the drowning pertinacity of Watts; neither have they the interest of his occasional simple, lucky beauty. Burns having fortunately been rescued by his humble station from the contaminating society of the "Best models," wrote well and naturally from the first. Had he been unfortunate enough to have had an educated taste, we should have had a series of poems from which, as from his letters, we could sift here and there a kernel from the mass of chaff. Coleridge's youthful efforts give no promise whatever of that poetical genius which produced at once the wildest, tenderest, most original and most purely imaginative poems of modern times. Byron's "Hours of Idleness," would never find a reader except from an intrepid and indefatigable curiosity. In Wordsworth's first preludings there is but a dim foreboding of the creator of an era. From South-

ey's early poems, a safer augury might have been drawn. They show the patient investigator, the close student of history, and the unwearied explorer of the beauties of predecessors, but they give no assurances of a man who should add aught to stock of household words, or to the rarer and more sacred delights of the fireside or the arbor. The earliest specimens of Shelley's poetic mind already, also, give tokens of that ethereal sublimation in which the spirit seems to soar above the regions of words, but leaves its body, the verse, to be entombed, without hope of resurrection, in a mass of them. Cowley is generally instanced as a wonder of precocity. But his early insipidities show only a capacity for rhyming and for the metrical arrangement of certain conventional combinations of words, a capacity wholly dependent on a delicate physical organization, and an unhappy memory. An early poem is only remarkable when it displays an effort of *reason*, and the rudest verses in which we can trace some conception of the ends of poetry, are worth all the miracles of smooth juvenile versification. A school-boy, one would say, might acquire the regular see-saw of Pope merely by an association with the motion of the play-ground tilt.

Mr. Poe's early productions show that he could see through the verse to the spirit beneath, and that he already had a feeling that all the life and grace of the one must depend

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on and be modulated by the will of the other. We call them the most remarkable boyish poems that we have ever read. We know of none that can compare with them for maturity of purpose, and a nice understanding of the effects of language and metre. Such pieces are only valuable when they display what we can only express by the contradictory phrase of *innate experience*. We copy one of the shorter poems, written when the author was only fourteen. There is a little dimness in the filling up, but the grace and symmetry of the outline are such as few poets ever attain. There is a smack of ambrosia about it.

TO HELEN.

Helen, thy beauty is to me  
Like those Nicean barks of yore,  
That gently, o'er a perfumed sea,  
The weary, way-worn wanderer bore  
To his own native shore.

On desperate seas long wont to roam,  
Thy hyacinth hair, thy classic face,  
Thy Naiad airs have brought me home  
To the glory that was Greece  
And the grandeur that was Rome.

Lo! in yon brilliant window-niche  
How statue-like I see thee stand!  
The agate lamp within thy hand,  
Ah! Psyche, from the regions which  
Are Holy Land!

It is the *tendency* of the young poet that impresses us. Here is no "withering scorn," no heart "blighted" ere it has safely got into its teens, none of the drawing-room sansculottism which Byron had brought into vogue. All is lympid and serene, with a pleasant dash of the Greek Helicon in it. The melody of the whole, too, is remarkable. It is not of that kind which can be demonstrated arithmetically upon the tips of the fingers. It is of that finer sort which the inner ear alone can estimate. It seems simple, like a Greek column, because of its perfection. In a poem named "Ligeia," under which title he intended to personify the music of nature, our boy-poet gives us the following exquisite picture:

Ligeia! Ligeia!  
My beautiful one,  
Whose harshest idea  
Will to melody run,  
Say, is it thy will,  
On the breezes to toss,  
Or, capriciously still,  
Like the lone albatross,  
Incumbent on night,  
As she on the air,  
To keep watch with delight  
On the harmony there?

John Neal, himself a man of genius, and whose lyre has been too long capriciously silent, appreciated the high merit of these and similiar passages, and drew a proud horoscope for their author.

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Mr. Poe had that indescribable something which men have agreed to call *genius*. No man could ever tell us precisely what it is, and yet there is none who is not inevitably aware of its presence and its power. Let talent writhe and contort itself as it may, it has no such magnetism. Larger of bone and sinew it may be, but the wings are wanting. Talent sticks fast to earth, and its most perfect works have still one foot of clay. Genius claims kindred with the very workings of nature herself, so that a sunset shall seem like a quotation from Dante, and if Shakespeare be read in the very presence of the sea itself, his verses shall but seem nobler for the sublime criticism of ocean. Talent may make friends for itself, but only genius can give to its creations the divine power of winning love and veneration. Enthusiasm cannot cling to what itself is unenthusiastic, nor will he ever have disciples who has not himself impulsive zeal enough to be a disciple. Great wits are allied to madness only inasmuch as they are possessed and carried away by their demon, while talent keeps him, as Paracelsus did, securely prisoned in the pommel of his sword. To the eye of genius, the veil of the spiritual world is ever rent asunder, that it may perceive the ministers of good and evil who throng continually around it. No man of mere talent ever flung his inkstand at the devil.

When we say that Mr. Poe had genius, we

do not mean to say that he has produced evidence of the highest. But to say that he possesses it at all is to say that he needs only zeal, industry, and a reverence for the trust reposed in him, to achieve the proudest triumphs and the greenest laurels. If we may believe the Longinuses and Aristotles of our newspapers, we have quite too many geniuses of the loftiest order to render a place among them at all desirable, whether for its hardness of attainment or its seclusion. The highest peak of our Parnassus is, according to these gentlemen, by far the most thickly settled portion of the country, a circumstance which must make it an uncomfortable residence for individuals of a poetical temperament, if love of solitude be, as immemorial tradition asserts, a necessary part of their idiosyncrasy.

Mr. Poe has two of the prime qualities of genius, a faculty of vigorous yet minute analysis, and a wonderful fecundity of imagination. The first of these faculties is as needful to the artist in words, as a knowledge of anatomy is to the artist in colors or in stone. This enables him to conceive truly, to maintain a proper relation of parts, and to draw a correct outline, while the second groups, fills up and colors. Both of these Mr. Poe has displayed with singular distinctness in his prose works, the last predominating in his earlier tales, and the first in his later ones. In judging of the merit of an author, and assigning him his

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niche among our household gods, we have a right to regard him from our own point of view, and to measure him by our own standard. But, in estimating the amount of power displayed in his works, we must be governed by his own design, and placing them by the side of his own ideal, find how much is wanting. We differ from Mr. Poe in his opinions of the objects of art. He esteems that object to be the creation of Beauty, and perhaps it is only in the definition of that word that we disagree with him. But in what we shall say of his writings, we shall take his own standard as our guide. The temple of the god of song is equally accessible from every side, and there is room enough in it for all who bring offerings, or seek in oracle.

In his tales, Mr. Poe has chosen to exhibit his power chiefly in that dim region which stretches from the very utmost limits of the probable into the weird confines of superstition and unreality. He combines in a very remarkable manner two faculties which are seldom found united; a power of influencing the mind of the reader by the impalpable shadows of mystery, and a minuteness of detail which does not leave a pin or a button unnoticed. Both are, in truth, the natural results of the predominating quality of his mind, to which we have before alluded, analysis. It is this which distinguishes the artist. His mind at once reaches forward to the effect to be produced.

Having resolved to bring about certain emotions in the reader, he makes all subordinate parts tend strictly to the common centre. Even his mystery is mathematical to his own mind. To him X is a known quantity all along. In any picture that he paints he understands the chemical properties of all his colors. However vague some of his figures may seem, however formless the shadows, to him the outline is as clear and distinct as that of a geometrical diagram. For this reason Mr. Poe has no sympathy with *Mysticism*. The Mystic dwells in the mystery, is enveloped with it; it colors all his thoughts; it affects his optic nerve especially, and the commonest things get a rainbow edging from it. Mr. Poe, on the other hand, is a spectator *ab extra*. He analyzes, he dissects, he watches

“with an eye serene,  
The very pulse of the machine,”

for such it practically is to him, with wheels and cogs and piston-rods, all working to produce a certain end.

This analyzing tendency of his mind balances the poetical, and by giving him the patience to be minute, enables him to throw a wonderful reality into his most unreal fancies. A monomania he paints with great power. He loves to dissect one of these cancers of the mind, and to trace all the subtle ramifications

of its roots. In raising images of horror, also, he has a strange success, conveying to us sometimes by a dusky hint some terrible *doubt* which is the secret of all horror. He leaves to imagination the task of finishing the picture, a task to which only she is competent.

“For much imaginary work was there;  
Conceit deceitful, so compact, so kind,  
That for Achilles’ image stood his spear  
Grasped in an armed hand; himself behind  
Was left unseen, save to the eye of mind.”

Besides the merit of conception, Mr. Poe’s writings have also that of form.

His style is highly finished, graceful and truly classical. It would be hard to find a living author who had displayed such varied powers. As an example of his style we would refer to one of his tales, “The House of Usher,” in the first volume of his “Tales of the Grotesque and Arabesque.” It has a singular charm for us, and we think that no one could read it without being strongly moved by its serene and sombre beauty. Had its author written nothing else, it would alone have been enough to stamp him as a man of genius, and the master of a classic style. In this tale occurs, perhaps, the most beautiful of his poems.

The great masters of imagination have seldom resorted to the vague and the unreal as sources of effect. They have not used dread

and horror alone, but only in combination with other qualities, as means of subjugating the fancies of their readers. The loftiest muse has ever a household and fireside charm about her. Mr. Poe's secret lies mainly in the skill with which he has employed the strange fascination of mystery and terror. In this his success is so great and striking as to deserve the name of art, not artifice. We cannot call his materials the noblest or purest, but we must concede to him the highest merit of construction.

As a critic, Mr. Poe was æsthetically deficient. Unerring in his analysis of dictions, metres and plots, he seemed wanting in the faculty of perceiving the profounder ethics of art. His criticisms are, however, distinguished for scientific precision and coherence of logic. They have the exactness, and at the same time, the coldness of mathematical demonstrations. Yet they stand in strikingly refreshing contrast with the vague generalisms and sharp personalities of the day. If deficient in warmth, they are also without the heat of partisanship. They are especially valuable as illustrating the great truth, too generally overlooked, that analytic power is a subordinate quality of the critic.

On the whole, it may be considered certain that Mr. Poe has attained an individual eminence in our literature, which he will keep. He has given proof of power and originality.

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He has done that which could only be done once with success or safety, and the imitation or repetition of which would produce weariness.

JAMES RUSSELL LOWELL.

## DEATH OF EDGAR A. POE.

BY N. P. WILLIS.

THE ancient fable of two antagonistic spirits imprisoned in one body, equally powerful and having the complete mastery by turns—of one man, that is to say, inhabited by both a devil and an angel—seems to have been realized, if all we hear is true, in the character of the extraordinary man whose name we have written above. Our own impression of the nature of Edgar A. Poe, differs in some important degree, however, from that which has been generally conveyed in the notices of his death. Let us, before telling what we personally know of him, copy a graphic and highly finished portraiture, from the pen of Dr. Rufus W. Griswold, which appeared in a recent number of the *Tribune* : \*

"Edgar Allen Poe is dead. He died in Baltimore on Sunday, October 7th. This announcement will startle many, but few will be grieved by it. The poet was known, personally or by reputation, in all this country ; he had readers in England and in several of the states of Continental Europe ; but he had few or no friends ; and the regrets for his death will be suggested principally by the consideration that in him literary art has lost one of its most brilliant but erratic stars.

"His conversation was at times almost supra-mortal in its eloquence. His voice was modulated with astonishing skill, and his large and variably expressive eyes looked repose or shot fiery tumult into theirs who listened, while his own face glowed, or was changeless in pallor, as his imagination quickened his blood or drew it back frozen to his heart. His imagery was from the worlds, which no mortals can see but with the vision of genius. Suddenly starting from a proposition, exactly and sharply defined, in terms of utmost simplicity and clearness, he ejected the forms of customary logic, and by a crystalline process of accretion, built up his ocular demonstrations in forms of gloomiest and ghastliest grandeur, or in those of the most airy and delicious beauty, so minutely and distinctly, yet so rapidly, that the attention which was yielded to him was chained till it stood among his wonderful creations, till he him-

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\* These remarks were published by Mr. Willis in the *Home Journal*, on the Saturday following Mr. Poe's death.

self dissolved the spell, and brought his hearers back to common and base existence, by vulgar fancies or exhibitions of the ignoblest passion.

"He was at all times a dreamer—dwelling in ideal realms—in heaven or hell—peopled with the creatures and the accidents of his brain. He walked the streets, in madness or melancholy, with lips moving in indistinct curses, or with eyes upturned in passionate prayer (never for himself, for he felt, or professed to feel, that he was already damned, but) for their happiness who at the moment were objects of his idolatry; or with his glances introverted to a heart gnawed with anguish, and with a face shrouded in gloom, he would brave the wildest storms, and all night, with drenched garments and arms beating the winds and rains, would speak as if the spirits that at such times only could be evoked by him from the Aldenn, close by whose portals his disturbed soul sought to forget the ills to which his constitution subjected him—close by the Aldenn where were those he loved—the Aldenn which he might never see, but in fitful glimpses, as its gates opened to receive the less fiery and more happy natures whose destiny to sin did not involve the doom of death.

"He seemed, except when some fitful pursuit subjugated his will and engrossed his faculties, always to bear the memory of some controlling sorrow. The remarkable poem of *The Raven* was probably much more nearly than has been supposed, even by those who were very intimate with him, a reflection and an echo of his own history. He was that bird's

"unhappy master whom unmerciful Disaster  
Followed fast and followed faster till his songs one burden  
bore—  
Till the dirges of his Hope that melancholy burden bore  
Of 'Never—never more.'

"Every genuine author in a greater or less degree leaves in his works, whatever their design, traces of his personal character: elements of his immortal being, in which the individual survives the person. While we read the pages of the *Full of the House of Usher*, or of *Mesmeric Revelations*, we see in the solemn and stately gloom which invests one, and in the subtle metaphysical analysis of both, indications of the idiosyncracies of what was most remarkable and peculiar in the author's intellectual nature. But we see here only the better phases of his nature, only the symbols of his juster action, for his harsh experience had deprived him of all faith in man or woman. He had made up his mind upon the numberless complexities of the social world, and the whole system with him was an imposture. This conviction gave a direction to his shrewd and naturally unamiable character. Still, though he regarded society as composed altogether of villains, the sharpness of his intellect was not of that kind which enabled him to cope with villany, while it continually caused him by overshots to fail of the success of honesty. He was in many respects like Francis Vivian in Bulwer's novel of 'The Caxtons.' Passion.

in him, comprehended many of the worst emotions which militate against human happiness. You could not contradict him, but you raised quick choler; you could not speak of wealth, but his cheek paled with gnawing envy. The astonishing natural advantages of this poor boy—his beauty, his readiness, the daring spirit that breathed around him like a fiery atmosphere—had raised his constitutional self-confidence into an arrogance that turned his very claims to admiration into prejudices against him. Irascible, envious—bad enough, but not the worst, for these salient angles were all varnished over with a cold, repellant cynicism, his passions vented themselves in sneers. There seemed to him no moral susceptibility; and, what was more remarkable in a proud nature, little or nothing of the true point of honor. He had, to a morbid excess, that desire to rise which is vulgarly called ambition, but no wish for the esteem or the love of his species; only the hard wish to succeed—not shine, not serve—succeed, that he might have the right to despise a world which galled his self-conceit.

"We have suggested the influence of his aims and vicissitudes upon his literature. It was more conspicuous in his later than in his earlier writings. Nearly all that he wrote in the last two or three years—including much of his best poetry—was in some sense biographical; in draperies of his imagination, those who had taken the trouble to trace his steps, could perceive, but slightly concealed, the figure of himself."

Apropos of the disparaging portion of the above well-written sketch, let us truthfully say:—

Some four or five years since, when editing a daily paper in this city, Mr. Poe was employed by us, for several months, as critic and sub-editor. This was our first personal acquaintance with him. He resided with his wife and mother at Fordham, a few miles out of town, but was at his desk in the office, from nine in the morning till the evening paper went to press. With the highest admiration for his genius, and a willingness to let it atone for more than ordinary irregularity, we were led by common report to expect a very capricious attention to his duties, and occasionally a scene of violence and difficulty. Time went on, however, and he was invariably punctual and industrious. With his pale, beautiful, and intellectual face, as a reminder of what genius was in him, it was impossible, of course, not to treat him always with deferential courtesy, and, to our occasional request that he would not probe too deep in a criticism, or that he would erase a passage colored too highly with his resentments against society and mankind, he readily and courteously assented—far more yielding than most men, we thought, on points so excusably sensitive. With a prospect of taking the lead in another periodical, he, at last, voluntarily gave up his employment with us, and, through all this considerable period, we had seen but one presentment of the man—a quiet, patient, industrious, and most gentlemanly person, commanding the utmost respect and good feeling by his unvarying deportment and ability.

Residing as he did in the country, we never met Mr. Poe in

hours of leisure ; but he frequently called on us afterwards at our place of business, and we met him often in the street—invariably the same sad-mannered, winning and refined gentleman, such as we had always known him. It was by rumor only, up to the day of his death, that we knew of any other development of manner or character. We heard, from one who knew him well (what should be stated in all mention of his lamentable irregularities), that, with a *single glass* of wine, his whole nature was reversed, the demon became uppermost, and, though none of the usual signs of intoxication were visible, his *will* was palpably insane. Possessing his reasoning faculties in excited activity, at such times, and seeking his acquaintances with his wonted look and memory, he easily seemed personating only another phase of his natural character, and was accused, accordingly, of insulting arrogance and bad-heartedness. In this reversed character, we repeat, it was never our chance to see him. We know it from hearsay, and we mention it in connection with this sad infirmity of physical constitution ; which puts it upon very nearly the ground of a temporary and almost irresponsible insanity.

The arrogance, vanity, and depravity of heart, of which Mr. Poe was generally accused, seem to us referable altogether to this reversed phase of his character. Under that degree of intoxication which only acted upon him by demonizing his sense of truth and right, he doubtless said and did much that was wholly irreconcilable with his better nature ; but, when himself, and as we knew him only, his modesty and unaffected humility, as to his own deservings, were a constant charm to his character. His letters, of which the constant application for autographs has taken from us, we are sorry to confess, the greater portion, exhibited this quality very strongly. In one of the carelessly written notes of which we chance still to retain possession, for instance, he speaks of "*The Raven*"—that extraordinary poem which electrified the world of imaginative readers, and has become the type of a school of poetry of its own—and, in evident earnest, attributes its success to the few words of commendation with which we had prefaced it in this paper. It will throw light on his sane character to give a literal copy of the note:—

"FORDHAM, April 20, 1849.

"MY DEAR WILLIS.—The poem which I enclose, and which I am so vain as to hope you will like, in some respects, has been just published in a paper for which sheer necessity compels me to write, now and then. It pays well as times go—but unquestionably it ought to pay ten prices ; for whatever I send it I feel I am consigning to the tomb of the Capulets. The verses accompanying this, may I beg you to take out of the tomb, and bring them to light in the *Home Journal* ? If you can oblige me so far as to copy them, I do not think it will be necessary to say 'From the —,' that would be too bad ; and, perhaps, 'From a late — paper,' would do.

"I have not forgotten how a 'good word in season' from you

made 'The Raven,' and made 'Ulalume,' (which by-the-way, people have done me the honor of attributing to you), therefore, I *would* ask you (if I dared) to say something of these lines if they please you.

"Truly yours ever,

"EDGAR A. POE."

In double proof of his earnest disposition to do the best for himself, and of the trustful and grateful nature which has been denied him, we give another of the only three of his notes which we chance to retain:—

"FORDHAM, January 22, 1848.

"MY DEAR MR. WILLIS,—I am about to make an effort at re-establishing myself in the literary world, and *feel* that I may depend upon your aid.

"My general aim is to start a Magazine, to be called *The Stylus*, but it would be useless to me, even when established, if not entirely out of the control of a publisher. I mean, therefore, to get up a journal which shall be *my own* at all points. With this end in view, I must get a list of, at least, five hundred subscribers to begin with; nearly two hundred I have already. I propose, however, to go South and West, among my personal and literary friends—old college and West Point acquaintances—and see what I can do. In order to get the means of taking the first step, I propose to lecture at the Society Library, on Thursday, the 3rd of February, and, that there may be no cause of *squabbling*, my subject shall *not be literary* at all. I have chosen a broad text: 'The Universe.'

"Having thus given you *the facts* of the case, I leave all the rest to the suggestions of your own tact and generosity. Gratefully, *most gratefully*,

"Your friend always,

"EDGAR A. POE."

Brief and chance-taken as these letters are, we think they sufficiently prove the existence of the very qualities denied to Mr. Poe—humility, willingness to persevere, belief in another's kindness, and capability of cordial and grateful friendship! Such he assuredly was *when sane*. Such only he has invariably seemed to us, in all we have happened personally to know of him, through a friendship of five or six years. And so much easier is it to believe what we have seen and known, than what we *hear of* only, that we remember him but with admiration and respect; these descriptions of him, when morally insane, seeming to us like portraits, painted in sickness, of a man we have only known in health.

But there is another, more touching, and far more forcible evidence that there *was* goodness in Edgar A. Poe. To reveal it, we are obliged to venture upon the lifting of the veil which sacredly covers grief and refinement in poverty; but we think it may be excused, if so we can brighten the memory of the poet, even were there not a more needed and immediate

service which it may render to the nearest link broken by his death.

Our first knowledge of Mr. Poe's removal to this city was by a call which we received from a lady who introduced herself to us as the mother of his wife. She was in search of employment for him, and she excused her errand by mentioning that he was ill, that her daughter was a confirmed invalid, and that their circumstances were such as compelled her taking it upon herself. The countenance of this lady, made beautiful and saintly with an evidently complete giving up of her life to privation and sorrowful tenderness, her gentle and mournful voice urging its plea, her long-forgotten but habitually and unconsciously refined manners, and her appealing and yet appreciative mention of the claims and abilities of her son, disclosed at once the presence of one of those angels upon earth that women in adversity can be. It was a hard fate that she was watching over. Mr. Poe wrote with fastidious difficulty, and in a style too much above the popular level to be well paid. He was always in pecuniary difficulty, and, with his sick wife, frequently in want of the merest necessities of life. Winter after winter, for years, the most touching sight to us, in this whole city, has been that tireless minister to genius, thinly and insufficiently clad, going from office to office with a poem, or an article on some literary subject, to sell, sometimes simply pleading in a broken voice that he was ill, and begging for him, mentioning nothing but that "he was ill," whatever might be the reason for his writing nothing, and never, amid all her tears and recitals of distress, suffering one syllable to escape her lips that could convey a doubt of him, or a complaint, or a lessening of pride in his genius and good intentions. Her daughter died a year and a half since, but she did not desert him. She continued his ministering angel—living with him, caring for him, guarding him against exposure, and when he was carried away by temptation, amid grief and the loneliness of feelings unrequited to, and awoke from his self-abandonment prostrated in destitution and suffering, *begging* for him still. If woman's devotion, born with a first love, and fed with human passion, hallow its object, as it is allowed to do, what does not a devotion like this—pure, disinterested and holy as the watch of an invisible spirit—say for him who inspired it?

We have a letter before us, written by this lady, Mrs. Clemm, on the morning in which she heard of the death of this object of her untiring care. It is merely a request that we would call upon her, but we will copy a few of its words—sacred as its privacy is—to warrant the truth of the picture we have drawn above, and add force to the appeal we wish to make for her:—

"I have this morning heard of the death of my darling Eddie. . . . Can you give me any circumstances or particulars? . . . Oh! do not desert your poor friend in his bitter affliction! . . . Ask Mr. — to come, as I must deliver a message to him from my poor Eddie. . . . I need not ask you to notice his death and to speak well of him.

I know you will. But say what an affectionate son he was to me, his poor desolate mother. . . ."

To hedge round a grave with respect, what choice is there, between the relinquished wealth and honors of the world, and the story of such a woman's unrewarded devotion! Risking what we do, in delicacy, by making it public, we feel—other reasons aside—that it betters the world to make known that there are such ministrations to its erring and gifted. What we have said will speak to some hearts. There are those who will be glad to know how the lamp, whose light of poetry has beamed on their far-away recognition, was watched over with care and pain, that they may send to her, who is more darkened than they by its extinction, some token of their sympathy. She is destitute and alone. If any, far or near, will send to us what may aid and cheer her through the remainder of her life, we will joyfully place it in her hands.



## THE UNPARALLELED ADVENTURE OF ONE HANS PFAALL.

With a heart of furious fancies,  
Whereof I am commander,  
With a burning spear and a horse of air,  
To the wilderness I wander.

—Tom o' Bedlam's Song.

By late accounts from Rotterdam, that city seems to be in a high state of philosophical excitement. Indeed, phenomena have there occurred of a nature so completely unexpected—so entirely novel—so utterly at variance with preconceived opinions—as to leave no doubt on my mind that long ere this all Europe is in an uproar, all physics in a ferment, all reason and astronomy together by the ears.

It appears that on the ——— day of ———, (I am not positive about the date,) a vast crowd of people, for purposes not specifically mentioned, were assembled in the great square of the Exchange in the well-conditioned city of Rotterdam. The day was warm—unusually so for the season—there was hardly a breath of air stirring; and the multitude were in no bad humor at being now and then besprinkled with friendly showers of momentary duration, that fell from large white masses of cloud profusely

distributed about the blue vault of the firmament. Nevertheless, about noon, a slight but remarkable agitation became apparent in the assembly: the clattering of ten thousand tongues succeeded; and, in an instant afterward, ten thousand faces were upturned toward the heavens, ten thousand pipes descended simultaneously from the corners of ten thousand mouths, and a shout, which could be compared to nothing but the roaring of Niagara, resounded long, loudly, and furiously, through all the city and through all the environs of Rotterdam.

The origin of this hubbub soon became sufficiently evident. From behind the huge bulk of one of those sharply defined masses of cloud already mentioned, was seen slowly to emerge into an open area of blue space, a queer, heterogeneous, but apparently solid substance, so oddly shaped, so whimsically put together, as not to be in any manner comprehended, and never to be sufficiently admired, by the host of sturdy burghers who stood open-mouthed below. What could it be? In the name of all the devils in Rotterdam, what could it possibly portend? No one knew; no one could imagine; no one—not even the burgomaster Mynheer Superbus Von Underduk—had the slightest clew by which to unravel the mystery; so, as nothing more reasonable could be done, every one to a man replaced his pipe carefully in the corner of his mouth, and maintaining an eye

steadily upon the phenomenon, puffed, paused, waddled about, and grunted significantly—then waddled back, grunted, paused, and finally—puffed again.

In the meantime, however, lower and still lower toward the goodly city, came the object of so much curiosity, and the cause of so much smoke. In a very few minutes it arrived near enough to be accurately discerned. It appeared to be—yes! it *was* undoubtedly a species of balloon; but surely no *such* balloon had ever been seen in Rotterdam before. For who, let me ask, ever heard of a balloon manufactured entirely of dirty newspapers? No man in Holland certainly; yet here, under the very noses of the people, or rather at some distance *above* their noses was the identical thing in question, and composed, I have it on the best authority, of the precise material which no one had ever before known to be used for a similar purpose. It was an egregious insult to the good sense of the burghers of Rotterdam. As to the shape of the phenomenon, it was even still more reprehensible. Being little or nothing better than a huge fool's-cap turned upside down. And this similitude was regarded as by no means lessened when, upon nearer inspection, the crowd saw a large tassel depending from its apex, and, around the upper rim or base of the cone, a circle of little instruments, resembling sheep-bells, which kept up a continual tinkling to the tune of Betty Martin. But still worse.

—Suspended by blue ribbons to the end of this fantastic machine, there hung, by way of car, an enormous drab beaver hat, with a brim superlatively broad, and a hemispherical crown with a black band and a silver buckle. It is, however, somewhat remarkable that many citizens of Rotterdam swore to having seen the same hat repeatedly before; and indeed the whole assembly seemed to regard it with eyes of familiarity; while the vrow Grettel Pfaall, upon sight of it, uttered an exclamation of joyful surprise, and declared it to be the identical hat of her good man himself. Now this was a circumstance the more to be observed, as Pfaall, with three companions, had actually disappeared from Rotterdam about five years before, in a very sudden and unaccountable manner, and up to the date of this narrative all attempts at obtaining intelligence concerning them had failed. To be sure, some bones which were thought to be human, mixed up with a quantity of odd-looking rubbish, had been lately discovered in a retired situation to the east of the city; and some people went so far as to imagine that in this spot a foul murder had been committed, and that the sufferers were in all probability Hans Pfaall and his associates. But to return.

The balloon (for such no doubt it was) had now descended to within a hundred feet of the earth, allowing the crowd below a sufficiently distinct view of the person of its occupant.

This was in truth a very singular somebody. He could not have been more than two feet in height; but this altitude, little as it was, would have been sufficient to destroy his *equilibrium*, and tilt him over the edge of his tiny car, but for the intervention of a circular rim reaching as high as the breast, and rigged on to the cords of the balloon. The body of the little man was more than proportionally broad, giving to his entire figure a rotundity highly absurd. His feet, of course, could not be seen at all. His hands were enormously large. His hair was gray, and collected into a *queue* behind. His nose was prodigiously long, crooked, and inflammatory; his eyes full, brilliant, and acute; his chin and cheeks, although wrinkled with age, were broad, puffy, and double; but of ears of any kind there was not a semblance to be discovered upon any portion of his head. This odd little gentleman was dressed in a loose surtout of sky-blue satin, with tight breeches to match, fastened with silver buckles at the knees. His vest was of some bright yellow material; a white taffety cap was set jauntily on one side of his head; and, to complete his equipment, a blood-red silk handkerchief enveloped his throat, and fell down, in a dainty manner, upon his bosom, in a fantastic bow-knot of super-eminent dimensions.

Having descended, as I said before, to about one hundred feet from the surface of the earth, the little old gentleman was suddenly seized

with a fit of trepidation, and appeared disinclined to make any nearer approach to *terra firma*. Throwing out, therefore, a quantity of sand from a canvas bag, which he lifted with great difficulty, he became stationary in an instant. He then proceeded, in a hurried and agitated manner, to extract from a side-pocket in his surtout a large morocco pocket-book. This he poised suspiciously in his hand, then eyed it with an air of extreme surprise, and was evidently astonished at its weight. He at length opened it, and drawing therefrom a huge letter sealed with red sealing-wax and tied carefully with red tape, let it fall precisely at the feet of the burgomaster, Superbus Von Underduk. His Excellency stooped to take it up. But the aëronaut, still greatly discomposed, and having apparently no further business to detain him in Rotterdam, began at this moment to make busy preparations for departure; and it being necessary to discharge a portion of ballast to enable him to reascend, the half dozen bags which he threw out, one after another, without taking the trouble to empty their contents, tumbled, every one of them, most unfortunately upon the back of the burgomaster, and rolled him over and over no less than half a dozen times, in the face of every individual in Rotterdam. It is not to be supposed, however, that the great Underduk suffered this impertinence on the part of the little old man to pass off with impunity. It is said, on the contrary,

that during each of his half dozen circumvolutions he emitted no less than half a dozen distinct and furious whiffs from his pipe, to which he held fast the whole time with all his might, and to which he intends holding fast (God willing) until the day of his decease.

In the meantime the balloon arose like a lark, and, soaring far away above the city, at length drifted quietly behind a cloud similar to that from which it had so oddly emerged, and was thus lost forever to the wondering eyes of the good citizens of Rotterdam. All attention was now directed to the letter, the descent of which, and the consequences attending thereupon, had proved so fatally subversive of both person and personal dignity to his Excellency, Von Underduk. That functionary, however, had not failed, during his circumgyratory movements, to bestow a thought upon the important object of securing the epistle, which was seen, upon inspection, to have fallen into the most proper hands, being actually addressed to himself and Professor Rubadub, in their official capacities of President and Vice-President of the Rotterdam College of Astronomy. It was accordingly opened by those dignitaries upon the spot, and found to contain the following extraordinary, and indeed very serious, communication:—

*“To their Excellencies Von Underduk and Rubadub, President and Vice-President of*

*the States' College of Astronomers, in the city of Rotterdam.*

“Your Excellencies may perhaps be able to remember an humble artizan, by name Hans Pfaall, and by occupation a mender of bellows, who, with three others, disappeared from Rotterdam, about five years ago, in a manner which must have been considered unaccountable. If, however, it so please your Excellencies, I, the writer of this communication, am the identical Hans Pfaall himself. It is well known to most of my fellow-citizens, that for the period of forty years I continued to occupy the little square brick building, at the head of the alley called Sauerkraut, in which I resided at the time of my disappearance. My ancestors have also resided therein time out of mind—they, as well as myself, steadily following the respectable and indeed lucrative profession of mending of bellows: for, to speak the truth, until of late years, that the heads of all the people have been set agog with politics, no better business than my own could an honest citizen of Rotterdam either desire or deserve. Credit was good, employment was never wanting, and there was no lack of either money or good-will. But, as I was saying, we soon began to feel the effects of liberty and long speeches, and radicalism, and all that sort of thing. People who were formerly the best customers in the world, had now not a moment of time to think of us at

all. They had as much as they could do to read about the revolutions, and keep up with the march of intellect and the spirit of the age. If a fire wanted fanning, it could readily be fanned with a newspaper; and as the government grew weaker, I have no doubt that leather and iron acquired durability in proportion—for, in a very short time, there was not a pair of bellows in all Rotterdam that ever stood in need of a stitch or required the assistance of a hammer. This was a state of things not to be endured. I soon grew as poor as a rat, and, having a wife and children to provide for, my burdens at length became intolerable, and I spent hour after hour in reflecting upon the most convenient method of putting an end to my life. Duns, in the meantime, left me little leisure for contemplation. My house was literally besieged from morning till night. There were three fellows in particular who worried me beyond endurance, keeping watch continually about my door, and threatening me with the law. Upon these three I vowed the bitterest revenge, if ever I should be so happy as to get them within my clutches; and I believe nothing in the world but the pleasure of this anticipation prevented me from putting my plan of suicide into immediate execution, by blowing my brains out with a blunderbuss. I thought it best, however, to dissemble my wrath, and to treat them with promises and fair words, un-

til, by some good turn of fate, an opportunity of vengeance should be afforded me.

“One day, having given them the slip, and feeling more than usually dejected, I continued for a long time to wander about the most obscure streets without object, until at length I chanced to stumble against the corner of a bookseller’s stall. Seeing a chair close at hand, for the use of customers, I threw myself doggedly into it, and, hardly knowing why, opened the pages of the first volume which came within my reach. It proved to be a small pamphlet treatise on Speculative Astronomy, written either by Professor Encke of Berlin or by a Frenchman of somewhat similar name. I had some little tincture of information on matters of this nature, and soon became more and more absorbed in the contents of the book—reading it actually through twice before I awoke to a recollection of what was passing around me. By this time it began to grow dark, and I directed my steps toward home. But the treatise (in conjunction with a discovery in pneumatics, lately communicated to me as an important secret, by a cousin from Nantz) had made an indelible impression on my mind, and, as I sauntered along the dusky streets, I revolved carefully over in my memory the wild and sometimes unintelligible reasonings of the writer. There are some particular passages which affected my imagination in an extraordinary manner. The longer I meditated upon these,

the more intense grew the interest which had been excited within me. The limited nature of my education in general, and more especially my ignorance on subjects connected with natural philosophy, so far from rendering me diffident of my own ability to comprehend what I had read, or inducing me to mistrust the many vague notions which had arisen in consequence, merely served as a farther stimulus to imagination; and I was vain enough, or perhaps reasonable enough, to doubt whether those crude ideas which, arising in ill-regulated minds, have all the appearance, may not often in effect possess all the force, the reality, and other inherent properties, of instinct or intuition.

“It was late when I reached home, and I went immediately to bed. My mind, however, was too much occupied to sleep, and I lay the whole night buried in meditation. Arising early in the morning, I repaired eagerly to the bookseller’s stall, and laid out what little ready money I possessed, in the purchase of some volumes of Mechanics and Practical Astronomy. Having arrived at home safely with these, I devoted every spare moment to their perusal, and soon made such proficiency in studies of this nature as I thought sufficient for the execution of a certain design with which either the Devil or my better genius had inspired me. In the intervals of this period, I made every endeavor to conciliate the three creditors who

had given me so much annoyance. In this I finally succeeded—partly by selling enough of my household furniture to satisfy a moiety of their claim, and partly by a promise of paying the balance upon completion of a little project which I told them I had in view, and for assistance in which I solicited their services. By these means (for they were ignorant men) I found little difficulty in gaining them over to my purpose.

“Matters being thus arranged, I contrived, by the aid of my wife and with the greatest secrecy and caution, to dispose of what property I had remaining, and to borrow, in small sums, under various pretences, and without giving any attention (I am ashamed to say) to my future means of repayment, no inconsiderable quantity of ready money. With the means thus accruing I proceeded to procure at intervals, cambrie muslin, very fine, in pieces of twelve yards each; twine; a lot of the varnish of caoutchoue; a large and deep basket of wicker-work, made to order; and several other articles necessary in the construction and equipment of a balloon of extraordinary dimensions. This I directed my wife to make up as soon as possible, and gave her all requisite information as to the particular method of proceeding. In the meantime I worked up the twine into network of sufficient dimensions; rigged it with a hoop and the necessary cords; and made purchase of numerous instruments and materials

for experiment in the upper regions of the upper atmosphere. I then took opportunities of conveying by night, to a retired situation east of Rotterdam, five iron-bound casks, to contain about fifty gallons each, and one of a larger size; six tin tubes, three inches in diameter, properly shaped, and ten feet in length; a quantity of a *particular metallic substance, or semi-metal*, which I shall not name, and a dozen demijohns of a *very common acid*. The gas to be formed from these latter materials is a gas never yet generated by any other person than myself—or at least never applied to any similar purpose. I can only venture to say here, that it is a *constituent of azote*, so long considered irreducible, and that its density is about 37.4 times *less than that of hydrogen*. It is tasteless, but not odorless; burns, when pure, with a greenish flame; and is instantaneously fatal to animal life. Its full secret I would make no difficulty in disclosing, but that it of right belongs (as I have before hinted) to a citizen of Nantz, in France, by whom it was conditionally communicated to myself. The same individual submitted to me, without being at all aware of my intentions, a method of constructing balloons from the membrane of a certain animal, through which substance any escape of gas was nearly an impossibility. I found it however altogether too expensive, and was not sure, upon the whole, whether cambric muslin with a coating of gum caoutchouc, was

not equally as good. I mention this circumstance, because I think it probable that hereafter the individual in question may attempt a balloon ascension with the novel gas and material I have spoken of, and I do not wish to deprive him of the honor of a very singular invention.

“On the spot which I intended each of the smaller casks to occupy respectively during the inflation of the balloon, I privately dug a small hole; the holes forming in this manner a circle twenty-five feet in diameter. In the centre of this circle, being the station designed for the large cask, I also dug a hole of greater depth. In each of the five smaller holes, I deposited a canister containing fifty pounds, and in the larger one a keg holding one hundred and fifty pounds, of cannon powder. These—the keg and canisters—I connected in a proper manner with covered trains; and having let into one of the canisters the end of about four feet of slow-match, I covered up the hole, and placed the cask over it, leaving the other end of the match protruding about an inch, and barely visible beyond the cask. I then filled up the remaining holes, and placed the barrels over them in their destined situation!

“Besides the articles above enumerated, I conveyed to the *dépôt*, and there secreted, one of M. Grimm’s improvements upon the apparatus for condensation of the atmospheric air. I found this machine, however, to require

considerable alteration before it could be adapted to the purposes to which I intended making it applicable. But, with severe labor and unremitting perseverance, I at length met with entire success in all my preparations. My balloon was soon completed. It would contain more than forty thousand cubic feet of gas; would take me up easily, I calculated, with all my implements, and, if I managed rightly, with one hundred and seventy-five pounds of ballast into the bargain. It had received three coats of varnish, and I found the cambric muslin to answer all the purposes of silk itself, being quite as strong and a good deal less expensive.

“ Every thing being now ready, I exacted from my wife an oath of secrecy in relation to all my actions from the day of my first visit to the bookseller’s stall; and promising, on my part, to return as soon as circumstances would permit, I gave her what little money I had left, and bade her farewell. Indeed I had no fear on her account. She was what people call a notable woman, and could manage matters in the world without my assistance. I believe, to tell the truth, she always looked upon me as an idle body—a mere make-weight—good for nothing but building castles in the air,—and was rather glad to get rid of me. It was a dark night when I bade her good-bye, and taking with me, as *aides-de-camp*, the three creditors who had given me so much trouble, we carried the balloon, with the car and accoutrements, by

a roundabout way, to the station where the other articles were deposited. We there found them all unmolested, and I proceeded immediately to business.

"It was the first of April. The night, as I said before, was dark; there was not a star to be seen; and a drizzling rain, falling at intervals, rendered us very uncomfortable. But my chief anxiety was concerning the balloon, which, in spite of the varnish with which it was defended, began to grow rather heavy with the moisture; the powder also was liable to damage. I therefore kept my three duns working with great dilligence, pounding down ice around the central cask, and stirring the acid in the others. They did not cease, however, importuning me with questions as to what I intended to do with all this apparatus, and expressed much dissatisfaction at the terrible labor I made them undergo. They could not perceive (so they said) what good was likely to result from their getting wet to the skin, merely to take a part in such horrible incantations. I began to get uneasy, and worked away with all my might, for I verily believe the idiots supposed that I had entered into a compact with the Devil, and that, in short, what I was now doing was nothing better than it should be. I was, therefore, in great fear of their leaving me altogether. I contrived, however, to pacify them by promises of payment of all scores in full, as soon as I could bring the present business to a termina-

tion. To these speeches they gave, of course, their own interpretation; fancying, no doubt, that at all events I should come into possession of vast quantities of ready money; and provided I paid them all I owed, and a trifle more, in consideration of their services, I dare say they cared very little what became of either my soul or my carcass.

“In about four hours and a half I found the balloon sufficiently inflated. I attached the car, therefore, and put all my implements in it: a telescope, a barometer, with some important modifications; a thermometer; an electrometer; a compass; a magnetic needle; a seconds watch; a bell; a speaking-trumpet, etc., etc., etc.; also a globe of glass, exhausted of air, and carefully closed with a stopper,—not forgetting the condensing apparatus, some unslacked lime, a stick of sealing-wax, a copious supply of water, and a large quantity of provisions, such as pemmican, in which much nutriment is contained in comparatively little bulk. I also secured in the car a pair of pigeons and a cat.

“It was now nearly daybreak, and I thought it high time to take my departure. Dropping a lighted cigar on the ground, as if by accident, I took the opportunity, in stooping to pick it up, of igniting privately the piece of slow-match, the end of which, as I said before, protruded a little beyond the lower rim of one of the smaller casks. This manœuvre was totally unperceived

on the part of the three duns; and, jumping into the car, I immediately cut the single cord which held me to the earth, and was pleased to find that I shot upward with inconceivable rapidity, carrying with all ease one hundred and seventy-five pounds of leaden ballast, and able to have carried up as many more. As I left the earth, the barometer stood at thirty inches, and the centigrade thermometer at 19°.

“Scarcely, however, had I attained the height of fifty yards, when, roaring and rumbling up after me in the most tumultuous and terrible manner, came so dense a hurricane of fire, and gravel, and burning wood, and blazing metal, and mangled limbs, that my very heart sunk within me, and I fell down in the bottom of the car, trembling with terror. Indeed, I now perceived that I had entirely overdone the business, and that the main consequences of the shock were yet to be experienced. Accordingly, in less than a second, I felt all the blood in my body rushing to my temples, and immediately thereupon, a concussion, which I shall never forget, burst abruptly through the night, and seemed to rip the very firmament asunder. When I afterward had time for reflection, I did not fail to attribute the extreme violence of the explosion, as regarded myself, to its proper cause—my situation directly above it, and in the line of its greatest power. But at the time, I thought only of preserving my life. The balloon at first collapsed, then furiously expanded,

then whirled round and round with sickening velocity, and finally, reeling and staggering like a drunken man, hurled me over the rim of the car, and left me dangling, at a terrific height, with my head downward, and my face outward, by a piece of slender cord about three feet in length, which hung accidentally through a crevice near the bottom of the wicker-work, and in which, as I fell, my left foot became most providentially entangled. It is impossible—utterly impossible—to form any adequate idea of the horror of my situation. I gasped convulsively for breath—a shudder resembling a fit of the ague agitated every nerve and muscle in my frame—I felt my eyes starting from their sockets—a horrible nausea overwhelmed me—and at length I lost all consciousness in a swoon.

“How long I remained in this state it is impossible to say. It must, however, have been no inconsiderable time, for when I partially recovered the sense of existence, I found the day breaking, the balloon at a prodigious height over a wilderness of ocean, and not a trace of land to be discovered far and wide within the limits of the vast horizon. My sensations, however, upon thus recovering, were by no means so replete with agony as might have been anticipated. Indeed, there was much of madness in the calm survey which I began to take of my situation. I drew up to my eyes each of my hands, one after the other, and wondered what occurrence could have given

rise to the swelling of the veins, and the horrible blackness of the finger-nails. I afterward carefully examined my head, shaking it repeatedly, and feeling it with minute attention, until I succeeded in satisfying myself that it was not, as I had more than half suspected, larger than my balloon. Then, in a knowing manner, I felt in both breeches pockets, and, missing therefrom a set of tablets and a tooth-pick case, endeavored to account for their disappearance, and not being able to do so, felt inexpressibly chagrined. It now occurred to me that I suffered great uneasiness in the joint of my left ankle, and a dim consciousness of my situation began to glimmer through my mind. But, strange to say! I was neither astonished nor horror-stricken. If I felt any emotion at all, it was a kind of chuckling satisfaction at the cleverness I was about to display in extricating myself from this dilemma; and never, for a moment, did I look upon my ultimate safety as a question susceptible of doubt. For a few minutes I remained wrapped in the profoundest meditation. I have a distinct recollection of frequently compressing my lips, putting my fore-finger to the side of my nose, and making use of other gesticulations and grimaces common to men who, at ease in their arm-chairs, meditate upon matters of intricacy or importance. Having, as I thought, sufficiently collected my ideas, I now, with great caution and deliberation, put my hands behind

my back, and unfastened the large iron buckle which belonged to the waistband of my pantaloons. This buckle had three teeth, which, being somewhat rusty, turned with great difficulty on their axis. I brought them, however, after some trouble, at right angles to the body of the buckle, and was glad to find them remain firm in that position. Holding within my teeth the instrument thus obtained, I now proceeded to untie the knot of my cravat. I had to rest several times before I could accomplish this manœuvre; but it was at length accomplished. To one end of the cravat I then made fast the buckle, and the other end I tied, for greater security, tightly around my wrist. Drawing now my body upward, with a prodigious exertion of muscular force, I succeeded, at the very first trial, in throwing the buckle over the car, and entangling it, as I had anticipated, in the circular rim of the wicker-work.

“My body was now inclined toward the side of the car, at an angle of about forty-five degrees; but it must not be understood that I was therefore only forty-five degrees below the perpendicular. So far from it, I still lay nearly level with the plane of the horizon; for the change of situation which I had acquired, had forced the bottom of the car considerably outward from my position, which was accordingly one of the most imminent peril. It should be remembered, however, that when I fell, in the first instance, from the car, if I had fallen with

my face turned toward the balloon, instead of turned outwardly from it, as it actually was; or if, in the second place, the cord by which I was suspended had chanced to hang over the upper edge, instead of through a crevice near the bottom of the car,—I say it may readily be conceived that, in either of these supposed cases, I should have been unable to accomplish even as much as I had now accomplished, and the disclosures now made would have been utterly lost to posterity. I had therefore every reason to be grateful; although, in point of fact, I was still too stupid to be any thing at all, and hung for, perhaps, a quarter of an hour, in that extraordinary manner, without making the slightest farther exertion, and in a singularly tranquil state of idiotic enjoyment. But this feeling did not fail to die rapidly away, and thereunto succeeded horror, and dismay, and a sense of utter helplessness and ruin. In fact, the blood so long accumulating in the vessels of my head and throat, and which had hitherto buoyed up my spirits with delirium, had now begun to retire within their proper channels, and the distinctness which was thus added to my perception of the danger, merely served to deprive me of the self-possession and courage to encounter it. But this weakness was, luckily for me, of no very long duration. In good time came to my rescue the spirit of despair, and, with frantic cries and struggles, I jerked my way bodily upward, till at length, clutching

with a vise-like grip the long-desired rim, I writhed my person over it, and fell headlong and shuddering within the car.

"It was not until some time afterward that I recovered myself sufficiently to attend to the ordinary cares of the balloon. I then, however, examined it with attention, and found it, to my great relief, uninjured. My implements were all safe, and, fortunately, I had lost neither ballast nor provisions. Indeed, I had so well secured them in their places, that such an accident was entirely out of the question. Looking at my watch, I found it six o'clock. I was still rapidly ascending, and the barometer gave a present altitude of three and three-quarter miles. Immediately beneath me in the ocean, lay a small black object, slightly oblong in shape, seemingly about the size of a domino, and in every respect bearing a great resemblance to one of those toys. Bringing my telescope to bear upon it, I plainly discerned it to be a British ninety-four-gun ship, close-hauled, and pitching heavily in the sea with her head to the W. S. W. Besides this ship, I saw nothing but the ocean and the sky, and the sun, which had long arisen.

"It is now high time that I should explain to your Excellencies the object of my voyage. Your Excellencies will bear in mind that distressed circumstances in Rotterdam had at length driven me to the resolution of committing suicide. It was not, however, that to life

itself I had any positive disgust, but that I was harassed beyond endurance by the adventitious miseries attending my situation. In this state of mind, wishing to live, yet wearied with life, the treatise at the stall of the bookseller, backed by the opportune discovery of my cousin of Nantz, opened a resource to my imagination. I then finally made up my mind. I determined to depart, yet live—to leave the world, yet continue to exist—in short, to drop enigmas, I resolved, let what would ensue, to force a passage, if I could, *to the moon*. Now, lest I should be supposed more of a madman than I actually am, I will detail, as well as I am able, the considerations which led me to believe that an achievement of this nature; although without doubt difficult, and full of danger, was not absolutely, to a bold spirit, beyond the confines of the possible.

“The moon’s actual distance from the earth was the first thing to be attended to. Now, the mean or average interval between the *centres* of the two planets is 59.9643 of the earth’s equatorial *radii*, or only about 237,000 miles. I say the mean or average interval, but it must be borne in mind that the form of the moon’s orbit being an ellipse of eccentricity amounting to no less than 0.05484 of the major semi-axis of the ellipse itself, and the earth’s centre being situated in its focus, if I could, in any manner, contrive to meet the moon in its perigee, the above mentioned distance would be ma-

terially diminished. But, to say nothing at present of this possibility, it was very certain that, at all events, from the 237,000 miles I would have to deduct the *radius* of the earth, say 4,000, and the radius of the moon, say 1,080, in all 5,080, leaving an actual interval to be traversed, under average circumstances, of 231,920 miles. Now this, I reflected, was no very extraordinary distance. Travelling on the land has been repeatedly accomplished at the rate of sixty miles per hour; and indeed a much greater speed may be anticipated. But even at this velocity, it would take me no more than 161 days to reach the surface of the moon. There were, however, many particulars inducing me to believe that my average rate of travelling might possibly very much exceed that of sixty miles per hour, and, as these considerations did not fail to make a deep impression upon my mind, I will mention them more fully hereafter.

“The next point to be regarded was one of far greater importance. From indications afforded by the barometer, we find that, in ascensions from the surface of the earth we have, at the height of 1,000 feet, left below us about one-thirtieth of the entire mass of atmospheric air; that at 10,600 we have ascended through nearly one-third; and that at 18,000, which is not far from the elevation of Coto-paxi, we have surmounted one-half the material, or, at all events, one-half the *ponderable*, body

of air incumbent upon our globe. It is also calculated that at an altitude not exceeding the hundredth part of the earth's diameter—that is, not exceeding eighty miles—the rarefaction would be so excessive that animal life could in no manner be sustained, and, moreover, that the most delicate means we possess of ascertaining the presence of the atmosphere would be inadequate to assure us of its existence. But I did not fail to perceive that these latter calculations are founded altogether on our experimental knowledge of the properties of air, and the mechanical laws regulating its dilation and compression, in what may be called, comparatively speaking, *the immediate vicinity* of the earth itself; and, at the same time, it is taken for granted that animal life is and must be essentially *incapable of modification* at any given unattainable distance from the surface. Now, all such reasoning and from such *data* must, of course, be simply analogical. The greatest height ever reached by man was that of 25,000 feet, attained in the aëronautic expedition of Messieurs Gay-Lussac and Biot. This is a moderate altitude, even when compared with the eighty miles in question; and I could not help thinking that the subject admitted room for doubt and great latitude for speculation.

“But, in point of fact, an ascension being made to any given altitude, the ponderable quantity of air surmounted in any *farther* ascension is by no means in proportion to the ad-

ditional height ascended (as may be plainly seen from what has been stated before), but in a *ratio* constantly decreasing. It is therefore evident that, ascend as high as we may, we cannot, literally speaking, arrive at a limit beyond which *no* atmosphere is to be found. It *must exist*, I argued; although it *may* exist in a state of infinite rarefaction.

“On the other hand, I was aware that arguments have not been wanting to prove the existence of a real and definite limit to the atmosphere, beyond which there is absolutely no air whatsoever. But a circumstance which has been left out of view by those who contend for such a limit, seemed to me, although no positive refutation of their creed, still a point worthy very serious investigation. On comparing the intervals between the successive arrivals of Encke’s comet at its perihelion, after giving credit, in the most exact manner, for all the disturbances due to the attractions of the planets, it appears that the periods are gradually diminishing; that is to say, the major axis of the comet’s ellipse is growing shorter, in a slow but perfectly regular decrease. Now, this is precisely what ought to be the case, if we suppose a resistance experienced from the comet from an extremely *rare ethereal medium* pervading the regions of its orbit. For it is evident that such a medium must, in retarding the comet’s velocity, increase its centripetal, by weakening its centrifugal, force. In other

words, the sun's attraction would be constantly attaining greater power, and the comet would be drawn nearer at every revolution. Indeed, there is no other way of accounting for the variation in question. But again:—The real diameter of the same comet's nebulosity is observed to contract rapidly as it approaches the sun, and dilate with equal rapidity in its departure towards its aphelion. Was I not justifiable in supposing, with M. Valz, that this apparent condensation of volume has its origin in the compression of the same ethereal medium I have spoken of before, and which is dense in proportion to its vicinity to the sun? The lenticular-shaped phenomenon, also called the zodiacal light, was a matter worthy of attention. This radiance, so apparent in the tropics, and which cannot be mistaken for any meteoric lustre, extends from the horizon obliquely upward, and follows generally the direction of the sun's equator. It appeared to me evidently in the nature of a rare atmosphere extending from the sun outward, beyond the orbit of Venus at least, and I believed indefinitely farther.\* Indeed, this medium I could not suppose confined to the path of the comet's ellipse, or to the immediate neighborhood of the sun. It was easy, on the contrary, to imagine it pervading the entire regions of our planetary system, condensed into what we call atmosphere

\* The zodiacal light is probably what the ancients called *Trabes*. *Emicant Trabes quos docos vocant.*—Pliny lib. 2, p. 26.

at the planets themselves, and perhaps at some of them modified by considerations purely geological; that is to say, modified, or varied in its proportions (or absolute nature) by matters volatilized from the respective orbs.

“Having adopted this view of the subject, I had little farther hesitation. Granting that on my passage I should meet with atmosphere *essentially* the same as at the surface of the earth, I conceived that, by means of the very ingenious apparatus of M. Grimm, I should readily be enabled to condense it in sufficient quantity for the purposes of respiration. This would remove the chief obstacle in a journey to the moon. I had indeed spent some money and great labor in adapting the apparatus to the object intended, and confidently looked forward to its successful application, if I could manage to complete the voyage within any reasonable period. This brings me back to the *rate* at which it would be possible to travel.

“It is true that balloons, in the first stage of their ascensions from the earth, are known to rise with a velocity comparatively moderate. Now, the power of elevation lies altogether in the superior gravity of the atmospheric air compared with the gas in the balloon; and, at first sight, it does not appear probable that, as the balloon acquires altitude, and consequently arrives successively in atmospheric *strata* of densities rapidly diminishing—I say, it does not appear at all reasonable that, in this its

progress upward, the original velocity should be accelerated. On the other hand, I was not aware that, in any recorded ascension, a *diminution* had been proved to be apparent in the absolute rate of ascent; although such should have been the case, if on account of nothing else, on account of the escape of gas through balloons ill-constructed, and varnished with no better material than the ordinary varnish. It seemed, therefore, that the effect of such escape was only sufficient to counterbalance the effect of the acceleration attained in the diminishing of the balloon's distance from the gravitating centre. I now considered that, provided in my passage I found the *medium* I had imagined, and provided that it should prove to be *essentially* what we denominate atmospheric air, it could make comparatively little difference at what extreme state of rarefaction I should discover it—that is to say, in regard to my power of ascending—for the gas in the balloon would not only be itself subject to similar rarefaction (in proportion to the occurrence of which, I could suffer an escape of so much as would be requisite to prevent explosion), but, *being what it was*, would, at all events, continue specifically lighter than any compound whatever of mere nitrogen and oxygen. Thus there was a chance—in fact there was a strong probability—that, *at no epoch of my ascent, I should reach a point where the united weights of my immense balloon, the inconceivably rare gas within it, the*

*car, and its contents, should equal the weight of the mass of the surrounding atmosphere displaced;* and this will be readily understood as the sole condition upon which my upward flight would be arrested. But, if this point were even attained, I could dispense with ballast and other weight to the amount of nearly three hundred pounds. In the meantime, the force of gravitation would be constantly diminishing, in proportion to the squares of the distances, and so, with a velocity prodigiously accelerating, I should at length arrive in those distant regions where the force of the earth's attraction would be superseded by that of the moon.

“There was another difficulty, however, which occasioned me some little disquietude. It has been observed, that, in balloon ascensions to any considerable height, besides the pain attending respiration, great uneasiness is experienced about the head and body, often accompanied with bleeding at the nose, and other symptoms of an alarming kind, and growing more and more inconvenient in proportion to the altitude attained.\* This was a reflection of a nature somewhat startling. Was it not probable that these symptoms would increase until terminated by death itself? I finally thought not. Their origin was to be looked

\* Since the original publication of Hans Pfaall, I find that Mr. Green, of Nassau-balloon notoriety, and other late aeronauts, deny the assertions of Humboldt, in this respect, and speak of a *decreasing* inconvenience,—precisely in accordance with the theory here urged.

for in the progressive removal of the *customary* atmospheric pressure upon the surface of the body, and consequent distention of the superficial blood-vessels—not in any positive disorganization of the animal system, as in the case of difficulty in breathing, where the atmospheric density is *chemically insufficient* for the due renovation of blood in a verticle of the heart. Unless for default of this renovation, I could see no reason, therefore, why life could not be sustained even in a *vacuum*; for the expansion and compression of chest, commonly called breathing, is action purely muscular, and the *cause*, not the *effect*, of respiration. In a word, I conceived that, as the body should become habituated to the want of atmospheric pressure, the sensations of pain would gradually diminish—and to endure them while they continued, I relied with confidence upon the iron hardihood of my constitution.

“Thus, may it please your Excellencies, I have detailed some, though by no means all, the considerations which led me to form the project of a lunar voyage. I shall now proceed to lay before you the result of an attempt so apparently audacious in conception, and, at all events, so utterly unparalleled in the annals of mankind.

“Having attained the altitude before mentioned—that is to say three miles and three quarters—I threw out from the car a quantity of feathers, and found that I still ascended with

sufficient rapidity; there was, therefore, no necessity for discharging any ballast. I was glad of this, for I wished to retain with me as much weight as I could carry, for the obvious reason that I could not be positive either about the gravitation or the atmospheric density of the moon. I as yet suffered no bodily inconvenience, breathing with great freedom, and feeling no pain whatever in the head. The cat was lying very demurely upon my coat, which I had taken off, and eyeing the pigeons with an air of *nonchalance*. These latter being tied by the leg, to prevent their escape, were busily employed in picking up some grains of rice scattered for them in the bottom of the car.

“At twenty minutes past six o'clock, the barometer showed an elevation of 26,400 feet, or five miles to a fraction. The prospect seemed unbounded. Indeed, it is very easily calculated by means of spherical geometry, how great an extent of the earth's area I beheld. The convex surface of any segment of a sphere is, to the entire surface of the sphere itself, as the versed sine of the segment to the diameter of the sphere. Now, in my case, the versed sine—that is to say, the *thickness* of the segment beneath me—was about equal to my elevation, or the elevation of the point of sight above the surface. ‘As five miles, then, to eight thousand,’ would express the proportion of the earth's area seen by me. In other words, I beheld as much as a sixteen-hundredth part of

the whole surface of the globe. The sea appeared unruffled as a mirror, although, by means of the telescope, I could perceive it to be in a state of violent agitation. The ship was no longer visible, having drifted away, apparently to the eastward. I now began to experience, at intervals, severe pain in the head, especially about the ears—still, however, breathing with tolerable freedom. The cat and pigeons seemed to suffer no inconvenience whatsoever.

“At twenty minutes before seven, the balloon entered a long series of dense cloud, which put me to great trouble, by damaging my condensing apparatus, and wetting me to the skin; this was, to be sure, a singular *recontre*, for I had not believed it possible that a cloud of this nature could be sustained at so great an elevation. I thought it best, however, to throw out two five-pound pieces of ballast, reserving still a weight of one hundred and sixty-five pounds. Upon so doing, I soon rose above the difficulty, and perceived immediately, that I had obtained a great increase in my rate of ascent. In a few seconds after my leaving the cloud, a flash of vivid lightning shot from one end of it to the other, and caused it to kindle up, throughout its vast extent, like a mass of ignited charcoal. This, it must be remembered, was in the broad light of day. No fancy may picture the sublimity which might have been exhibited by a similar phenomenon taking place amid the

darkness of the night. Hell itself might have been found a fitting image. Even as it was, my hair stood on end, while I gazed afar down within the yawning abysses, letting imagination descend, and stalk about in the strange vaulted halls, and ruddy gulfs, and red ghastly chasms of the hideous and unfathomable fire. I had indeed made a narrow escape. Had the balloon remained a very short while longer within the cloud—that is to say, had not the inconvenience of getting wet, determined me to discharge the ballast—my destruction might, and probably would, have been the consequence. Such perils, although little considered, are perhaps the greatest which must be encountered in balloons. I had by this time, however, attained too great an elevation to be any longer uneasy on this head.

“I was now rising rapidly, and by seven o’clock the barometer indicated an altitude of no less than nine miles and a half. I began to find great difficulty in drawing my breath. My head, too, was excessively painful; and, having felt for some time a moisture about my cheeks, I at length discovered it to be blood, which was oozing quite fast from the drums of my ears. My eyes, also, gave me great uneasiness. Upon passing the hand over them they seemed to have protruded from their sockets in no inconsiderable degree; and all objects in the car, and even the balloon itself, appeared distorted to my vision. These symptoms were

more than I had expected, and occasioned me some alarm. At this juncture, very imprudently, and without consideration, I threw out from the car three five-pound pieces of ballast. The accelerated rate of ascent thus obtained, carried me too rapidly, and without sufficient gradation, into a highly rarefied *stratum* of the atmosphere, and the result had nearly proved fatal to my expedition and to myself. I was suddenly seized with a spasm which lasted for more than five minutes, and even when this, in a measure, ceased, I could catch my breath only at long intervals, and in a gasping manner,—bleeding all the while copiously at the nose and ears, and even slightly at the eyes. The pigeons appeared distressed in the extreme, and struggled to escape; while the cat mewed piteously, and, with her tongue hanging out of her mouth, staggered to and fro in the car as if under the influence of poison. I now too late discovered the great rashness of which I had been guilty in discharging the ballast, and my agitation was excessive. I anticipated nothing less than death, and death in a few minutes. The physical suffering I underwent contributed also to render me nearly incapable of making any exertion for the preservation of my life. I had, indeed, little power of reflection left, and the violence of the pain in my head seemed to be greatly on the increase. Thus I found that my senses would shortly give way altogether, and I had already clutched one of the valve

ropes with the view of attempting a descent, when the recollection of the trick I had played the three creditors, and the possible consequences to myself, should I return, operated to deter me for the moment. I lay down in the bottom of the car, and endeavoured to collect my faculties. In this I so far succeeded as to determine upon the experiment of losing blood. Having no lancet, however, I was constrained to perform the operation in the best manner I was able, and finally succeeded in opening a vein in my left arm, with the blade of my penknife. The blood had hardly commenced flowing when I experienced a sensible relief, and by the time I had lost about half a moderate basinful, most of the worst symptoms had abandoned me entirely. I nevertheless did not think it expedient to attempt getting on my feet immediately; but, having tied up my arm as well as I could, I lay still for about a quarter of an hour. At the end of this time I arose, and found myself freer from absolute *pain* of any kind than I had been during the last hour and a quarter of my ascension. The difficulty of breathing, however, was diminished in a very slight degree, and I found that it would soon be positively necessary to make use of my condenser. In the meantime, looking toward the cat, who was again snugly stowed away upon my coat, I discovered to my infinite surprise, that she had taken the opportunity of my indisposition to bring into light a litter of three little

kittens. This was an addition to the number of passengers on my part altogether unexpected; but I was pleased at the occurrence. It would afford me a chance of bringing to a kind of test the truth of a surmise, which, more than anything else, had influenced me in attempting this ascension. I had imagined that the *habitual* endurance of the atmospheric pressure at the surface of the earth was the cause, or nearly so, of the pain attending animal existence at a distance above the surface. Should the kittens be found to suffer uneasiness *in an equal degree with their mother*, I must consider my theory in fault, but a failure to do so I should look upon as a strong confirmation of my idea.

“By eight o’clock I had actually attained an elevation of seventeen miles above the surface of the earth. Thus it seemed to me evident that my rate of ascent was not only on the increase, but that the progression would have been apparent in a slight degree even had I not discharged the ballast which I did. The pains in my head and ears returned, at intervals, with violence, and I still continued to bleed occasionally at the nose; but, upon the whole, I suffered much less than might have been expected. I breathed, however, at every moment, with more and more difficulty, and each inhalation was attended with a troublesome spasmodic action of the chest. I now unpacked the

condensing apparatus, and got it ready for immediate use.

“The view of the earth, at this period of my ascension, was beautiful indeed. To the westward, the northward, and the southward, as far as I could see, lay a boundless sheet of apparently unruffled ocean, which every moment gained a deeper and deeper tint of blue. At a vast distance to the eastward, although perfectly discernible, extended the islands of Great Britain, the entire Atlantic coasts of France and Spain, with a small portion of the northern part of the continent of Africa. Of individual edifices not a trace could be discovered, and the proudest cities of mankind had utterly faded away from the face of the earth.

“What mainly astonished me, in the appearance of things below, was the seeming concavity of the surface of the globe. I had, thoughtlessly enough, expected to see its real *convexity* become evident as I ascended; but a very little reflection sufficed to explain the discrepancy. A line dropped from my position perpendicularly to the earth, would have formed the perpendicular of a right-angled triangle, of which the base would have extended from the right-angle to the horizon, and the hypotenuse from the horizon to my position. But my height was little or nothing in comparison with my prospect. In other words, the base and hypotenuse of the supposed triangle would, in my case, have been so long, when compared to the

perpendicular, that the two former might have been regarded as nearly parallel. In this manner the horizon of the aëronaut appears always to be *upon a level* with the car. But as the point immediately beneath him seems, and is, at a great distance below him, it seems, of course, also at a great distance below the horizon. Hence the impression of concavity; and this impression must remain, until the elevation shall bear so great a proportion to the prospect, that the apparent parallelism of the base and hypotenuse disappears.

“The pigeons about this time seeming to undergo much suffering, I determined upon giving them their liberty. I first untied one of them, a beautiful gray-mottled pigeon, and placed him upon the rim of the wicker-work. He appeared extremely uneasy, looking anxiously around him, fluttering his wings, and making a loud cooing noise, but could not be persuaded to trust himself from the car. I took him up at last, and threw him to about half a dozen yards from the balloon. He made, however, no attempt to descend as I had expected, but struggled with great vehemence to get back, uttering at the same time very shrill and piercing cries. He at length succeeded in regaining his former station on the rim, but had hardly done so when his head dropped upon his breast, and he fell dead within the car. The other one did not prove so unfortunate. To prevent his following the example of his com-

panion, and accomplishing a return, I threw him downward with all my force, and was pleased to find him continue his descent, with great velocity, making use of his wings with ease, and in a perfectly natural manner. In a very short time he was out of sight, and I have no doubt he reached home in safety. Puss, who seemed in a great measure recovered from her illness, now made a hearty meal of the dead bird, and then went to sleep with much apparent satisfaction. Her kittens were quite lively, and so far evinced not the slightest sign of any uneasiness.

“ At a quarter past eight, being no longer able to draw breath without the most intolerable pain, I proceeded forthwith to adjust around the car the apparatus belonging to the condenser. This apparatus will require some little explanation, and your Excellencies will please to bear in mind that my object, in the first place, was to surround myself and car entirely with a barricade against the highly rarefied atmosphere in which I was existing, with the intention of introducing within this barricade, by means of my condenser, a quantity of this same atmosphere sufficiently condensed for the purposes of respiration. With this object in view I had prepared a very strong, perfectly air-tight, but flexible gum-elastic bag. In this bag, which was of sufficient dimensions, the entire car was in a manner placed. That is to say, it (the bag) was drawn over the whole

bottom of the car, up its sides, and so on, along the outside of the ropes, to the upper rim or hoop where the net-work is attached. Having pulled the bag up in this way, and formed a complete enclosure on all sides, and at bottom, it was now necessary to fasten up its top or mouth, by passing its material over the hoop of the net-work,—in other words, between the net-work and the hoop. But if the net-work were separated from the hoop to admit this passage, what was to sustain the car in the meantime? Now the net-work was not permanently fastened to the hoop, but attached by a series of running loops or nooses. I therefore undid only a few of these loops at one time, leaving the car suspended by the remainder. Having thus inserted a portion of the cloth forming the upper part of the bag, I refastened the loops—not to the hoop, for that would have been impossible, since the cloth now intervened,—but to a series of large buttons, affixed to the cloth itself, about three feet below the mouth of the bag; the intervals between the buttons having been made to correspond to the intervals between the loops. This done, a few more of the loops were unfastened from the rim, a farther portion of the cloth introduced, and the disengaged loops then connected with their proper buttons. In this way it was possible to insert the whole upper part of the bag between the net-work and the hoop. It is evident that the hoop would now drop down within the car,

while the whole weight of the car itself, with all its contents, would be held up merely by the strength of the buttons. This, at first sight, would seem an inadequate dependence; but it was by no means so, for the buttons were not only very strong in themselves, but so close together that a very slight portion of the whole weight was supported by any one of them. Indeed, had the car and contents been three times heavier than they were, I should not have been at all uneasy. I now raised up the hoop again within the covering of gum-elastic, and propped it at nearly its former height by means of three light poles prepared for the occasion. This was done, of course, to keep the bag distended at the top, and to preserve the lower part of the net-work in its proper situation. All that now remained was to fasten up the mouth of the enclosure; and this was readily accomplished by gathering the folds of the material together, and twisting them up very tightly on the inside by means of a kind of stationary *tourniquet*.

“In the sides of the covering thus adjusted round the car, had been inserted three circular panes of thick but clear glass, through which I could see without difficulty around me in every horizontal direction. In that portion of the cloth forming the bottom, was likewise, a fourth window, of the same kind, and corresponding with a small aperture in the floor of the car itself. This enabled me to see perpendicularly

down, but having found it impossible to place any similar contrivance overhead, on account of the peculiar manner of closing up the opening there, and the consequent wrinkles in the cloth, I could expect to see no objects situated directly in my zenith. This, of course, was a matter of little consequence; for, had I even been able to place a window at top, the balloon itself would have prevented my making any use of it.

“About a foot below one of the side windows was a circular opening, three inches in diameter, and fitted with a brass rim adapted in its inner edge to the windings of a screw. In this rim was screwed the large tube of the condenser, the body of the machine being, of course, within the chamber of gum-elastic. Through this tube a quantity of the rare atmosphere circumjacent being drawn by means of a *vacuum* created in the body of the machine, was thence discharged, in a state of condensation, to mingle with the thin air already in the chamber. This operation being repeated several times, at length filled the chamber with atmosphere proper for all the purposes of respiration; but in so confined a space it would, in a short time, necessarily become foul, and unfit for use from frequent contact with the lungs. It was then ejected by a small valve at the bottom of the car—the dense air readily sinking into the thinner atmosphere below. To avoid the inconvenience of making a total *vacuum* at

any moment within the chamber, this purification was never accomplished all at once, but in a gradual manner,—the valve being opened only for a few seconds, then closed again, until one or two strokes from the pump of the condenser had supplied the place of the atmosphere ejected. For the sake of experiment I had put the cat and kittens in a small basket, and suspended it outside the car to a button at the bottom, close by the valve, through which I could feed them at any moment when necessary. I did this at some little risk, and before closing the mouth of the chamber, by reaching under the car with one of the poles before mentioned to which a hook had been attached. As soon as dense air was admitted in the chamber, the hoop and poles became unnecessary; the expansion of the enclosed atmosphere powerfully distending the gum-elastic.

“By the time I had fully completed these arrangements and filled the chamber as explained, it wanted only ten minutes of nine o’clock. During the whole period of my being thus employed, I endured the most terrible distress from difficulty of respiration, and bitterly did I repent the negligence or rather fool-hardiness, of which I had been guilty, of putting off to the last moment a matter of so much importance. But having at length accomplished it, I soon began to reap the benefit of my invention. Once again I breathed with perfect freedom and ease—and indeed why should I not? I

was also agreeably surprised to find myself, in a great measure, relieved from the violent pains which had hitherto tormented me. A slight headache, accompanied with a sensation of fullness or distention about the wrists, the ankles, and the throat, was nearly all of which I had now to complain. Thus it seemed evident that a greater part of the uneasiness attending the removal of atmospheric pressure had actually *worn off*, as I had expected, and that much of the pain endured for the last two hours should have been attributed altogether to the effects of a deficient respiration.

“At twenty minutes before nine o’clock—that is to say, a short time prior to my closing up the mouth of the chamber, the mercury attained its limit, or ran down, in the barometer, which, as I mentioned before, was one of an extended construction. It then indicated an altitude on my part of 132,000 feet, or five-and-twenty miles, and I consequently surveyed at that time an extent of the earth’s area amounting to no less than the three-hundred-and-twentieth part of its entire superficies. At nine o’clock I had again lost sight of land to the eastward, but not before I became aware that the balloon was drifting rapidly to the N. N. W. The ocean beneath me still retained its apparent concavity, although my view was often interrupted by the masses of cloud which floated to and fro.

“At half past nine I tried the experiment of

throwing out a handful of feathers through the valve. They did not float as I had expected; but dropped down perpendicularly, like a bullet, *en masse*, and with the greatest velocity,—being out of sight in a very few seconds. I did not at first know what to make of this extraordinary phenomenon; not being able to believe that my rate of ascent had, of a sudden, met with so prodigious an acceleration. But it soon occurred to me that the atmosphere was now far too rare to sustain even the feathers; that they actually fell, as they appear to do, with great rapidity; and that I had been surprised by the united velocities of their descent and my own elevation.

“By ten o’clock I found that I had very little to occupy my immediate attention. Affairs went swimmingly, and I believed the balloon to be going upward with a speed increasing momentarily although I had no longer any means of ascertaining the progression of the increase. I suffered no pain or uneasiness of any kind, and enjoyed better spirits than I had at any period since my departure from Rotterdam! busying myself now in examining the state of my various apparatus. and now in regenerating the atmosphere within the chamber. This latter point I determined to attend to at regular intervals of forty minutes, more on account of the preservation of my health, than from so frequent a renovation being absolutely necessary. In the meanwhile I could not help mak-

ing anticipations. Fancy revelled in the wild and dreamy regions of the moon. Imagination, feeling herself for once unshackled, roamed at will among the ever-changing wonders of a shadowy and unstable land. Now there were hoary and time-honored forests, and craggy precipices, and waterfalls tumbling with a loud noise into abysses without a bottom. Then I came suddenly into still noonday solitudes, where no wind of heaven ever intruded, and where vast meadows of poppies, and slender, lily-looking flowers spread themselves out a weary distance, all silent and motionless for ever. Then again I journeyed far down away into another country where it was all one dim and vague lake, with a boundary line of clouds. But fancies such as these were not the sole possessors of my brain. Horrors of a nature most stern and most appalling would too frequently obtrude themselves upon my mind, and shake the innermost depths of my soul with the bare supposition of their possibility. Yet I would not suffer my thoughts for any length of time to dwell upon these latter speculations, rightly judging the real and palpable dangers of the voyage sufficient for my undivided attention.

“At five o’clock, P. M., being engaged in regenerating the atmosphere within the chamber, I took that opportunity of observing the cat and kittens through the valve. The cat herself appeared to suffer again very much, and I

had no hesitation in attributing her uneasiness chiefly to a difficulty in breathing; but my experiment with the kittens had resulted very strangely. I had expected, of course, to see them betray a sense of pain, although in a less degree than their mother; and this would have been sufficient to confirm my opinion concerning the habitual endurance of atmospheric pressure. But I was not prepared to find them, upon close examination, evidently enjoying a high degree of health, breathing with the greatest ease and perfect regularity, and evincing not the slightest sign of any uneasiness. I could only account for all this by extending my theory, and supposing that the highly rarefied atmosphere around might perhaps not be, as I had taken for granted, chemically insufficient for the purposes of life, and that a person born in such a *medium* might, possibly, be unaware of any inconvenience attending its inhalation, while, upon removal to the denser *strata* near the earth, he might endure tortures of a similar nature to those I had so lately experienced. It has since been to me a matter of deep regret that an awkward accident, at this time, occasioned me the loss of my little family of cats, and deprived me of the insight into this matter which a continued experiment might have afforded. In passing my hand through the valve, with a cup of water for the old puss, the sleeves of my shirt became entangled in the loop which sustained the basket,

and thus, in a moment, loosened it from the bottom. Had the whole actually vanished into air, it could not have shot from my sight in a more abrupt and instantaneous manner. Positively, there could not have intervened the tenth part of a second between the disengagement of the basket and its absolute disappearance with all that it contained. My good wishes followed it to the earth, but of course, I had no hope that either cat or kittens would ever live to tell the tale of their misfortune.

“At six o’clock, I perceived a great portion of the earth’s visible area to the eastward involved in thick shadow, which continued to advance with great rapidity, until, at five minutes before seven, the whole surface in view was enveloped in the darkness of night. It was not, however, until long after this time that the rays of the setting sun ceased to illumine the balloon; and this circumstance, although of course fully anticipated, did not fail to give me an infinite deal of pleasure. It was evident that, in the morning, I should behold the rising luminary many hours at least before the citizens of Rotterdam, in spite of their situation so much farther to the eastward, and thus, day after day, in proportion to the height ascended, would I enjoy the light of the sun for a longer and a longer period. I now determined to keep a journal of my passage, reckoning the days from one to twenty-four hours continuous-

ly, without taking into consideration the intervals of darkness.

“At ten o’clock, feeling sleepy, I determined to lie down for the rest of the night; but here a difficulty presented itself, which, obvious as it may appear, had escaped my attention up to the very moment of which I am now speaking. If I went to sleep as I proposed, how could the atmosphere in the chamber be regenerated in the *interim*? To breathe it for more than an hour, at the farthest, would be a matter of impossibility; or, if even this term could be extended to an hour and a quarter, the most ruinous consequences might ensue. The consideration of this dilemma gave me no little disquietude; and it will hardly be believed, that, after the dangers I had undergone, I should look upon this business in so serious a light, as to give up all hope of accomplishing my ultimate design, and finally make up my mind to the necessity of a descent. But this hesitation was only momentary. I reflected that man is the veriest slave of custom, and that many points in the routine of his existence are deemed *essentially* important, which are only so *at all* by his having rendered them habitual. It was very certain that I could not do without sleep; but I might easily bring myself to feel no inconvenience from being awakened at intervals of an hour during the whole period of my repose. It would require but five minutes at most to regenerate the atmosphere in the fullest manner

—and the only real difficulty was to contrive a method of arousing myself at the proper moment for so doing. But this was a question which, I am willing to confess, occasioned me no little trouble in its solution. To be sure, I had heard of the student who, to prevent his falling asleep over his books, held in one hand a ball of copper, the din of whose descent into a basin of the same metal on the floor beside his chair, served effectually to startle him up, if, at any moment, he should be overcome with drowsiness. My own case, however, was very different indeed, and left me no room for any similar idea; for I did not wish to keep awake, but to be aroused from slumber at regular intervals of time. I at length hit upon the following expedient, which, simple as it may seem, was hailed by me, at the moment of discovery, as an invention fully equal to that of the telescope, the steam-engine, or the art of printing itself.

“It is necessary to premise, that the balloon, at the elevation now attained, continued its course upward with an even and undeviating ascent, and the car consequently followed with a steadiness so perfect that it would have been impossible to detect in it the slightest vacillation. This circumstance favored me greatly in the project I now determined to adopt. My supply of water had been put on board in kegs containing five gallons each, and ranged very securely around the interior of the car. I un-

fastened one of these, and taking two ropes, tied them tightly across the rim of the wickerwork from one side to the other; placing them about a foot apart and parallel, so as to form a kind of shelf, upon which I placed the keg, and steadied it in a horizontal position. About eight inches immediately below these ropes, and four feet from the bottom of the car I fastened another shelf—but made of thin plank, being the only similar piece of wood I had. Upon this latter shelf, and exactly beneath one of the rims of the keg, a small earthen pitcher was deposited. I now bored a hole in the end of the keg over the pitcher, and fitted in a plug of soft wood, cut in a tapering or conical shape. This plug I pushed in or pulled out, as might happen, until, after a few experiments, it arrived at that exact degree of tightness, at which the water, oozing from the hole, and falling into the pitcher below, would fill the latter to the brim in the period of sixty minutes. This, of course, was a matter briefly and easily ascertained, by noticing the proportion of the pitcher filled in any given time. Having arranged all this, the rest of the plan is obvious. My bed was so contrived upon the floor of the car, as to bring my head, in lying down, immediately below the mouth of the pitcher. It was evident, that, at the expiration of an hour, the pitcher, getting full, would be forced to run over, and to run over at the mouth, which was somewhat lower than the rim. It was also evi-

dent, that the water thus falling from a height of more than four feet, could not do otherwise than fall upon my face, and that the sure consequences would be, to waken me up instantaneously, even from the soundest slumber in the world.

“It was fully eleven by the time I had completed these arrangements, and I immediately betook myself to bed, with full confidence in the efficiency of my invention. Nor in this matter was I disappointed. Punctually every sixty minutes was I aroused by my trusty chronometer, when, having emptied the pitcher into the bung-hole of the keg, and performed the duties of the condenser, I retired again to bed. These regular interruptions to my slumber caused me even less discomfort than I had anticipated; and when I finally arose for the day, it was seven o'clock, and the sun had attained many degrees above the line of my horizon.

“*April 3d.* I found the balloon at an immense height indeed, and the earth's convexity had now become strikingly manifest. Below me in the ocean lay a cluster of black specks, which undoubtedly were islands. Overhead, the sky was of a jetty black, and the stars were brilliantly visible; indeed they had been so constantly since the first day of ascent. Far away to the northward I perceived a thin, white, and exceedingly brilliant line, or streak, on the edge of the horizon, and I had no hesitation in supposing it to be the southern disc of the ices of

the Polar Sea. My curiosity was greatly excited, for I had hopes of passing on much farther to the north, and might possibly, at some period, find myself placed directly above the Pole itself. I now lamented that my great elevation would, in this case, prevent my taking as accurate a survey as I could wish. Much, however, might be ascertained.

“Nothing else of an extraordinary nature occurred during the day. My apparatus all continued in good order, and the balloon still ascended without any perceptible vacillation. The cold was intense, and obliged me to wrap up closely in an overcoat. When darkness came over the earth, I betook myself to bed, although it was for many hours afterward broad daylight all around my immediate situation. The water-clock was punctual in its duty, and I slept until next morning soundly, with the exception of the periodical interruption.

“*April 4th.* Arose in good health and spirits, and was astonished at the singular change which had taken place in the appearance of the sea. It had lost, in a great measure, the deep tint of blue it had hitherto worn, being now of a grayish-white, and of a lustre dazzling to the eye. The convexity of the ocean had become so evident, that the entire mass of the distant water seemed to be tumbling headlong over the abyss of the horizon, and I found myself listening on tiptoe for the echoes of the mighty cataract. The islands were no longer visible;

whether they had passed down the horizon to the southeast, or whether my increasing elevation had left them out of sight, it is impossible to say. I was inclined, however, to the latter opinion. The rim of ice to the northward was growing more and more apparent. Cold by no means so intense. Nothing of importance occurred, and I passed the day in reading, having taken care to supply myself with books.

"*April 5th.* Beheld the singular phenomenon of the sun rising while nearly the whole visible surface of the earth continued to be involved in darkness. In time, however, the light spread itself over all, and I again saw the line of ice to the northward. It was now very distinct, and appeared of a much darker hue than the waters of the ocean. I was evidently approaching it, and with great rapidity. Fancied I could again distinguish a strip of land to the eastward, and one also to the westward, but could not be certain. Weather moderate. Nothing of any consequence happened during the day. Went early to bed.

"*April 6th.* Was surprised at finding the rim of ice at a very moderate distance, and an immense field of the same material stretching away off to the horizon in the north. It was evident that if the balloon held its present course, it would soon arrive above the Frozen Ocean, and I had now little doubt of ultimately seeing the Pole. During the whole of the day I continued to near the ice. Toward

night the limits of my horizon very suddenly and materially increased, owing undoubtedly to the earth's form being that of an oblate spheroid, and my arriving above the flattened regions in the vicinity of the Arctic circle. When darkness at length overtook me, I went to bed in great anxiety, fearing to pass over the object of so much curiosity when I should have no opportunity of observing it.

"*April 7th.* Arose early, and, to my great joy, at length beheld what there could be no hesitation in supposing the northern Pole itself. It was there, beyond a doubt, and immediately beneath my feet; but, alas! I had now ascended to so vast a distance, that nothing could with accuracy be discerned. Indeed, to judge from the progression of the numbers indicating my various altitudes, respectively, at different periods, between six A. M. on the second of April, and twenty minutes before nine A. M. of the same day (at which time the barometer ran down), it might be fairly inferred that the balloon had now, at four o'clock in the morning of April the seventh, reached a height of *not less*, certainly, than 7254 miles above the surface of the sea. This elevation may appear immense, but the estimate upon which it is calculated gave a result in all probability far inferior to the truth. At all events I undoubtedly beheld the whole of the earth's major diameter; the entire northern hemisphere lay beneath me like a chart orthograph-

ically projected: and the great circle of the equator itself formed the boundary line of my horizon. Your Excellencies may, however, readily imagine that the confined regions hitherto unexplored within the limits of the Arctic circle, although situated directly beneath me, and therefore seen without any appearance of being foreshortened, were still, in themselves, comparatively too diminutive, and at too great a distance from the point of sight, to admit of any very accurate examination. Nevertheless, what could be seen was of a nature singular and exciting. Northwardly from that huge rim before mentioned, and which, with slight qualification, may be called the limit of human discovery in these regions, one unbroken, or nearly unbroken, sheet of ice continues to extend. In the first few degrees of this its progress, its surface is very sensibly flattened, farther on depressed into a plane, and finally, becoming *not a little concave*, it terminates, at the Pole itself, in a circular centre, sharply defined, whose apparent diameter subtended at the balloon an angle of about sixty-five seconds, and whose dusky hue, varying in intensity, was, at all times, darker than any other spot upon the visible hemisphere, and occasionally deepened into the most absolute blackness. Farther than this, little could be ascertained. By twelve o'clock the circular centre had materially decreased in circumference, and by seven P. M. I lost sight of it entirely; the balloon passing

over the western limb of the ice, and floating away rapidly in the direction of the equator.

"*April 8th.* Found a sensible diminution in the earth's apparent diameter, besides a material alteration in its general color and appearance. The whole visible area partook in different degrees of a tint of pale yellow, and in some portions had acquired a brilliancy even painful to the eye. My view downward was also considerably impeded by the dense atmosphere in the vicinity of the surface being loaded with clouds, between whose masses I could only now and then obtain a glimpse of the earth itself. This difficulty of direct vision had troubled me more or less for the last forty-eight hours; but my present enormous elevation brought closer together, as it were, the floating bodies of vapor, and the inconvenience became, of course, more and more palpable in proportion to my ascent. Nevertheless, I could easily perceive that the balloon now hovered above the range of great lakes in the continent of North America, and was holding a course, due south, which would soon bring me to the tropics. This circumstance did not fail to give me the most heartfelt satisfaction, and I hailed it as a happy omen of ultimate success. Indeed, the direction I had hitherto taken, had filled me with uneasiness; for it was evident that, had I continued it much longer, there would have been no possibility of my arriving at the moon at all, whose orbit is inclined to the

ecliptic at only the small angle of  $5^{\circ} 8' 48''$ . Strange as it may seem, it was only at this late period that I began to understand the great error I had committed, in not taking my departure from earth at some point *in the plane of the lunar ellipse*.

"*April 9th.* To-day the earth's diameter was greatly diminished, and the color of the surface assumed hourly a deeper tint of yellow. The balloon kept steadily on her course to the southward, and arrived, at nine P. M., over the northern edge of the Mexican Gulf.

"*April 10th.* I was suddenly aroused from slumber, about five o'clock this morning, by a loud, crackling, and terrific sound, for which I could in no manner account. It was of very brief duration, but, while it lasted, resembled nothing in the world of which I had any previous experience. It is needless to say that I became excessively alarmed, having, in the first instance, attributed the noise to the bursting of the balloon. I examined all my apparatus, however, with great attention, and could discover nothing out of order. Spent a great part of the day in meditating upon an occurrence so extraordinary, but could find no means whatever of accounting for it. Went to bed dissatisfied, and in a state of great anxiety and agitation.

"*April 11th.* Found a startling diminution in the apparent diameter of the earth, and a considerable increase, now observable for the

first time, in that of the moon itself, which wanted only a few days of being full. It now required long and excessive labor to condense within the chamber sufficient atmospheric air for the sustenance of life.

"*April 12th.* A singular alteration took place in regard to the direction of the balloon, and although fully anticipated, afforded me the most unequivocal delight. Having reached, in its former course, about the twentieth parallel of southern latitude, it turned off suddenly, at an acute angle, to the eastward, and thus proceeded throughout the day, keeping nearly, if not altogether, *in the exact plane of the lunar ellipse*. What was worthy of remark, a very perceptible vacillation in the car was a consequence of this change of route,—a vacillation which prevailed, in a more or less degree, for a period of many hours.

"*April 13th.* Was again very much alarmed by a repetition of the loud, crackling noise which terrified me on the tenth. Thought long upon the subject, but was unable to form any satisfactory conclusion. Great decrease in the earth's apparent diameter, which now subtended from the balloon an angle of very little more than twenty-five degrees. The moon could not be seen at all, being nearly in my zenith. I still continued in the plane of the ellipse, but made little progress to the eastward.

"*April 14th.* Extremely rapid decrease in the diameter of the earth. To-day I became

strongly impressed with the idea, that the balloon was now actually running up the line of apsides to the point of perigee,—in other words, holding the direct course which would bring it immediately to the moon in that part of its orbit the nearest to the earth. The moon itself was directly overhead, and consequently hidden from my view. Great and long-continued labor necessary for the condensation of the atmosphere.

*April 15th.* Not even the outlines of continents and seas could now be traced upon the earth with distinctness. About twelve o'clock I became aware, for the third time, of that appalling sound which had so astonished me before. It now, however, continued for some moments, and gathered intensity as it continued. At length, while, stupefied and terror-stricken I stood in expectation of I knew not what hideous destruction, the car vibrated with excessive violence, and a gigantic and flaming mass of some material which I could not distinguish, came with a voice of a thousand thunders, roaring and booming by the balloon. When my fears and astonishment had in some degree subsided, I had little difficulty in supposing it to be some mighty volcanic fragment ejected from that world to which I was so rapidly approaching, and, in all probability, one of that singular class of substances occasionally picked up on the earth, and termed meteoric stones for want of a better appellation.

*“April 16th.* To-day, looking upward as well as I could, through each of the side windows alternately, I beheld, to my great delight, a very small portion of the moon’s disk protruding, as it were, on all sides beyond the huge circumference of the balloon. My agitation was extreme; for I had now little doubt of soon reaching the end of my perilous voyage. Indeed, the labor now required by the condenser, had increased to a most oppressive degree, and allowed me scarcely any respite from exertion. Sleep was a matter nearly out of the question. I became quite ill, and my frame trembled with exhaustion. It was impossible that human nature could endure this state of intense suffering much longer. During the now brief interval of darkness a meteoric stone again passed in my vicinity, and the frequency of these phenomena began to occasion me much apprehension.

*“April 17th.* This morning proved an epoch in my voyage. It will be remembered that, on the thirteenth, the earth subtended an angular breadth of twenty-five degrees. On the fourteenth this had greatly diminished; on the fifteenth a still more remarkable decrease was observable; and, on retiring on the night of the sixteenth, I had noticed an angle of no more than about seven degrees and fifteen minutes. What, therefore, must have been my amazement, on awakening from a brief and disturbed slumber, on the morning of this day, the seven-

teenth, at finding the surface beneath me so suddenly and wonderfully *augmented* in volume, as to subtend no less than thirty-nine degrees in apparent angular diameter! I was thunderstruck! No words can give any adequate idea of the extreme, the absolute horror and astonishment, with which I was seized, possessed, and altogether overwhelmed. My knees tottered beneath me—my teeth chattered—my hair started up on end. ‘The balloon, then, had actually burst!’ These were the first tumultuous ideas that hurried through my mind: ‘The balloon had positively burst!—I was falling—falling with the most impetuous, the most unparalleled velocity! To judge by the immense distance already so quickly passed over, it could not be more than ten minutes, at the farthest, before I should reach the surface of the earth, and be hurled into annihilation!’ But at length reflection came to my relief. I paused; I considered; and I began to doubt. The matter was impossible. I could not in any reason have so rapidly come down. Besides, although I was evidently approaching the surface below me, it was with a speed by no means commensurate with the velocity I had at first conceived. This consideration served to calm the perturbation of my mind, and I finally succeeded in regarding the phenomenon in its proper point of view. In fact, amazement must have fairly deprived me of my senses, when I could not see the vast difference, in ap-

pearance, between the surface below me, and the surface of my mother earth. The latter was indeed over my head, and completely hidden by the balloon, while the moon—the moon itself in all its glory—lay beneath me, and at my feet.

“The stupor and surprise produced in my mind by this extraordinary change in the posture of affairs, was, perhaps, after all, that part of the adventure least susceptible of explanation. For the *bouleversement* in itself was not only natural and inevitable, but had been long actually anticipated as a circumstance to be expected whenever I should arrive at that exact point of my voyage where the attraction of the planet should be superseded by the attraction of the satellite—or, more precisely, where the gravitation of the balloon toward the earth should be less powerful than its gravitation toward the moon. To be sure I arose from a sound slumber, with all my senses in confusion, to the contemplation of a very startling phenomenon, and one which, although expected, was not expected at the moment. The revolution itself must, of course, have taken place in an easy and gradual manner, and it is by no means clear that, had I even been awake at the time of the occurrence, I should have been made aware of it by any *internal* evidence of an inversion,—that is to say, by any inconvenience or disarrangement, either about my person or about my apparatus.

“It is almost needless to say that, upon coming to a due sense of my situation, and emerging from the terror which had absorbed every faculty of my soul, my attention was, in the first place, wholly directed to the contemplation of the general physical appearance of the moon. It lay beneath me like a chart—and although I judged it to be still at no inconsiderable distance, the indentures of its surface were defined to my vision with a most striking and altogether unaccountable distinctness. The entire absence of ocean or sea, and indeed of any lake or river, or body of water whatsoever, struck me, at first glance, as the most extraordinary feature in its geological condition. Yet, strange to say, I beheld vast level regions of a character decidedly alluvial, although by far the greater portion of the hemisphere in sight was covered with innumerable volcanic mountains, conical in shape, and having more the appearance of artificial than of natural protuberances. The highest among them does not exceed three and three-quarter miles in perpendicular elevation; but a map of the volcanic districts of the *Campi Phlegræi* would afford to your Excellencies a better idea of their general surface than any unworthy description I might think proper to attempt. The greater part of them were in a state of evident eruption, and gave me fearfully to understand their fury and their power, by the repeated thunders of the miscalled meteoric stones, which now rushed

upward by the balloon with a frequency more and more appalling.

*“April 18th.* To-day I found an enormous increase in the moon’s apparent bulk—and the evidently accelerated velocity of my descent began to fill me with alarm. It will be remembered, that, in the earliest stage of my speculations upon the possibility of a passage to the moon, the existence, in its vicinity, of an atmosphere, dense in proportion to the bulk of the planet, had entered largely into my calculations; this too in spite of many theories to the contrary, and, it may be added, in spite of a general disbelief in the existence of any lunar atmosphere at all. But, in addition to what I have already urged in regard to Encke’s comet and the zodiacal light, I had been strengthened in my opinion by certain observations of Mr. Schroeter, of Lilienthal. He observed the moon when two days and a half old, in the evening soon after sunset, before the dark part was visible, and continued to watch it until it became visible. The two cusps appeared tapering in a very sharp faint prolongation, each exhibiting its farthest extremity faintly illuminated by the solar rays, before any part of the dark hemisphere was visible. Soon afterward, the whole dark limb became illuminated. This prolongation of the cusps beyond the semicircle, I thought, must have arisen from the refraction of the sun’s rays by the moon’s atmosphere. I computed, also, the height of the at-

mosphere (which could refract light enough into its dark hemisphere to produce a twilight more luminous than the light reflected from the earth when the moon is about  $32^{\circ}$  from the new) to be 1356 Paris feet; in this view, I supposed the greatest height capable of refracting the solar ray, to be 5376 feet. My ideas on this topic had also received confirmation by a passage in the eighty-second volume of the Philosophical Transactions, in which it is stated, that, at an occultation of Jupiter's satellites, the third disappeared after having been about 1" or 2" of time indistinct, and the fourth became indiscernible near the limb.\*

"Upon the resistance or, more properly, upon the support of an atmosphere, existing in the state of density imagined, I had, of course, entirely depended for the safety of my ultimate descent. Should I then, after all, prove to have been mistaken, I had in consequence nothing better to expect, as a *finale* to my adventure,

\* Hevelius writes that he has several times found, in skies perfectly clear, when even stars of the sixth and seventh magnitude were conspicuous, that, at the same altitude of the moon, at the same elongation from the earth, and with one and the same excellent telescope, the moon and its maculæ did not appear equally lucid at all times. From the circumstances of the observation, it is evident that the cause of this phenomenon is not either in our air, in the tube, in the moon, or in the eye of the spectator, but must be looked for in something (an atmosphere?) existing about the moon.

Cassini frequently observed Saturn, Jupiter, and the fixed stars, when approaching the moon to occultation, to have their circular figure changed into an oval one; and, in other occultations, he found no alteration of figure at all. Hence it might be supposed, that *at some times*, and not at others, there is a dense matter encompassing the moon wherein the rays of the stars are refracted.

than being dashed into atoms against the rugged surface of the satellite. And, indeed, I had now every reason to be terrified. My distance from the moon was comparatively trifling, while the labor required by the condenser was diminished not at all, and I could discover no indication whatever of a decreasing rarity in the air.

“*April 19th.* This morning, to my great joy, about nine o’clock, the surface of the moor being frightfully near, and my apprehension excited to the utmost, the pump of my condenser at length gave evident tokens of an alteration in the atmosphere. By ten, I had reason to believe its density considerably increased. By eleven, very little labor was necessary at the apparatus; and at twelve o’clock, with some hesitation, I ventured to unscrew the *tourniquet*, when, finding no inconvenience from having done so, I finally threw open the gum-elastic chamber, and unrigged it from around the car. As might have been expected, spasms and violent headache were the immediate consequences of an experiment so precipitate and full of danger. But these and other difficulties attending respiration, as they were by no means so great as to put me in peril of my life, I determined to endure as I best could, in consideration of my leaving them behind me momentarily in my approach to the denser *strata* near the moon. This approach, however, was still impetuous in the extreme; and it soon be-

came alarmingly certain that, although I had probably not been deceived in the expectation of an atmosphere dense in proportion to the mass of the satellite, still I had been wrong in supposing this density, even at the surface, at all adequate to the support of the great weight contained in the car of my balloon. Yet this *should* have been the case, and in an equal degree as at the surface of the earth, the actual gravity of bodies at either planet supposed in the ratio of the atmospheric condensation. That it *was not* the case, however, my precipitous downfall gave testimony enough; *why* it was not so, can only be explained by a reference to those possible geological disturbances to which I have formerly alluded. At all events I was now close upon the planet, and coming down with the most terrible impetuosity. I lost not a moment, accordingly, in throwing overboard first my ballast, then my water-kegs, then my condensing apparatus and gum-elastic chamber, and finally every article within the car. But it was all to no purpose. I still fell with horrible rapidity, and was now not more than half a mile from the surface. As a last resource, therefore, having got rid of my coat, hat, and boots, I cut loose from the balloon *the car itself*, which was of no inconsiderable weight, and thus, clinging with both hands to the net-work, I had barely time to observe that the whole country, as far as the eye could reach, was thickly interspersed with diminutive habi-

tations, ere I tumbled headlong into the very heart of a fantastical-looking city, and into the middle of a vast crowd of ugly little people, who none of them uttered a single syllable, or gave themselves the least trouble to render me assistance, but stood, like a parcel of idiots, grinning in a ludicrous manner, and eyeing me and my balloon askant, with their arms set a-kimbo. I turned from them in contempt, and, gazing upward at the earth so lately left, and left perhaps for ever, beheld it like a huge, dull, copper shield, about two degrees in diameter, fixed immovably in the heavens overhead, and tipped on one of its edges with a crescent border of the most brilliant gold. No traces of land or water could be discovered, and the whole was clouded with variable spots, and belted with tropical and equatorial zones.

“Thus, may it please your Excellencies, after a series of great anxieties, unheard-of dangers, and unparalleled escapes, I had, at length, on the nineteenth day of my departure from Rotterdam, arrived in safety at the conclusion of a voyage undoubtedly the most extraordinary, and the most momentous, ever accomplished, undertaken, or conceived by any denizen of earth. But my adventures yet remain to be related. And indeed your Excellencies may well imagine that, after a residence of five years upon a planet not only deeply interesting in its own peculiar character, but rendered doubly so by its intimate connection, in

capacity of satellite, with the world inhabited by man, I may have intelligence for the private ear of the States' College of Astronomers of far more importance than the details, however wonderful, of the mere *voyage* which so happily concluded. This is, in fact, the case. I have much—very much which it would give me the greatest pleasure to communicate. I have much to say of the climate of the planet; of its wonderful alternations of heat and cold; of unmitigated and burning sunshine for one fortnight, and more than polar frigidity for the next; of a constant transfer of moisture, by distillation like that *in vacuo*, from the point beneath the sun to the point the farthest from it; of a variable zone of running water; of the people themselves; of their manners, customs, and political institutions; of their peculiar physical construction; of their ugliness; of their want of ears, those useless appendages in an atmosphere so peculiarly modified; of their consequent ignorance of the use and properties of speech; of their substitute for speech in a singular method of inter-communication; of the incomprehensible connection between each particular individual in the moon with some particular individual on the earth—a connection analogous with, and depending upon, that of the orbs of the planet and the satellite, and by means of which the lives and destinies of the inhabitants of the one are interwoven with the lives and destinies of the inhabitants of the other; and

above all, if it so please your Excellencies—above all, of those dark and hideous mysteries which lie in the outer regions of the moon,—regions which, owing to the almost miraculous accordance of the satellite's rotation on its own axis with its sidereal revolution about the earth, have never yet been turned, and, by God's mercy, never shall be turned, to the scrutiny of the telescopes of man. All this, and more—much more—would I most willingly detail. But, to be brief, I must have my reward. I am pining for a return to my family and to my home; and as the price of any farther communication on my part—in consideration of the light which I have it in my power to throw upon many very important branches of physical and metaphysical science—I must solicit, through the influence of your honorable body, a pardon for the crime of which I have been guilty in the death of the creditors upon my departure from Rotterdam. This, then, is the object of the present paper. Its bearer, an inhabitant of the moon, whom I have prevailed upon, and properly instructed, to be my messenger to the earth, will await your Excellencies' pleasure, and return to me with the pardon in question, if it can, in any manner, be obtained.

"I have the honor to be, etc., your Excellencies' very humble servant, HANS PFAALL."

Upon finishing the perusal of this very extraordinary document, Professor Rubadub, it

is said, dropped his pipe upon the ground in the extremity of his surprise, and Mynheer Superbus Von Underduk having taken off his spectacles, wiped them, and deposited them in his pocket, so far forgot both himself and his dignity, as to turn round three times upon his heel in the quintessence of astonishment and admiration. There was no doubt about the matter—the pardon should be obtained. So at least swore, with a round oath, Professor Rubadub, and so finally thought the illustrious Von Underduk, as he took the arm of his brother in science, and without saying a word, began to make the best of his way home to deliberate upon the measures to be adopted. Having reached the door, however, of the burgomaster's dwelling, the professor ventured to suggest that as the messenger had thought proper to disappear—no doubt frightened to death by the savage appearance of the burghers of Rotterdam—the pardon would be of little use, as no one but a man of the moon would undertake a voyage to so vast a distance. To the truth of this observation the burgomaster assented, and the matter was therefore at an end. Not so, however, rumors and speculations. The letter, having been published, gave rise to a variety of gossip and opinion. Some of the over-wise even made themselves ridiculous by decrying the whole business as nothing better than a hoax. But hoax, with these sort of people, is, I believe, a general term for all matters above

their comprehension. For my part, I cannot conceive upon what data they have founded such an accusation. Let us see what they say:

Imprimis. That certain wags in Rotterdam have certain especial antipathies to certain burgomasters and astronomers.

Secondly. That an odd little dwarf and bottle conjurer, both of whose ears, for some misdemeanor, have been cut off close to his head, has been missing for several days from the neighboring city of Bruges.

Thirdly. That the newspapers which were stuck all over the little balloon were newspapers of Holland, and therefore could not have been made in the moon. They were dirty papers—very dirty—and Gluck, the printer, would take his bible oath to their having been printed in Rotterdam.

Fourthly. That Hans Pfaall himself, the drunken villain, and the three very idle gentlemen styled his creditors, were all seen, no longer than two or three days ago, in a tippling house in the suburbs, having just returned, with money in their pockets from a trip beyond the sea.

Lastly. That it is an opinion very generally received, or which ought to be generally received, that the College of Astronomers in the city of Rotterdam, as well as all other colleges in all other parts of the world,—not to mention colleges and astronomers in general,—are, to

say the least of the matter, not a whit better, nor greater, nor wiser than they ought to be.

NOTE.—Strictly speaking, there is but little similarity between the above sketchy trifle and the celebrated "Moon-Story" of Mr. Locke; but as both have the character of *hoaxes* (although the one is in a tone of banter, the other of downright earnest), and as both hoaxes are on the same subject, the moon,—moreover, as both attempt to give plausibility by scientific detail,—the author of "Hans Pfaall" thinks it necessary to say, *in self-defence*, that his own *jeu d'esprit* was published, in the *Southern Literary Messenger*, about three weeks before the commencement of Mr. L.'s in the *New York Sun*. Fancying a likeness which, perhaps, does not exist, some of the New York papers copied "Hans Pfaall," and collated it with the "Moon-Hoax," by way of detecting the writer of the one in the writer of the other.

As many more persons were actually gulled by the "Moon-Hoax" than would be willing to acknowledge the fact, it may here afford some little amusement to show why no one should have been deceived—to point out those particulars of the story which should have been sufficient to establish its real character. Indeed, however rich the imagination displayed in this ingenious fiction, it wanted much of the force which might have been given it by a more scrupulous attention to facts and to general analogy. That the public were misled, even for an instant, merely proves the gross ignorance which is so generally prevalent upon subjects of an astronomical nature.

The moon's distance from the earth is, in round numbers, 240,000 miles. If we desire to ascertain how near, apparently, a lens would bring the satellite (or any distant object), we, of course, have but to divide the distance by the magnifying or, more strictly, by the space-penetrating power of the glass. Mr. L. makes his lens have a power of 42,000 times. By this divide 240,000 (the moon's real distance), and we have five miles and five sevenths, as the apparent distance. No animal at all could be seen so far; much less the minute points particularized in the story. Mr. L. speaks about Sir John Herschel's perceiving flowers (the Papaver rheas, etc.), and even detecting the color and the shape of the eyes of small birds. Shortly before, too, he has himself observed that the lens would not render perceptible objects of less than eighteen inches in diameter; but even this, as I have said, is giving the glass by far too great power. It may be observed, in passing, that this prodigious glass is said to have been moulded at the glass-house of Messrs. Hartley and Grant, in Dumbarton; but Messrs. H. and G.'s establishment had ceased operations for many years previous to the publication of the hoax.

On page 13, pamphlet edition, speaking of "a hairy veil" over the eyes of a species of bison, the author says: "It immediately occurred to the acute mind of Dr. Herschel that this was a providential contrivance to protect the eyes of the animal from

the great extremes of light and darkness to which all the inhabitants of our side of the moon are periodically subjected." But this cannot be thought a very "acute" observation of the Doctor's. The inhabitants of our side of the moon have, evidently, no darkness at all, so there can be nothing of the "extremes" mentioned. In the absence of the sun they have a light from the earth equal to that of thirteen full unclouded moons.

The topography throughout, even when professing to accord with Blunt's Lunar Chart, is entirely at variance with that or any other lunar chart, and even grossly at variance with itself. The points of the compass, too, are in inextricable confusion; the writer appearing to be ignorant that, on a lunar map, these are not in accordance with terrestrial points; the east being to the left, etc.

Deceived, perhaps, by the vague titles, *Mare Nubium*, *Mare Tranquillitatis*, *Mare Fœcunditatis*, etc., given to the dark spots by former astronomers, Mr. L. has entered into details regarding oceans and other large bodies of water in the moon; whereas there is no astronomical point more positively ascertained than that no such bodies exist there. In examining the boundary between light and darkness (in the crescent or gibbous moon) where this boundary crosses any of the dark places, the line of division is found to be rough and jagged; but, were these dark places liquid, it would evidently be even.

The description of the wings of the man-bat, on page 21, is but a literal copy of Peter Wilkins' account of the wings of his flying islanders. This simple fact should have induced suspicion, at least, it might be thought.

On page 23, we have the following: "What a prodigious influence must our thirteen times larger globe have exercised upon this satellite when an embryo in the womb of time, the passive subject of chemical affinity!" This is very fine; but it should be observed that no astronomer would have made such remark, especially to any *Journal of Science*; for the earth, in the sense intended, is not only thirteen, but forty-nine times *larger* than the moon. A similar objection applies to the whole of the concluding pages, where, by way of introduction to some discoveries in Saturn, the philosophical correspondent enters into a minute school-boy account of that planet:—this to the *Edinburgh Journal of Science*!

But there is one point, in particular, which should have betrayed the fiction. Let us imagine the power actually possessed of seeing animals upon the moon's surface;—what would *first* arrest the attention of an observer from the earth? Certainly neither their shape, size, nor any other such peculiarity, so soon as their remarkable *situation*. They would appear to be walking, with heels up and head down, in the manner of flies on a ceiling. The *real* observer would have uttered an instant ejaculation of surprise (however prepared by previous knowledge) at the singularity of their position; the *fictional* observer has not even mentioned the subject, but speaks of seeing the entire bodies of such creatures, when it is demonstrable that he could have seen only the diameter of their heads!

It might as well be remarked, in conclusion, that the size, and particularly the powers of the man-bats (for example, their ability to fly in so rare an atmosphere—if, indeed, the moon have any), with most of the other fancies in regard to animal and vegetable existence, are at variance, generally, with all analogical reasoning on these themes; and that analogy here will often amount to conclusive demonstration. It is, perhaps, scarcely necessary to add, that all the suggestions attributed to Brewster and Herschel, in the beginning of the article, about "a transfusion of artificial light through the focal object of vision," etc., etc., belong to that species of figurative writing which comes, most properly, under the denomination of rigma-role.

There is a real and very definite limit to optical discovery among the stars—a limit whose nature need only be stated to be understood. If, indeed, the casting of large lenses were all that is required, man's ingenuity would ultimately prove equal to the task, and we might have them of any size demanded. But, unhappily, in proportion to the increase of size in the lens, and consequently, of space-penetrating power, is the diminution of light from the object, by diffusion of its rays. And for this evil there is no remedy within human ability; for an object is seen by means of that light alone which proceeds from itself, whether direct or reflected. Thus the only "artificial" light which could avail Mr. Locke, would be some artificial light which he should be able to throw—not upon the "focal object of vision," but upon the real object to be viewed—to wit: *upon the moon*. It has been easily calculated that, when the light proceeding from a star becomes so diffused as to be as weak as the natural light proceeding from the whole of the stars, in a clear and moonless night, then the star is no longer visible for any practical purpose.

The Earl of Ross telescope, lately constructed in England, has a *speculum* with a reflecting surface of 4071 square inches; the Herschel telescope having one of only 1811. The metal of the Earl of Ross' is 6 feet diameter; it is  $5\frac{1}{2}$  inches thick at the edges, and 5 at the centre. The weight is 8 tons. The focal length is 50 feet.

I have lately read a singular and somewhat ingenious little book, whose title-page runs thus:—"L'Homme dans la lune, ou le Voyage Chimérique fait au Monde de la Lune, nouvellement decouvert par Dominique Gonzales, Aduanturier Espagnol, autremét dit le Courier volant. Mis en notre langue par J. B. D. A. Paris, chez Francois Piot, pres la Fontaine de Saint Benoist. Et chez J. Goignard, au premier pilier de la grand' salle du Palais, proche les Consultations, MDCXLVII." Pp. 176.

The writer professes to have translated his work from the English of one Mr. D'Avlsson (Davidson ?) although there is a terrible ambiguity in the statement. "I'en ai eu," says he, "l'original de Monsieur D'Avlsson, medecin des mieux versez qui soient aujourd'huy dans la cōnoissance des Belles Lettres, et sur tout de la Philosophie Naturelle. Je lui ai cette obligation entre les autres, de m' auoir non seulement mis en main

*Livre en anglois, mais encore le Manuscrit du Sieur Thomas D'Anan, gentilhomme Eccossois, recommandable pour sa vertu, sur la version duquel j'advoue que j'ay tiré le plan de la mienne."*

After some irrelevant adventures, much in the manner of Gil Blas, and which occupy the first thirty pages, the author relates that, being ill during a sea voyage, the crew abandoned him, together with a negro servant, on the island of St. Helena. To increase the chances of obtaining food, the two separate, and live as far apart as possible. This brings about a training of birds, to serve the purpose of carrier-pigeons between them. By and by these are taught to carry parcels of some weight—and this weight is gradually increased. At length the idea is entertained of uniting the force of a great number of the birds, with a view to raising the author himself. A machine is contrived for the purpose, and we have a minute description of it, which is materially helped out by a steel engraving. Here we perceive the Signor Gonzales, with point ruffles and a huge periwig, seated astride something which resembles very closely a broomstick, and borne aloft by a multitude of wild swans (*ganzas*) who had strings reaching from their tails to the machine.

The main event detailed in the Signor's narrative depends upon a very important fact, of which the reader is kept in ignorance until near the end of the book. The *ganzas*, with whom he had become so familiar, were not really denizens of St. Helena, but of the moon. Thence it had been their custom, time out of mind, to migrate annually to some portion of the earth. In proper season, of course, they would return home; and the author, happening, one day, to require their services for a short voyage, is unexpectedly carried straight up, and in a very brief period arrives at the satellite. Here he finds, among other odd things, that the people enjoy extreme happiness; that they have no *law*; that they die without pain; that they are from ten to thirty feet in height; that they live five thousand years; that they have an emperor called Irdonozur; and that they can jump sixty feet high, when, being out of the gravitating influence, they fly about with fans.

I cannot forbear giving a specimen of the general *philosophy* of the volume.

"I must now declare to you," says the Signor Gonzales, "the nature of the place in which I found myself. All the clouds were beneath my feet, or, if you please, spread between me and the earth. As to the stars, *since there was no night where I was, they always had the same appearance; not brilliant, as usual, but pale, and very nearly like the moon of a morning.* But few of them were visible, and these ten times larger (as well as I could judge) than they seem to the inhabitants of the earth. The moon, which wanted two days of being full, was of a terrible bigness.

"I must not forget here, that the stars appeared only on that side of the globe turned toward the moon, and that the closer they were to it the larger they seemed. I have also to inform

you that, whether it was calm weather or stormy, I found myself *always immediately between the moon and the earth*. I was convinced of this for two reasons—because my birds always flew in a straight line; and because whenever we attempted to rest, *we were carried insensibly around the globe of the earth*. For I admit the opinion of Copernicus, who maintains that it never ceases to revolve *from the east to the west*, not upon the poles of the Equinoctial, commonly called the poles of the world, but upon those of the Zodiac, a question of which I propose to speak more at length hereafter, when I shall have leisure to refresh my memory in regard to the astrology which I learned at Salamanca when young, and have since forgotten."

Notwithstanding the blunders italicized, the book is not without some claim to attention, as affording a naïve specimen of the current astronomical notions of the time. One of these assumed, that the "gravitating power" extended but a short distance from the earth's surface, and, accordingly, we find our voyager "carried insensibly around the globe," etc.

There have been other "voyages to the moon," but none of higher merit than the one just mentioned. That of Bergerac is utterly meaningless. In the third volume of the *American Quarterly Review* will be found quite an elaborate criticism upon a certain "Journey" of the kind in question;—a criticism in which it is difficult to say whether the critic most exposes the stupidity of the book, or his own absurd ignorance of astronomy. I forget the title of the work; but the means of the voyage are more deplorably ill conceived than are even the *ganzas* of our friend the Signor Gonzales. The adventurer, in digging the earth, happens to discover a peculiar metal for which the moon has a strong attraction, and straightway constructs of it a box, which, when cast loose from its terrestrial fastenings, flies with him, forthwith, to the satellite. The "Flight of Thomas O'Rourke," is a *jeu d'esprit* not altogether contemptible, and has been translated into German. Thomas, the hero, was, in fact, the game-keeper of an Irish peer, whose eccentricities gave rise to the tale. The "flight" is made on an eagle's back, from Hungry Hill, a lofty mountain at the end of Bantry Bay.

In these various *brochures* the aim is always satirical; the theme being a description of Lunarian customs as compared with ours. In none is there any effort at *plausibility* in the details of the voyage itself. The writers seem, in each instance, to be utterly uninformed in respect to astronomy. In "Hans Pfaall" the design is original, inasmuch as regards an attempt at *verisimilitude*, in the application of scientific principles (so far as the whimsical nature of the subject would permit), to the actual passage between the earth and the moon.

## THE GOLD-BUG.

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What ho ! what ho ! this fellow is dancing mad !  
He hath been bitten by the Tarantula.

—*All in the Wrong.*

MANY years ago, I contracted an intimacy with a Mr. William Legrand. He was of an ancient Huguenot family, and had once been wealthy; but a series of misfortunes had reduced him to want. To avoid the mortification consequent upon his disasters, he left New Orleans, the city of his forefathers, and took up his residence at Sullivan's Island, near Charleston, South Carolina.

This island is a very singular one. It consists of little else than the sea sand, and is about three miles long. Its breadth at no point exceeds a quarter of a mile. It is separated from the mainland by a scarcely perceptible creek, oozing its way through a wilderness of reeds and slime, a favorite resort of the marsh-hen. The vegetation, as might be supposed, is scant, or at least dwarfish. No trees of any magnitude are to be seen. Near the western extremity, where Fort Moultrie stands, and where are some miserable frame buildings, tenanted, dur-

ing summer, by the fugitives from Charleston dust and fever, may be found, indeed, the bristly palmetto; but the whole island, with the exception of this western point, and a line of hard, white beach on the sea-coast, is covered with a dense undergrowth of the sweet myrtle so much prized by the horticulturists of England. The shrub here often attains the height of fifteen or twenty feet, and forms an almost impenetrable coppice, burthening the air with its fragrance.

In the inmost recesses of this coppice, not far from the eastern or more remote end of the island, Legrand had built himself a small hut, which he occupied when I first, by mere accident, made his acquaintance. This soon ripened into friendship—for there was much in the recluse to excite interest and esteem. I found him well educated, with unusual powers of mind, but infected with misanthropy, and subject to perverse moods of alternate enthusiasm and melancholy. He had with him many books, but rarely employed them. His chief amusements were gunning and fishing, or sauntering along the beach and through the myrtles, in quest of shells or entomological specimens—his collection of the latter might have been envied by a Swammerdamm. In these excursions he was usually accompanied by an old negro, called Jupiter, who had been manumitted before the reverses of the family, but who could be induced, neither by threats nor

by promises, to abandon what he considered his right of attendance upon the footsteps of his young "Massa Will." It is not improbable that the relatives of Legrand, conceiving him to be somewhat unsettled in intellect, had contrived to instil this obstinacy into Jupiter, with a view to the supervision and guardianship of the wanderer.

The winters in the latitude of Sullivan's Island are seldom very severe, and in the fall of the year it is a rare event indeed when a fire is considered necessary. About the middle of October, 18—, there occurred, however, a day of remarkable chilliness. Just before sunset I scrambled my way through the evergreens to the hut of my friend, whom I had not visited for several weeks—my residence being, at that time, in Charleston, a distance of nine miles from the island, while the facilities of passage and re-passage were very far behind those of the present day. Upon reaching the hut I rapped, as was my custom, and getting no reply, sought for the key where I knew it was secreted, unlocked the door, and went in. A fine fire was blazing upon the hearth. It was a novelty, and by no means an ungrateful one. I threw off an overcoat, took an arm-chair by the crackling logs, and awaited patiently the arrival of my hosts.

Soon after dark they arrived, and gave me a most cordial welcome. Jupiter, grinning from ear to ear, bustled about to prepare some

marsh-hens for supper. Legrand was in one of his fits—how else shall I term them?—of enthusiasm. He had found an unknown bivalve, forming a new genus, and, more than this, he had hunted down and secured, with Jupiter's assistance, a *scarabæus* which he believed to be totally new, but in respect to which he wished to have my opinion on the morrow.

"And why not to-night?" I asked, rubbing my hands over the blaze, and wishing the whole tribe of *scarabæi* at the devil.

"Ah, if I had only known you were here!" said Legrand, "but it's so long since I saw you; and how could I foresee that you would pay me a visit this very night of all others? As I was coming home I met Lieutenant G——, from the fort, and, very foolishly, I lent him the bug; so it will be impossible for you to see it until the morning. Stay here to-night, and I will send Jup down for it at sunrise. It is the loveliest thing in creation!"

"What?—sunrise?"

"Nonsense! no!—the bug. It is of a brilliant gold color—about the size of a large hickory-nut—with two jet black spots near one extremity of the back, and another, somewhat longer, at the other. The *antennæ* are—"

"Dey ain't *no* tin in him, Massa Will, I keep a tellin' on you," here interrupted Jupiter; "de bug is a goole-bug, solid, ebery bit of him, inside and all, sep him wing—neber feel half so hebby a bug in my life."

"Well, suppose it is, Jup," replied Legrand, somewhat more earnestly, it seemed to me, than the case demanded; "is that any reason for your letting the birds burn? The color"—here he turned to me—"is really almost enough to warrant Jupiter's idea. You never saw a more brilliant metallic lustre than the scales emit—but of this you cannot judge till to-morrow. In the meantime I can give you some idea of the shape." Saying this, he seated himself at a small table, on which were a pen and ink, but no paper. He looked for some in a drawer, but found none.

"Never mind," he said at length, "this will answer;" and he drew from his waistcoat pocket a scrap of what I took to be very dirty foolscap, and made upon it a rough drawing with the pen. While he did this, I retained my seat by the fire, for I was still chilly. When the design was complete, he handed it to me without rising. As I received it, a loud growl was heard, succeeded by a scratching at the door. Jupiter opened it, and a large Newfoundland, belonging to Legrand, rushed in, leaped upon my shoulders, and loaded me with caresses; for I had shown him much attention during previous visits. When his gambols were over, I looked at the paper, and, to speak the truth, found myself not a little puzzled at what my friend had depicted.

"Well!" I said, after contemplating it for some minutes, "this is a strange *scarabæus*, I

must confess; new to me; never saw anything like it before—unless it was a skull, or a death's-head, which it more nearly resembles than anything else that has come under *my* observation."

"A death's-head!" echoed Legrand. "Oh—yes—well, it has something of that appearance upon paper, no doubt. The two upper black spots look like eyes, eh? and the longer one at the bottom like a mouth—and then the shape of the whole is oval."

"Perhaps so," said I; "but, Legrand, I fear you are no artist. I must wait until I see the beetle itself, if I am to form any idea of its personal appearance."

"Well, I don't know," said he, a little nettled, "I draw tolerably—*should* do it at least—have had good masters, and flatter myself that I am not quite a blockhead."

"But, my dear fellow, you are joking then," said I, "this is a very passable *skull*—indeed, I may say that it is a very *excellent* skull, according to the vulgar notions about such specimens of physiology—and your *scarabæus* must be the queerest *scarabæus* in the world if it resembles it. Why, we may get up a very thrilling bit of superstition upon this hint. I presume you will call the bug *scarabæus caput hominis*, or something of that kind—there are many similar titles in the Natural Histories. But where are the *antennæ* you spoke of?"

"The *antennæ*!" said Legrand, who seemed

to be getting unaccountably warm upon the subject; "I am sure you must see the *antennæ*. I made them as distinct as they are in the original insect, and I presume that is sufficient."

"Well, well," I said, "perhaps you have—still I don't see them;" and I handed him the paper without additional remark, not wishing to ruffle his temper; but I was much surprised at the turn affairs had taken; his ill humor puzzled me—and, as for the drawing of the beetle, there were positively *no antennæ* visible, and the whole *did* bear a very close resemblance to the ordinary cuts of a death's-head.

He received the paper very peevishly, and was about to crumple it, apparently to throw it in the fire, when a casual glance at the design seemed suddenly to rivet his attention. In an instant his face grew violently red—in another excessively pale. For some minutes he continued to scrutinize the drawing minutely where he sat. At length he arose, took a candle from the table, and proceeded to seat himself upon a sea-chest in the farthest corner of the room. Here again he made an anxious examination of the paper; turning it in all directions. He said nothing, however, and his conduct greatly astonished me; yet I thought it prudent not to exacerbate the growing moodiness of his temper by any comment. Presently he took from his coat-pocket a wallet, placed the paper carefully in it, and deposited both in a writing-wesk, which he locked.

He now grew more composed in his demeanor; but his original air of enthusiasm had quite disappeared. Yet he seemed not so much sulky as abstracted. As the evening wore away he became more and more absorbed in revery, from which no sallies of mine could arouse him. It had been my intention to pass the night at the hut, as I had frequently done before, but, seeing my host in this mood, I deemed it proper to take leave. He did not press me to remain, but, as I departed, he shook my hand with even more than his usual cordiality.

It was about a month after this (and during the interval I had seen nothing of Legrand) when I received a visit, at Charleston, from his man, Jupiter. I had never seen the good old negro look so dispirited, and I feared that some serious disaster had befallen my friend.

"Well, Jup," said I, "what is the matter now?—how is your master?"

"Why, to speak de troof, massa, him not so berry well as mought be."

"Not well! I am truly sorry to hear it. What does he complain of?"

"Dar! dat's it!—him neber 'plain of notin'—but him berry sick for all dat."

"*Very* sick, Jupiter!—why didn't you say so at once? Is he confined to bed?"

"No, dat he aint!—he aint 'fin'd nowhar—dat's just whar de shoe pinch—my mind is got to be berry hebbly 'bout poor Massa Will."

"Jupiter, I should like to understand what it is you are talking about. You say your master is sick. Hasn't he told you what ails him?"

"Why, massa, 'taint worf while for to git mad about de matter—Massa Will say noffin at all aint de matter wid him—but den what make him go about looking dis here way, wid he head down and he soldiers up, and as white as a goose? And den he keep a syphon all de time——"

"Keeps a what, Jupiter?"

"Keeps a syphon wid de figgurs on de slate—de quecrest figgurs I ebber did see. Ise git-tin' to be skeered, I tell you. Hab for to keep mighty tight eye 'pon him 'noovers. Todder day he gib me slip 'fore de sun up and was gone de whole ob de blessed day. I had a big stick ready cut for to gib him deuced good beating when he did come—but Ise sich a fool dat I hadn't de heart arter all—he looked so berry poorly."

"Eh?—what?—ah yes!—upon the whole I think you had better not be too severe with the poor fellow—don't flog him, Jupiter—he can't very well stand it—but can you form no idea of what has occasioned this illness, or rather this change of conduct? Has anything unpleasant happened since I saw you?"

"No, massa, dey aint bin noffin onpleasant since den—'twas 'fore den I'm feared—'twas de berry day you was dare."

"How? what do you mean?"

"Why, massa, I mean de bug—dare now."

"The what?"

"De bug—I'm berry sartin dat Massa Will bin bit somewhere 'bout de head by dat goole-bug."

"And what cause have you, Jupiter, for such a supposition?"

"Claws enuff, massa, and mouff, too. I nebber did see sich a deuced bug—he kick and he bite ebery ting what cum near him. Massa Will cotch him fuss, but had for to let him go 'gin mighty quick, I tell you—den was de time he must ha' got de bite. I didn't like de look ob de bug mouff, myself, nohow, so I wouldn't take hold ob him wid my finger, but I cotch him wid a piece ob paper dat I found. I rap him up in de paper and stuff a piece of it in he mouff—dat was de way."

"And you think, then, that your master was really bitten by the beetle, and that the bite made him sick?"

"I don't think noffin about it—I nose it. What make him dream 'bout de goole so much, if 'taint cause he bit by the goole-bug? Ise heered 'bout dem goole-bugs 'fore dis."

"But how do you know he dreams about gold?"

"How I know? why, 'cause he talk about it in he sleep—dat's how I nose."

"Well, Jup, perhaps you are right; but to

what fortunate circumstance am I to attribute the honor of a visit from you to-day?"

"What de matter, massa?"

"Did you bring any message from Mr. Legrand?"

"No, massa, I bring dis here pissel;" and here Jupiter handed me a note which ran thus:

"MY DEAR ——

"Why have I not seen you for so long a time? I hope you have not been so foolish as to take offence at any little *brusquerie* of mine; but no, that is improbable.

"Since I saw you I have had great cause for anxiety. I have something to tell you, yet scarcely know how to tell it, or whether I should tell it at all.

"I have not been quite well for some days past, and poor old Jup annoys me, almost beyond endurance, by his well-meant attentions. Would you believe it?—he had prepared a huge stick, the other day, with which to chastise me for giving him the slip, and spending the day, *solus*, among the hills on the main land. I verily believe that my ill looks alone saved me a flogging.

"I have made no addition to my cabinet since we met.

"If you can, in any way, make it convenient, come over with Jupiter. *Do* come. I wish to see you *to-night*, upon business of importance.

I assure you that it is of the *highest* importance.

“Ever yours,

“WILLIAM LEGRAND.”

There was something in the tone of this note which gave me great uneasiness. Its whole style differed materially from that of Legrand. What could he be dreaming of? What new crotchet possessed his excitable brain? What “business of the highest importance” could *he* possibly have to transact? Jupiter’s account of him boded no good. I dreaded lest the continued pressure of misfortune had, at length, fairly unsettled the reason of my friend. Without a moment’s hesitation, therefore, I prepared to accompany the negro.

Upon reaching the wharf, I noticed a scythe and three spades, all apparently new, lying in the bottom of the boat in which we were to embark.

“What is the meaning of all this, Jup?” I inquired.

“Him syfe, massa, and spade.”

“Very true; but what are they doing here?”

“Him de syfe and de spade what Massa Will sis ’pon my buying for him in de town, and de debbil’s own lot of money I had to gib for ’em.”

“But what, in the name of all that is mysterious, is your ‘Massa Will’ going to do with scythes and spades?”

“Dat’s more dan *I* know, and debbil take me

if I don't b'lieve 'tis more dan he know too. But it's all cum ob de bug."

Finding that no satisfaction was to be obtained of Jupiter, whose whole intellect seemed to be absorbed by "de bug," I now stepped into the boat, and made sail. With a fair and strong breeze we soon ran into the little cove to the northward of Fort Moultrie, and a walk of some two miles brought us to the hut. It was about three in the afternoon when we arrived. Legrand had been awaiting us in eager expectation. He grasped my hand with a nervous *empressement* which alarmed me and strengthened the suspicions already entertained. His countenance was pale even to ghastliness, and his deep-set eyes glared with unnatural lustre. After some inquiries respecting his health, I asked him, not knowing what better to say, if he had yet obtained the *scarabæus* from Lieutenant G——.

"Oh, yes," he replied, coloring violently, "I got it from him the next morning. Nothing should tempt me to part with that *scarabæus*. Do you know that Jupiter is quite right about it?"

"In what way?" I asked, with a sad foreboding at heart.

"In supposing it to be a bug of *real gold*." He said this with an air of profound seriousness, and I felt inexpressibly shocked.

"This bug is to make my fortune," he continued, with a triumphant smile; "to reinstate

me in my family possessions. Is it any wonder, then, that I prize it? Since Fortune has thought fit to bestow it upon me, I have only to use it properly, and I shall arrive at the gold of which it is the index. Jupiter, bring me that *scarabæus*!”

“What! de bug, massa? I’d rudder not go fer trubble dat bug; you mus’ git him for your own self.” Hereupon Legrand arose, with a grave and stately air, and brought me the beetle from a glass case in which it was enclosed. It was a beautiful *scarabæus*, and, at that time, unknown to naturalists—of course a great prize in a scientific point of view. There were two round black spots near one extremity of the back, and a long one near the other. The scales were exceedingly hard and glossy, with all the appearance of burnished gold. The weight of the insect was very remarkable, and, taking all things into consideration, I could hardly blame Jupiter for his opinion respecting it; but what to make of Legrand’s concordance with that opinion, I could not, for the life of me, tell.

“I sent for you,” said he, in a grandiloquent tone, when I had completed my examination of the beetle, “I sent for you that I might have your counsel and assistance in furthering the views of Fate and of the bug—”

“My dear Legrand,” I cried, interrupting him, “you are certainly unwell, and had better use some little precautions. You shall go to bed, and I will remain with you a few days,

until you get over this. You are feverish and—”

“Feel my pulse,” said he.

I felt it, and, to say the truth, found not the slightest indication of fever.

“But you may be ill and yet have no fever. Allow me this once to prescribe for you. . In the first place go to bed. In the next—”

“You are mistaken,” he interposed, “I am as well as I can expect to be under the excitement which I suffer. If you really wish me well, you will relieve this excitement.”

“And how is this to be done?”

“Very easily. Jupiter and myself are going upon an expedition into the hills, upon the main land, and, in this expedition, we shall need the aid of some person in whom we can confide. You are the only one we can trust. Whether we succeed or fail, the excitement which you now perceive in me will be equally allayed.”

“I am anxious to oblige you in any way,” I replied; “but do you mean to say that this infernal beetle has any connection with your expedition into the hills?”

“It has.”

“Then, Legrand, I can become a party to no such absurd proceeding.”

“I am sorry—very sorry—for we shall have to try it by ourselves.”

“Try it by yourselves! The man is surely

mad!—but stay!—how long do you propose to be absent?”

“Probably all night. We shall start immediately, and be back, at all events, by sunrise.”

“And will you promise me, upon your honor, that when this freak of yours is over, and the bug business (good God!) settled to your satisfaction, you will then return home and follow my advice implicitly, as that of your physician.”

“Yes; I promise; and now let us be off, for we have no time to lose.”

With a heavy heart I accompanied my friend. We started about four o'clock—Legrand, Jupiter, the dog, and myself. Jupiter had with him the scythe and spades—the whole of which he insisted upon carrying—more through fear, it seemed to me, of trusting either of the implements within reach of his master, than from any excess of industry or complaisance. His demeanor was dogged in the extreme, and “dat deuced bug” were the sole words which escaped his lips during the journey. For my own part, I had charge of a couple of dark lanterns, while Legrand contented himself with the *scarabæus*, which he carried attached to the end of a bit of whip-cord; twirling it to and fro, with the air of a conjuror, as he went. When I observed this last, plain evidence of my friend's aberration of mind, I could scarcely refrain from tears. I thought it best, however, to humor his fancy, at least for the present, or until I could adopt some more energetic measures with

a chance of success. In the meantime I endeavored, but all in vain, to sound him in regard to the object of the expedition. Having succeeded in inducing me to accompany him, he seemed unwilling to hold conversation upon any topic of minor importance, and to all my questions vouchsafed no other reply than "we shall see!"

We crossed the creek at the head of the island by means of a skiff, and, ascending the high grounds on the shore of the main land, proceeded in a northwesterly direction, through a tract of country excessively wild and desolate, where no trace of a human footstep was to be seen. Legrand led the way with decision; pausing only for an instant, here and there, to consult what appeared to be certain landmarks of his own contrivance upon a former occasion.

In this manner we journeyed for about two hours, and the sun was just setting when we entered a region infinitely more dreary than any yet seen. It was a species of tableland, near the summit of an almost inaccessible hill, densely wooded from base to pinnacle, and interspersed with huge crags that appeared to lie loosely upon the soil, and in many cases were prevented from precipitating themselves into the valleys below, merely by the support of the trees against which they reclined. Deep ravines, in various directions, gave an air of still sterner solemnity to the scene.

The natural platform to which we had clambered was thickly overgrown with brambles, through which we soon discovered that it would have been impossible to force our way but for the scythe; and Jupiter, by direction of his master, proceeded to clear for us a path to the foot of an enormously tall tulip-tree, which stood, with some eight or ten oaks, upon the level, and far surpassed them all, and all other trees which I had then ever seen, in the beauty of its foliage and form, in the wide spread of its branches, and in the general majesty of its appearance. When we reached this tree, Legrand turned to Jupiter, and asked him if he thought he could climb it. The old man seemed a little staggered by the question, and for some moments made no reply. At length he approached the huge trunk, walked slowly around it, and examined it with minute attention. When he had completed his scrutiny, he merely said:

“Yes, massa, Jup climb any tree he ebber see in he life.”

“Then up with you as soon as possible, for it will soon be too dark to see what we are about.”

“How far mus’ go up, massa?” inquired Jupiter.

“Get up the main trunk first, and then I will tell you which way to go—and here—stop! take this beetle with you.”

“De bug, Massa Will!—de goole-bug!” cried the negro, drawing back in dismay—

“what for mus tote de bug way up de tree?—d—n if I do!”

“If you are afraid, Jup, a great big negro-like you, to take hold of a harmless little dead beetle, why you can carry it up by this string—but, if you do not take it up with you in some way, I shall be under the necessity of breaking your head with this shovel.”

“What de matter now, massa?” said Jup, evidently shamed into compliance; “always want for to raise fuss wid old nigger. Was only funnin anyhow. *Me* feered de bug! what I keer for de bug?” Here he took cautiously hold of the extreme end of the string, and, maintaining the insect as far from his person as circumstances would permit, prepared to ascend the tree.

In youth, the tulip-tree, or *Liriodendron Tulipiferum*, the most magnificent of American foresters, has a trunk peculiarly smooth, and often rises to a great height without lateral branches; but, in its riper age, the bark becomes gnarled and uneven, while many short limbs make their appearance on the stem. Thus the difficulty of ascension, in the present case, lay more in semblance than in reality. Embracing the huge cylinder, as closely as possible, with his arms and knees, seizing with his hands some projections, and resting his naked toes upon others, Jupiter, after one or two narrow escapes from falling, at length wriggled himself into the first great fork, and seemed to

consider the whole business as virtually accomplished. The *risk* of the achievement was, in fact, now over, although the climber was some sixty or seventy feet from the ground.

"Which way mus go now, Massa Will?" he asked.

"Keep up the largest branch—the one on this side," said Legrand. The negro obeyed him promptly, and apparently with but little trouble; ascending higher and higher, until no glimpse of his squat figure could be obtained through the dense foliage which enveloped it. Presently his voice was heard in a sort of halloo.

"How much fudder is got for go?"

"How high up are you?" asked Legrand.

"Ebber so fur," replied the negro; "can see de sky fru de top ob de tree."

"Never mind the sky, but attend to what I say. Look down the trunk and count the limbs below you on this side. How many limbs have you passed?"

"One, two, tree, four, fibe—I done pass fibe big limb, massa, 'pon dis side."

"Then go one limb higher."

In a few minutes the voice was heard again, announcing that the seventh limb was attained.

"Now, Jup," cried Legrand, evidently much excited, "I want you to work your way out upon that limb as far as you can. If you see anything strange let me know."

By this time what little doubt I might have entertained of my poor friend's insanity was

put finally at rest. I had no alternative but to conclude him stricken with lunacy, and I became seriously anxious about getting him home. While I was pondering upon what was best to be done, Jupiter's voice was again heard.

"Mos feered for to ventur pon dis limb berry far—'tis dead limb putty much all de way."

"Did you say it was a *dead* limb, Jupiter?" cried Legrand in a quavering voice.

"Yes, massa, him dead as de door-nail—done up for sartin—done departed dis here life."

"What in the name of heaven shall I do?" asked Legrand, seemingly in the greatest distress.

"Do!" said I, glad of an opportunity to interpose a word, "why come home and go to bed. Come now!—that's a fine fellow. It's getting late, and, besides, you remember your promise."

"Jupiter," cried he, without heeding me in the least, "do you hear me?"

"Yes, Massa Will, hear you ebber so plain."

"Try the wood well, then, with your knife, and see if you think it *very* rotten."

"Him rotten, massa, sure nuff," replied the negro in a few moments, "but not so berry rotten as mought be. Mought venture out leetle way pon de limb by myself, dat's true."

"By yourself!—what do you mean?"

"Why, I mean de bug. 'Tis *berry* hebby bug. Spose I drop him down fuss, and den de limb won't break wid just de weight of one nigger."

"You infernal scoundrel!" cried Legrand, apparently much relieved, "what do you mean by telling me such nonsense as that? As sure as you drop that beetle I'll break your neck. Look here, Jupiter, do you hear me?"

"Yes, massa, needn't hollo at poor nigger dat style."

"Well! now listen!—if you will venture out on the limb as far as you think safe, and not let go the beetle, I'll make you a present of a silver dollar as soon as you get down."

"I'm gwine, Massa Will—deed I is," replied the negro very promptly—"mos out to the eend now."

"*Out to the end!*" here fairly screamed Legrand; "do you say you are out to the end of that limb?"

"Soon be to de eend, massa—o-o-o-o-oh! Lorgol-a-marcy! what is dis here pon de tree?"

"Well!" cried Legrand, highly delighted, "what is it?"

"Why 'taint noffin but a skull—somebody bin lef him head up de tree, and de crows done gobble ebery bit ob de meat off."

"A skull, you say!—very well,—how is it fastened to the limb?—what holds it on?"

"Sure nuff, massa; mus look. Why dis berry curious sarcumstance, pon my word—dare's a great big nail in de skull, what fastens ob it on to de tree."

"Well now, Jupiter, do exactly as I tell you—do you hear?"

"Yes, massa."

"Pay attention, then—find the left eye of the skull."

"Hum! hoo! dat's good! why dey ain't no eye lef at all."

"Curse your stupidity! do you know your right hand from your left?"

"Yes, I knows dat—knows all about dat—'tis my lef hand what I chops de wood wid."

"To be sure! you are left-handed; and your left eye is on the same side as your left hand. Now, I suppose, you can find the left eye of the skull, or the place where the left eye has been. Have you found it?"

Here was a long pause. At length the negro asked.

"Is de lef eye of de skull pon de same side as de lef hand of de skull too?—cause de skull aint got not a bit ob a hand at all—nebber mind! I got de lef eye now—here de lef eye! what mus do wid it?"

"Let the beetle drop through it, as far as the string will reach—but be careful and not let go your hold of the string."

"All dat done, Massa Will; mighty easy ting for to put de bug fru de hole—look out for him dare below!"

During this colloquy no portion of Jupiter's person could be seen; but the beetle, which he had suffered to descend, was now visible at the end of the string, and glistened, like a globe of burnished gold, in the last rays of the setting

sun, some of which still faintly illumined the eminence upon which we stood. The *scarbæus* hung quite clear of any branches, and, if allowed to fall, would have fallen at our feet. Legrand immediately took the scythe, and cleared with it a circular space, three or four yards in diameter, just beneath the insect, and, having accomplished this, ordered Jupiter to let go the string and come down from the tree.

Driving a peg, with great nicety, into the ground, at the precise spot where the beetle fell, my friend now produced from his pocket a tape-measure. Fastening one end of this at that point of the trunk of the tree which was nearest the peg, he unrolled it till it reached the peg and thence further unrolled it, in the direction already established by the two points of the tree and the peg, for the distance of fifty feet—Jupiter clearing away the brambles with the scythe. At the spot thus attained a second peg was driven, and about this, as a centre, a rude circle, about four feet in diameter, described. Taking now a spade himself, and giving one to Jupiter and one to me, Legrand begged us to set about digging as quickly as possible.

To speak the truth, I had no especial relish for such amusement at any time, and, at that particular moment, would willingly have declined it; for the night was coming on, and I felt much fatigued with the exercise already taken; but I saw no mode of escape, and was

fearful of disturbing my poor friend's equanimity by a refusal. Could I have depended, indeed upon Jupiter's aid, I would have had no hesitation in attempting to get the lunatic home by force; but I was too well assured of the old negro's disposition, to hope that he would assist me, under any circumstances, in a personal contest with his master. I made no doubt that the latter had been infected with some of the innumerable Southern superstitions about money buried, and that his phantasy had received confirmation by the finding of the *scarabæus*, or, perhaps, by Jupiter's obstinacy in maintaining it to be "a bug of real gold." A mind disposed to lunacy would readily be led away by such suggestions—especially if chiming in with favorite preconceived ideas—and then I called to mind the poor fellow's speech about the beetle's being "the index of his fortune." Upon the whole, I was sadly vexed and puzzled, but, at length, I concluded to make a virtue of necessity—to dig with a good will, and thus the sooner to convince the visionary, by ocular demonstration, of the fallacy of the opinion he entertained.

The lanterns having been lit, we all fell to work with a zeal worthy a more rational cause; and, as the glare fell upon our persons and implements, I could not help thinking how picturesque a group we composed, and how strange and suspicious our labors must have appeared

to any interloper who, by chance, might have stumbled upon our whereabouts.

We dug very steadily for two hours. Little was said; and our chief embarrassment lay in the yelpings of the dog, who took exceeding interest in our proceedings. He, at length, became so obstreperous that we grew fearful of his giving the alarm to some stragglers in the vicinity,—or, rather, this was the apprehension of Legrand;—for myself, I should have rejoiced at any interruption which might have enabled me to get the wanderer home. The noise was, at length, very effectually silenced by Jupiter, who, getting out of the hole with a dogged air of deliberation, tied the brute's mouth up with one of his suspenders, and then returned, with a grave chuckle, to his task.

When the time mentioned had expired, we had reached a depth of five feet, and yet no signs of any treasure became manifest. A general pause ensued, and I began to hope that the farce was at an end. Legrand, however, although evidently much disconcerted, wiped his brow thoughtfully and recommenced. We had excavated the entire circle of four feet diameter, and now we slightly enlarged the limit, and went to the farther depth of two feet. Still nothing appeared. The gold-seeker, whom I sincerely pitied; at length clambered from the pit, with the bitterest disappointment imprinted upon every feature, and proceeded, slowly and reluctantly, to put on his coat,

which he had thrown off at the beginning of his labor. In the meantime I made no remark. Jupiter, at a signal from his master, began to gather up his tools. This done, and the dog having been unmuzzled, we turned in profound silence toward home.

We had taken, perhaps, a dozen steps in this direction, when, with a loud oath, Legrand strode up to Jupiter, and seized him by the collar. The astonished negro opened his eyes and mouth to the fullest extent, let fall the spades, and fell upon his knees.

"You scoundrel!" said Legrand, hissing out the syllables from between his clenched teeth—"you infernal black villain!—speak, I tell you!—answer me this instant, without prevarication!—which—which is your left eye?"

"Oh, my golly, Massa Will! aint dis here my lef eye for sartain?" roared the terrified Jupiter, placing his hand upon his *right* organ of vision, and holding it there with a desperate pertinacity, as if in immediate dread of his master's attempt at a gouge.

"I thought so!—I knew it! hurrah!" vociferated Legrand, letting the negro go and executing a series of curvets and caracols, much to the astonishment of his valet, who, arising from his knees, looked, mutely, from his master to myself, and then from myself to his master.

"Come! we must go back," said the latter, "the game's not up yet;" and he again led the way to the tulip-tree.

"Jupiter," said he, when we reached its foot, "come here! was the skull nailed to the limb with the face outward, or with the face to the limb?"

"De face was out, massa, so dat de crows could get at de eyes good, widout any trouble."

"Well, then, was it this eye or that through which you dropped the beetle?" here Legrand touched each of Jupiter's eyes.

"'Twas dis eye, massa—de lef eye—jis as you tell me," and here it was his right eye that the negro indicated.

"That will do—we must try it again."

Here my friend, about whose madness I now saw, or fancied that I saw, certain indications of method, removed the peg which marked the spot where the beetle fell, to a spot about three inches to the westward of its former position. Taking, now, the tape measure from the nearest point of the trunk to the peg, as before, and continuing the extension in a straight line to the distance of fifty feet, a spot was indicated, removed, by several yards, from the point at which we had been digging.

Around the new position a circle, somewhat larger than in the former instance, was now described, and we again set to work with the spade. I was dreadfully weary, but, scarcely understanding what had occasioned the change in my thoughts, I felt no longer any great aversion from the labor imposed. I had become most unaccountably interested—nay, even ex-

cited. Perhaps there was something, amid all the extravagant demeanor of Legrand—some air of forethought, or of deliberation, which impressed me. I dug eagerly, and now and then caught myself actually looking, with something that very much resembled expectation, for the fancied treasure, the vision of which had demented my unfortunate companion. At a period when such vagaries of thought most fully possessed me, and when we had been at work perhaps an hour and a half, we were again interrupted by the violent howlings of the dog. His uneasiness, in the first instance, had been, evidently, but the result of playfulness or caprice, but he now assumed a bitter and serious tone. Upon Jupiter's again attempting to muzzle him, he made furious resistance, and, leaping into the hole, tore up the mould frantically with his claws. In a few seconds he had uncovered a mass of human bones, forming two complete skeletons, intermingled with several buttons of metal, and what appeared to be the dust of decayed woollen. One or two strokes of a spade upturned the blade of a large Spanish knife, and, as we dug farther, three or four loose pieces of gold and silver coin came to light.

At sight of these the joy of Jupiter could scarcely be restrained, but the countenance of his master wore an air of extreme disappointment. He urged us, however, to continue our exertions, and the words were hardly uttered

when I stumbled and fell forward, having caught the toe of my boot in a large ring of iron that lay half buried in the loose earth.

We now worked in earnest, and never did I pass ten minutes of more intense excitement. During this interval we had fairly unearthed an oblong chest of wood, which, from its perfect preservation and wonderful hardness, had plainly been subjected to some mineralizing process—perhaps that of the bi-chloride of mercury. This box was three feet and a half long, three feet broad, and two and a half feet deep. It was firmly secured by bands of wrought iron, riveted, and forming a kind of open trellis-work over the whole. On each side of the chest, near the top, were three rings of iron—six in all—by means of which a firm hold could be obtained by six persons. Our utmost united endeavors served only to disturb the coffer very slightly in its bed. We at once saw the impossibility of removing so great a weight. Luckily, the sole fastenings of the lid consisted of two sliding bolts. These we drew back—trembling and panting with anxiety. In an instant, a treasure of incalculable value lay gleaming before us. As the rays of the lanterns fell within the pit, there flashed upward a glow and a glare, from a confused heap of gold and of jewels, that absolutely dazzled our eyes.

I shall not pretend to describe the feelings with which I gazed. Amazement was, of course, predominant. Legrand appeared exhausted

with excitement, and spoke very few words. Jupiter's countenance wore, for some minutes, as deadly a pallor as it is possible, in the nature of things, for any negro's visage to assume. He seemed stupefied—thunderstricken. Presently he fell upon his knees in the pit, and burying his naked arms up to the elbows in gold, let them there remain, as if enjoying the luxury of a bath. At length, with a deep sigh, he exclaimed, as if in a soliloquy:

“And dis all cum ob de goole-bug! de putty goole-bug! de poor little goole-bug, what I boosed in that sabage kind ob style! Aint you shamed ob yourself, nigger?—answer me dat!”

It became necessary, at last, that I should arouse both master and valet to the expediency of removing the treasure. It was growing late, and it behooved us to make exertion, that we might get every thing housed before daylight. It was difficult to say what should be done, and much time was spent in deliberation—so confused were the ideas of all. We, finally, lightened the box by removing two thirds of its contents, when we were enabled, with some trouble, to raise it from the hole. The articles taken out were deposited among the brambles, and the dog left to guard them, with strict orders from Jupiter neither, upon any pretence, to stir from the spot. nor to open his mouth until our return. We then hurriedly made for home with the chest; reaching the hut in safety, but after excessive toil, at one

o'clock in the morning. Worn out as we were, it was not in human nature to do more immediately. We rested until two, and had supper; starting for the hills immediately afterward, armed with three stout sacks, which, by good luck, were upon the premises. A little before four we arrived at the pit, divided the remainder of the booty, as equally as might be, among us, and, leaving the holes unfilled, again set out for the hut, at which, for the second time, we deposited our golden burthens, just as the first faint streaks of the dawn gleamed from over the tree-tops in the East.

We were now thoroughly broken down; but the intense excitement of the time denied us repose. After an unquiet slumber of some three or four hours' duration, we arose, as if by preconcert, to make examination of our treasure.

The chest had been full to the brim, and we spent the whole day, and the greater part of the next night, in a scrutiny of its contents. There had been nothing like order or arrangement. Everything had been heaped in promiscuously. Having assorted all with care, we found ourselves possessed of even vaster wealth than we had at first supposed. In coin there was rather more than four hundred and fifty thousand dollars—estimating the value of the pieces, as accurately as we could, by the tables of the period. There was not a particle of silver. All was gold of antique date and of great variety—French, Spanish, and German money, with a

few English guineas, and some counters, of which we had never seen specimens before. There were several very large and heavy coins, so worn that we could make nothing of their inscriptions. There was no American money. The value of the jewels we found more difficulty in estimating. There were diamonds—some of them exceedingly large and fine—a hundred and ten in all, and not one of them small; eighteen rubies of remarkable brilliancy;—three hundred and ten emeralds, all very beautiful; and twenty-one sapphires, with an opal. These stones had all been broken from their settings and thrown loose in the chest. The settings themselves, which we picked out from among the other gold, appeared to have been beaten up with hammers, as if to prevent identification. Besides all this, there was a vast quantity of solid gold ornaments; nearly two hundred massive finger and ear-rings; rich chains—thirty of these, if I remember; eighty-three very large and heavy crucifixes; five gold censers of great value; a prodigious golden punch-bowl, ornamented with richly chased vine-leaves and Bacchanalian figures; with two sword-handles exquisitely embossed, and many other smaller articles which I cannot recollect. The weight of these valuables exceeded three hundred and fifty pounds avoirdupois; and in this estimate I have not included one hundred and ninety-seven superb gold watches; three of the number being worth each five hundred dol-

lars, if one. Many of them were very old, and as timekeepers valueless; the works having suffered, more or less, from corrosion—but all were richly jewelled and in cases of great worth. We estimated the entire contents of the chest, that night, at a million and a half of dollars; and upon the subsequent disposal of the trinkets and jewels (a few being retained for our own use), it was found that we had greatly undervalued the treasure.

When, at length, we had concluded our examination, and the intense excitement of the time had, in some measure, subsided, Legrand, who saw that I was dying with impatience for a solution of this most extraordinary riddle, entered into a full detail of all the circumstances connected with it.

"You remember," said he, "the night when I handed you the rough sketch I had made of the *scarabæus*. You recollect also, that I became quite vexed at you for insisting that my drawing resembled a death's head. When you first made this assertion I thought you were jesting; but afterward I called to mind the peculiar spots on the back of the insect, and admitted to myself that your remark had some little foundation in fact. Still, the sneer at my graphic powers irritated me—for I am considered a good artist—and, therefore, when you handed me the scrap of parchment, I was about to crumple it up and throw it angrily into the fire."

"The scrap of paper, you mean," said I.

"No; it had much of the appearance of paper, and at first I supposed it to be such, but when I came to draw upon it, I discovered it at once to be a piece of very thin parchment. It was quite dirty, you remember. Well, as I was in the very act of crumpling it up, my glance fell upon the sketch at which you had been looking, and you may imagine my astonishment when I perceived, in fact, the figure of a death's-head just where, it seemed to me, I had made the drawing of the beetle. For a moment I was too much amazed to think with accuracy. I knew that my design was very different in detail from this—although there was a certain similarity in general outline. Presently I took a candle, and seating myself at the other end of the room, proceeded to scrutinize the parchment more closely. Upon turning it over, I saw my own sketch upon the reverse, just as I had made it. My first idea, now, was mere surprise at the really remarkable similarity of outline—at the singular coincidence involved in the fact that, unknown to me, there should have been a skull upon the other side of the parchment, immediately beneath my figure of the *scarabæus*, and that this skull, not only in outline, but in size, should so closely resemble my drawing. I say the singularity of this coincidence absolutely stupefied me for a time. This is the usual effect of such coincidences. The mind struggles to establish a

connection—a sequence of cause and effect—and, being unable to do so, suffers a species of temporary paralysis. But, when I recovered from this stupor, there dawned upon me gradually a conviction which startled me even far more than the coincidence. I began distinctly, positively, to remember that there had been *no* drawing upon the parchment, when I made my sketch of the *scarabæus*. I became perfectly certain of this; for I recollected turning up first one side and then the other, in search of the cleanest spot. Had the skull been then there, of course I could not have failed to notice it. Here was indeed a mystery which I felt it impossible to explain; but, even at that early moment, there seemed to glimmer, faintly, within the most remote and secret chambers of my intellect, a glow-worm-like conception of that truth which last night's adventure brought to so magnificent a demonstration. I arose at once, and putting the parchment securely away, dismissed all further reflection until I should be alone.

“When you had gone, and when Jupiter was fast asleep, I betook myself to a more methodical investigation of the affair. In the first place I considered the manner in which the parchment had come into my possession. The spot where we discovered the *scarabæus* was on the coast of the main-land, about a mile eastward of the island, and but a short distance above high-water mark. Upon my taking hold

of it, it gave me a sharp bite, which caused me to let it drop. Jupiter, with his accustomed caution, before seizing the insect, which had flown toward him, looked about him for a leaf, or something of that nature, by which to take hold of it. It was at this moment that his eyes, and mine also, fell upon the scrap of parchment, which I then supposed to be paper. It was lying half buried in the sand, a corner sticking up. Near the spot where we found it, I observed the remnants of the hull of what appeared to have been a ship's long-boat. The wreck seemed to have been there for a very great while; for the resemblance to boat timbers could scarcely be traced.

“Well, Jupiter picked up the parchment, wrapped the beetle in it, and gave it to me. Soon afterward we turned to go home, and on the way met Lieutenant G——. I showed him the insect, and he begged me to let him take it to the fort. Upon my consenting, he thrust it forthwith into his waistcoat pocket, without the parchment in which it had been wrapped, and which I had continued to hold in my hand during his inspection. Perhaps he dreaded my changing my mind, and thought it best to make sure of the prize at once—you know how enthusiastic he is on all subjects connected with Natural History. At the same time, without being conscious of it, I must have deposited the parchment in my own pocket.

“You remember that when I went to the table, for the purpose of making a sketch of the beetle, I found no paper where it was usually kept. I looked in the drawer, and found none there. I searched my pockets, hoping to find an old letter, when my hand fell upon the parchment. I thus detail the precise mode in which it came into my possession; for the circumstances impressed me with peculiar force.

“No doubt you will think me fanciful—but I had already established a kind of *connection*. I had put together two links of a great chain. There was a boat lying upon a sea-coast, and not far from the boat was a parchment—*not a paper*—with a skull depicted upon it. You will, of course, ask ‘where is the connection?’ I reply that the skull, or death’s-head, is the well-known emblem of the pirate. The flag of the death’s-head is hoisted in all engagements.

“I have said that the scrap was parchment, and not paper. Parchment is durable—almost imperishable. Matters of little moment are rarely consigned to parchment; since, for the mere ordinary purposes of drawing or writing, it is not nearly so well adapted as paper. This reflection suggested some meaning—some relevancy—in the death’s-head. I did not fail to observe, also, the *form* of the parchment. Although one of its corners had been, by some accident, destroyed, it could be seen that the original form was oblong. It was just such a slip,

indeed, as might have been chosen for a memorandum—for a record of something to be long remembered and carefully preserved.”

“But,” I interposed, “you say that the skull was *not* upon the parchment when you made the drawing of the beetle. How then do you trace any connection between the boat and the skull—since this latter, according to your own admission, must have been designed (God only knows how or by whom) at some period subsequent to your sketching the *scarabæus*?”

“Ah, hereupon turns the whole mystery; although the secret, at this point, I had comparatively little difficulty in solving. My steps were sure, and could afford but a single result. I reasoned, for example, thus: When I drew the *scarabæus*, there was no skull apparent upon the parchment. When I had completed the drawing I gave it to you, and observed you narrowly until you returned it. *You*, therefore, did not design the skull, and no one else was present to do it. Then it was not done by human agency. And nevertheless it was done.

“At this stage of my reflections I endeavored to remember, and *did* remember, with entire distinctness, every incident which occurred about the period in question. The weather was chilly (oh, rare and happy accident!), and a fire was blazing upon the hearth. I was heated with exercise and sat near the table. You, however, had drawn a chair close to the chimney. Just as I placed the parchment in

your hand, and as you were in the act of inspecting it, Wolf, the Newfoundland, entered, and leaped upon your shoulders. With your left hand you caressed him and kept him off, while your right, holding the parchment, was permitted to fall listlessly between your knees, and in close proximity to the fire. At one moment I thought the blaze had caught it, and was about to caution you, but, before I could speak, you had withdrawn it, and were engaged in its examination. When I considered all these particulars, I doubted not for a moment that *heat* had been the agent in bringing to light, upon the parchment, the skull which I saw designed upon it. You are well aware that chemical preparations exist, and have existed time out of mind, by means of which it is possible to write upon either paper or vellum, so that the characters shall become visible only when subjected to the action of fire. Zaffre, digested in *aqua regia*, and diluted with four times its weight of water, is sometimes employed; a green tint results. The regulus of cobalt, dissolved in spirit of nitre, gives a red. These colors disappear at longer or shorter intervals after the material written upon cools, but again become apparent upon the re-application of heat.

“I now scrutinized the death’s-head with care. Its outer edges—the edges of the drawing nearest the edge of the vellum—were far more *distinct* than the others. It was clear

that the action of the caloric had been imperfect or unequal. I immediately kindled a fire, and subjected every portion of the parchment to a glowing heat. At first, the only effect was the strengthening of the faint lines in the skull; but, upon persevering in the experiment, there became visible, at the corner of the slip, diagonally opposite to the spot in which the death's-head was delineated, the figure of what I at first supposed to be a goat. A closer scrutiny, however, satisfied me that it was intended for a kid."

"Ha! ha!" said I, "to be sure I have no right to laugh at you—a million and a half of money is too serious a matter for mirth—but you are not about to establish a third link in your chain—you will not find any especial connection between your pirates and a goat—pirates, you know, have nothing to do with goats; they appertain to the farming interest."

"But I have just said that the figure was *not* that of a goat."

"Well, a kid then—pretty much the same thing."

"Pretty much, but not altogether," said Legrand. "You may have heard of one *Captain Kidd*. I at once looked upon the figure of the animal as a kind of punning or hieroglyphical signature. I say signature; because its position upon the vellum suggested this idea. The death's-head at the corner diagonally oppo-

site, had, in the same manner, the air of a stamp, or seal. But I was sorely put out by the absence of all else—of the body to my imagined instrument—of the text for my context.”

“I presume you expected to find a letter between the stamp and the signature.”

“Something of that kind. The fact is, I felt irresistibly impressed with a presentiment of some vast good fortune impending. I can scarcely say why. Perhaps, after all, it was rather a desire than an actual belief;—but do you know that Jupiter’s silly words, about the bug being of solid gold, had a remarkable effect upon my fancy? And then the series of accidents and coincidents—these were so *very* extraordinary. Do you observe how mere an accident it was that these events should have occurred upon the *sole* day of all the year in which it has been, or may be sufficiently cool for fire, and that without the fire, or without the intervention of the dog at the precise moment in which he appeared, I should never have become aware of the death’s-head, and so never the possessor of the treasure.”

“But proceed—I am all impatience.”

“Well; you have heard, of course, the many stories current—the thousand vague rumors afloat about money buried, somewhere upon the Atlantic coast, by Kidd and his associates. These rumors must have had some foundation in fact. And that the rumors have existed so

long and so continuous, could have resulted, it appeared to me, only from the circumstance of the buried treasures still *remaining* entombed. Had Kidd concealed his plunder for a time, and afterward reclaimed it, the rumors would scarcely have reached us in their present unvarying form. You will observe that the stories told are all about money-seekers, not about money-finders. Had the pirate recovered his money, there the affair would have dropped. It seemed to me that some accident—say the loss of a memorandum indicating its locality—had deprived him of the means of recovering it, and that this accident had become known to his followers, who otherwise might never have heard that the treasure had been concealed at all, and who, busying themselves in vain, because unguided, attempts to regain it, had given first birth, and then universal currency, to the reports which are now so common. Have you ever heard of any important treasure being unearthed along the coast?"

"Never."

"But that Kidd's accumulations were immense, is well known. I took it for granted, therefore, that the earth still held them; and you will scarcely be surprised when I tell you that I felt a hope, nearly amounting to certainty, that the parchment so strangely found involved a lost record of the place of deposit."

"But how did you proceed?"

"I held the vellum again to the fire, after increasing the heat, but nothing appeared. I now thought it possible that the coating of dirt might have something to do with the failure: so I carefully rinsed the parchment by pouring warm water over it, and, having done this, I placed it in a tin pan, with the skull downward, and put the pan upon a furnace of lighted charcoal. In a few minutes, the pan having become thoroughly heated, I removed the slip, and, to my inexpressible joy, found it spotted, in several places, with what appeared to be figures arranged in lines. Again I placed it in the pan, and suffered it to remain another minute. Upon taking it off, the whole was just as you see it now."

Here Legrand, having re-heated the parchment, submitted it to my inspection. The following characters were rudely traced, in a red tint, between the death's-head and the goat:

"53†††305))6\*;4826)4†)4†.;806\*;48†8¶(60))85:  
1†(;†\*8†83(88)5\*†;46(;88\*96\*?;8)\*†(;485);5\*  
†2:\*†(;4956\*2(5 \* — 4)8¶8\*;4069285);)6†8)4  
††;1(†9;48081;8:8†1;48†85;4)485†528806\*81(  
†9;48;(88;4(†?34;48)4†;161;;188;†?;"

"But," said I, returning him the slip, "I am as much in the dark as ever. Were all the jewels of Golconda awaiting me upon my solution of this enigma, I am quite sure that I should be unable to earn them."

"And yet," said Legrand, "the solution is by no means so difficult as you might be led to imagine from the first hasty inspection of the characters. These characters, as any one might readily guess, form a cipher—that is to say, they convey a meaning; but then from what is known of Kidd, I could not suppose him capable of constructing any of the more abstruse cryptographs. I made up my mind, at once, that this was of a simple species—such, however, as would appear, to the crude intellect of the sailor, absolutely insoluble without the key."

"And you really solved it?"

"Readily; I have solved others of an abstruseness ten thousand times greater. Circumstances, and a certain bias of mind, have led me to take interest in such riddles, and it may well be doubted whether human ingenuity can construct an enigma of the kind which human ingenuity may not, by proper application, resolve. In fact, having once established connected and legible characters, I scarcely gave a thought to the mere difficulty of developing their import.

"In the present case—indeed in all cases of secret writing—the first question regards the *language* of the cipher; for the principles of solution, so far, especially, as the more simple ciphers are concerned, depend upon, and are varied by, the genius of the particular idiom. In general, there is no alternative but experiment (directed by probabilities) of every tongue

known to him who attempts the solution, until the true one be attained. But, with the cipher now before us all difficulty was removed by the signature. The pun upon the word 'Kidd' is appreciable in no other language than the English. But for this consideration I should have begun my attempts with the Spanish and French, as the tongues in which a secret of this kind would most naturally have been written by a pirate of the Spanish main. As it was, I assumed the cryptograph to be English.

"You observe there are no divisions between the words. Had there been divisions the task would have been comparatively easy. In such cases I should have commenced with a collation and analysis of the shorter words, and, had a word of a single letter occurred, as is most likely, (*a* or *I*, for example,) I should have considered the solution as assured. But, there being no division, my first step was to ascertain the predominant letters, as well as the least frequent. Counting all, I constructed a table thus:

Of the character 8 there are 33.

;	"	26.
4	"	19.
†)	"	16.
*	"	13.
5	"	12.
6	"	11.
† 1	"	8.
~	"	6.

9 2	"	5.
: 3	"	4.
?	"	3.
¶	"	2.
— .	"	1.

"Now, in English, the letter which most frequently occurs is *e*. Afterward, the succession runs thus: *a o i d h n r s t u y c f g l m w b k p q x z*. *E* predominates so remarkably, that an individual sentence of any length is rarely seen, in which it is not the prevailing character.

"Here, then, we have, in the very beginning, the groundwork for something more than a mere guess. The general use which may be made of the table is obvious—but, in this particular cipher, we shall only very partially require its aid. As our predominant character is 8, we will commence by assuming it as the *e* of the natural alphabet. To verify the supposition, let us observe if the 8 be seen often in couples—for *e* is doubled with great frequency in English—in such words, for example, as 'meet,' 'fleet,' 'speed,' 'seen,' 'been,' 'agree,' etc. In the present instance we see it doubled no less than five times, although the cryptograph is brief.

"Let us assume 8, then, as *e*. Now, of all words in the language, 'the' is most usual; let us see, therefore, whether there are not repetitions of any three characters, in the same order of collocation, the last of them being 8. If we discover repetitions of such letters, so arranged, they will most probably represent the word

‘the.’ Upon inspection, we find no less than seven such arrangements, the characters being ;48. We may, therefore, assume that ; represents *t*, 4 represents *h*, and 8 represents *e*—the last being now well confirmed. Thus a great step has been taken.

“But, having established a single word, we are enabled to establish a vastly important point; that is to say, several commencements and terminations of other words. Let us refer, for example, to the last instance but one, in which the combination ;48 occurs—not far from the end of the cipher. We know that the; immediately ensuing is the commencement of a word, and, of the six characters succeeding this ‘the,’ we are cognizant of no less than five. Let us set these characters down, thus, by the letters we know them to represent, leaving a space for the unknown—

t ceth.

“Here we are enabled, at once, to discard the ‘*th*,’ as forming no portion of the word commencing with the first *t*; since, by experiment of the entire alphabet for a letter adapted to the vacancy, we perceive that no word can be formed of which this *th* can be a part. We are thus narrowed into

t ee,

and, going through the alphabet, if necessary, as

before, we arrive at the word 'tree,' as the sole possible reading. We thus gain another letter, *r*, represented by (, with the words 'the tree' in juxtaposition.

"Looking beyond these words, for a short distance, we again see the combination ;48, and employ it by way of *termination* to what immediately precedes. We have thus this arrangement:

the tree ;4(‡?34 the,

or, substituting the natural letters, where known, it reads thus:

the tree thr‡?3h the.

"Now, if, in place of the unknown characters, we leave blank spaces, or substitute dots, we read thus:

the tree thr...h the,

when the word '*through*' makes itself evident at once. But this discovery gives us three new letters, *o*, *u*, and *g*, represented by ‡, ?, and 3.

"Looking now, narrowly, through the cipher for combinations of known characters, we find, not very far from the beginning, this arrangement,

83(88, or egree,

which plainly, is the conclusion of the word

'degree,' and gives us another letter, *d*, represented by †.

"Four letters beyond the word 'degree,' we perceive the combination

;46( ;88.

"Translating the known characters, and representing the unknown by dots, as before, we read thus:

th.rtee,

an arrangement immediately suggestive of the word 'thirteen,' and again furnishing us with two new characters, *i* and *n*, represented by 6 and \*.

"Referring, now, to the beginning of the cryptograph, we find the combination,

53‡‡‡.

"Translating as before, we obtain

.good,

which assures us that the first letter is *A*, and that the first two words are 'A good.'

"It is now time that we arrange our key, as far as discovered, in a tabular form, to avoid confusion. It will stand thus:

5	represents	a
†	"	d
8	"	e
3	"	g
4	"	h
6	"	i
*	"	n
‡	"	o
(	"	r
;	"	t
?	"	u

"We have, therefore, no less than eleven of the most important letters represented, and it will be unnecessary to proceed with the details of the solution. I have said enough to convince you that ciphers of this nature are readily soluble, and to give you some insight into the *rationale* of their development. But be assured that the specimen before us appertains to the very simplest species of cryptograph. It now only remains to give you the full translation of the characters upon the parchment, as unriddled. Here it is:

*"A good glass in the bishop's hostel in the devil's seat forty-one degrees and thirteen minutes northeast and by north main branch seventh limb east side shoot from the left eye of the death's-head a bee-line from the tree through the shot fifty feet out.'"*

"But," said I, "the enigma seems still in as

bad a condition as ever. How is it possible to extort a meaning from all this jargon about 'devil's seats,' death's-heads,' and 'bishop's hotels?'"

"I confess," replied Legrand, "that the matter still wears a serious aspect, when regarded with a casual glance. My first endeavor was to divide the sentence into the natural division intended by the cryptographist."

"You mean, to punctuate it?"

"Something of that kind."

"But how was it possible to effect this?"

"I reflected that it had been a *point* with the writer to run his words together without division, so as to increase the difficulty of solution. Now, a not over-acute man, in pursuing such an object, would be nearly certain to overdo the matter. When, in the course of his composition, he arrived at a break in his subject which would naturally require a pause, or a point, he would be exceedingly apt to run his characters, at this place, more than usually close together. If you will observe the MS., in the present instance, you will easily detect five such cases of unusual crowding. Acting upon this hint, I made the division thus:

*"A good glass in the bishop's hostel in the devil's seat—forty-one degrees and thirteen minutes—northeast and by north—main branch seventh limb east side—shoot from the*

*left eye of the death's-head—a bee-line from the tree through the shot fifty feet out.' ”*

“ Even this division,” said I, “ leaves me still in the dark.”

“ It left me also in the dark,” replied Legrand, “ for a few days; during which I made diligent inquiry in the neighborhood of Sullivan’s Island, for any building which went by name of the ‘ Bishop’s Hotel; ’ for, of course, I dropped the obsolete word ‘ hostel. ’ Gaining no information on the subject, I was on the point of extending my sphere of search, and proceeding in a more systematic manner, when, one morning, it entered into my head, quite suddenly, that this ‘ Bishop’s Hostel ’ might have some reference to an old family, of the name of Bessop, which, time out of mind, had held possession of an ancient manor-house, about four miles to the northward of the island. I accordingly went over to the plantation, and re-instituted my inquiries among the older negroes of the place. At length one of the most aged of the women said that she had heard of such a place as *Bessop’s Castle*, and thought that she could guide me to it, but that it was not a castle, nor a tavern, but a high rock.

“ I offered to pay her well for her trouble, and, after some demur, she consented to accompany me to the spot. We found it without much difficulty, when, dismissing her, I proceeded to examine the place. The ‘ castle ’ consisted of an irregular assemblage of cliffs and

rocks—one of the latter being quite remarkable for its height as well as for its insulated and artificial appearance. I clambered to its apex, and then felt much at a loss as to what should be next done.

“While I was busied in reflection, my eyes fell upon a narrow ledge in the eastern face of the rock, perhaps a yard below the summit upon which I stood. This ledge projected about eighteen inches, and was not more than a foot wide, while a niche in the cliff just above it gave it a rude resemblance to one of the low-backed chairs used by our ancestors. I made no doubt that here was the ‘devil’s-seat’ alluded to in the MS., and now I seemed to grasp the full secret of the riddle.

“The ‘good glass,’ I knew, could have reference to nothing but a telescope; for the word ‘glass’ is rarely employed in any other sense by seamen. Now here, I at once saw, was a telescope to be used, and a definite point of view, *admitting no variation*, from which to use it. Nor did I hesitate to believe that the phrases, ‘forty-one degrees and thirteen minutes,’ and ‘northeast and by north,’ were intended as directions for the levelling of the glass. Greatly excited by these discoveries, I hurried home, procured a telescope, and returned to the rock.

“I let myself down to the ledge, and found that it was impossible to retain a seat upon it except in one particular position. This fact

confirmed my preconceived idea. I proceeded to use the glass. Of course, the 'forty-one degrees and thirteen minutes' could allude to nothing but elevation above the visible horizon, since the horizontal direction was clearly indicated by the words, 'northeast and by north.' This latter direction I at once established by means of a pocket-compass; then, pointing the glass as nearly at an angle of forty-one degrees of elevation as I could do it by guess, I moved it cautiously up or down, until my attention was arrested by a circular rift or opening in the foliage of a large tree that overtopped its fellows in the distance. In the centre of this rift I perceived a white spot, but could not, at first, distinguish what it was. Adjusting the focus of the telescope, I again looked, and now made it out to be a human skull.

"Upon this discovery I was so sanguine as to consider the enigma solved; for the phrase 'main branch, seventh limb, east side,' could refer only to the position of the skull upon the tree, while 'shoot from the left eye of the death's-head' admitted, also, of but one interpretation, in regard to a search for buried treasure. I perceived that the design was to drop a bullet from the left eye of the skull, and that a bee-line, or, in other words, a straight line, drawn from the nearest point of the trunk through the shot' (or the spot where the bullet fell), and thence extended to a distance of fifty feet, would indicate a definite point—and

beneath this point I thought it at least *possible* that a deposit of value lay concealed."

"All this," I said, "is exceedingly clear, and, although ingenious, still simple and explicit. When you left the Bishop's Hotel, what then?"

"Why, having carefully taken the bearings of the tree, I turned homeward. The instant that I left 'the devil's-seat,' however, the circular rift vanished; nor could I get a glimpse of it afterward, turn as I would. What seems to me the chief ingenuity in this whole business, is the fact (for repeated experiment has convinced me it is a fact) that the circular opening in question is visible from no other attainable point of view than that afforded by the narrow ledge upon the face of the rock.

"In this expedition to the 'Bishop's Hotel' I had been attended by Jupiter, who had, no doubt, observed, for some weeks past, the abstraction of my demeanor, and took especial care not to leave me alone. But, on the next day, getting up very early, I contrived to give him the slip, and went into the hills in search of the tree. After much toil I found it. When I came home at night my valet proposed to give me a flogging. With the rest of the adventure I believe you are as well acquainted as myself."

"I suppose," said I, "you missed the spot, in the first attempt at digging, through Jupiter's stupidity in letting the bug fall through

the right instead of through the left eye of the skull."

"Precisely. This mistake made a difference of about two inches and a half in the 'shot'—that is to say, in the position of the peg nearest the tree; and had the treasure been *beneath* the 'shot,' the error would have been of little moment; but 'the shot,' together with the nearest point of the tree, were merely two points for the establishment of a line of direction; of course the error, however trivial in the beginning, increased as we proceeded with the line, and by the time we had gone fifty feet threw us quite off the scent. But for my deep-seated impressions that treasure was here somewhere actually buried, we might have had all our labor in vain."

"But your grandiloquence, and your conduct in swinging the beetle—how excessively odd! I was sure you were mad. And why did you insist upon letting fall the bug, instead of a bullet, from the skull?"

"Why, to be frank, I felt somewhat annoyed by your evident suspicions touching my sanity, and so resolved to punish you quietly, in my own way, by a little bit of sober mystification. For this reason I swung the beetle, and for this reason I let it fall from the tree. An observation of yours about its great weight suggested the latter idea."

"Yes, I perceive; and now there is only one

point which puzzles me. What are we to make of the skeletons found in the hole?"

"That is a question I am no more able to answer than yourself. There seems, however, only one plausible way of accounting for them—and yet it is dreadful to believe in such atrocity as my suggestion would imply. It is clear that Kidd—if Kidd indeed secreted this treasure, which I doubt not—it is clear that he must have had assistance in the labor. But this labor concluded, he may have thought it expedient to remove all participants in his secret. Perhaps a couple of blows with a mattock were sufficient, while his coadjutors were busy in the pit; perhaps it required a dozen—who shall tell?"

## FOUR BEASTS IN ONE;

### THE HOMO-CAMELEOPARD.

Chacun a ses vertus.

—*Crébillon's Xerxes.*

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ANTIOCHUS EPIPHANES is very generally looked upon as the Gog of the prophet Ezekiel. This honor is, however, more properly attributable to Cambyzes, the son of Cyrus. And, indeed, the character of the Syrian monarch does by no means stand in need of any adventitious embellishment. His accession to the throne, or rather his usurpation of the sovereignty, a hundred and seventy-one years before the coming of Christ; his attempt to plunder the temple of Diana at Ephesus; his implacable hostility to the Jews; his pollution of the Holy of Holies; and his miserable death at Taba, after a tumultuous reign of eleven years, are circumstances of a prominent kind, and therefore more generally noticed by the historians of his time than the impious, dastardly, cruel, silly, and whimsical achievements which make up the sum total of his private life and reputation.

\* \* \* \* \*

Let us suppose, gentle reader, that it is now the year of the world three thousand eight hundred and thirty, and let us, for a few minutes, imagine ourselves at that most grotesque habitation of man, the remarkable city of Antioch. To be sure there were, in Syria and other countries, sixteen cities of that appellation, besides the one to which I more particularly allude. But *ours* is that which went by the name of Antiochia Epidaphne, from its vicinity to the little village of Daphne, where stood a temple to that divinity. It was built (although about this matter there is some dispute) by Seleucus Nicanor, the first king of the country after Alexander the Great, in memory of his father Antiochus, and became immediately the residence of the Syrian monarchy. In the flourishing times of the Roman Empire it was the ordinary station of the prefect of the eastern provinces; and many of the emperors of the Queen city (among whom may be mentioned, especially, Verus and Valens) spent here the greater part of their time. But I perceive we have arrived at the city itself. Let us ascend this battlement, and throw our eyes upon the town and neighboring country.

“What broad and rapid river is that which forces its way, with innumerable falls, through the mountainous wilderness, and finally through the wilderness of buildings?”

That is the Orontes, and it is the only water in sight, with the exception of the Mediter-

anean, which stretches, like a broad mirror, about twelve miles off to the southward. Every one has seen the Mediterranean; but let me tell you, there are few who have had a peep at Antioch. By few, I mean, few who, like you and me, have had, at the same time, the advantages of a modern education. Therefore cease to regard that sea, and give your whole attention to the mass of houses that lie beneath us. You will remember that it is now the year of the world three thousand eight hundred and thirty. Were it later—for example, were it the year of our Lord eighteen hundred and forty-five—we should be deprived of this extraordinary spectacle. In the nineteenth century Antioch is—that is to say, Antioch *will be*—in a lamentable state of decay. It will have been, by that time, totally destroyed, at three different periods, by three successive earthquakes. Indeed, to say the truth, what little of its former self may then remain, will be found in so desolate and ruinous a state that the patriarch shall have removed his residence to Damascus. This is well. I see you profit by my advice, and are making the most of your time in inspecting the premises—in

—satisfying your eyes  
With the memorials and the things of fame  
That most renown this city.—

I beg pardon; I had forgotten that Shakespeare will not flourish for seventeen hundred

and fifty years to come. But does not the appearance of Epidaphne justify me in calling it *grotesque*?

"It is well fortified; and in this respect is as much indebted to nature as to art."

Very true.

"There are a prodigious number of stately palaces."

There are.

"And the numerous temples, sumptuous and magnificent, may bear comparison with the most lauded of antiquity."

All this I must acknowledge. Still there is an infinity of mud huts, and abominable hovels. We cannot help perceiving abundance of filth in every kennel, and, were it not for the overpowering fumes of idolatrous incense, I have no doubt we should find a most intolerable stench. Did you ever behold streets so insufferably narrow, or houses so miraculously tall? What a gloom their shadows cast upon the ground! It is well the swinging lamps in those endless colonnades are kept burning throughout the day; we should otherwise have the darkness of Egypt in the time of her desolation.

"It is certainly a strange place! What is the meaning of yonder singular building? See! it towers above all others, and lies to the eastward of what I take to be the royal palace!"

That is the new Temple of the Sun, who is adored in Syria under the title of Elah Ga-

balah. Hereafter a very notorious Roman emperor will institute this worship in Rome, and thence derive a cognomen, Heliogabalus. I dare say you would like to take a peep at the divinity of the temple. You need not look up at the heavens; his Sunship is not there—at least not the Sunship adored by the Syrians. *That* deity will be found in the interior of yonder building. He is worshipped under the figure of a large stone pillar terminating at the summit in a cone or *pyramid*, whereby is denoted Fire.

“Hark!—behold!—who *can* those ridiculous beings be, half naked, with their faces painted, shouting and gesticulating to the rabble?”

Some few are mountebanks. Others more particularly belong to the race of philosophers. The greatest portion, however—those especially who belabor the populace with clubs—are the principal courtiers of the palace, executing, as in duty bound, some laudable comicality of the king’s.

“But what have we here? Heavens! the town is swarming with wild beasts! How terrible a spectacle!—how dangerous a peculiarity!”

Terrible if you please; but not in the least degree dangerous. Each animal, if you will take the pains to observe, is following, very quietly, in the wake of its master. Some few, to be sure, are led with a rope about the neck, but these are chiefly the lesser or timid species.

The lion, the tiger, and the leopard are entirely without restraint. They have been trained without difficulty to their present profession, and attend upon their respective owners in the capacity of *valets-de-chambre*. It is true, there are occasions when Nature asserts her violated dominion;—but then the devouring of a man-at-arms, or the throttling of a consecrated bull, is a circumstance of too little moment to be more than hinted at in Epidaphne.

“But what extraordinary tumult do I hear? Surely this is a loud noise even for Antioch! It argues some commotion of unusual interest.”

Yes—undoubtedly. The king has ordered some novel spectacle—some gladiatorial exhibition at the hippodrome—or perhaps the massacre of the Scythian prisoners—or the conflagration of his new palace—or the tearing down of a handsome temple—or, indeed, a bonfire of a few Jews. The uproar increases. Shouts of laughter ascend the skies. The air becomes dissonant with wind instruments, and horrible with the clamor of a million throats. Let us descend, for the love of fun, and see what is going on! This way—be careful! Here we are in the principal street, which is called the street of Timarchus. The sea of people is coming this way, and we shall find a difficulty in stemming the tide. They are pouring through the alley of Heraclides, which leads directly from the palace—therefore the king is most probably

among the rioters. Yes—I hear the shouts of the herald proclaiming his approach in the pompous phraseology of the East. We shall have a glimpse of his person as he passes by the temple of Ashimah. Let us ensconce ourselves in the vestibule of the sanctuary; he will be here anon. In the meantime let us survey this image. What is it? Oh! it is the god Ashimah in proper person. You perceive, however, that he is neither a lamb, nor a goat, nor a satyr; neither has he much resemblance to the Pan of the Arcadians. Yet all these appearances have been given—I beg pardon—*will* be given—by the learned of future ages, to the Ashimah of the Syrians. Put on your spectacles, and tell me what it is. What is it?

“Bless me! it is an ape!”

True—a baboon; but by no means the less a deity. His name is a derivation of the Greek *Simia*—what great fools are antiquarians! But see!—see!—yonder scampers a ragged little urchin. Where is he going? What is he bawling about? What does he say? Oh! he says the king is coming in triumph; that he is dressed in state; that he has just finished putting to death, with his own hand, a thousand chained Israelitish prisoners! For this exploit the ragamuffin is lauding him to the skies! Hark! here comes a troop of a similar description. They have made a Latin hymn upon the valor of the king, and are singing it as they go:

Mille, mille, mille,  
 Mille, mille, mille,  
 Decollavimus, unus homo !  
 Mille, mille, mille, mille, decollavimus !  
 Mille, mille, mille,  
 Vivat qui mille mille occidit !  
 Tantum vini habet nemo  
 Quantum sanguinis effudit ! \*

Which may be thus paraphrased :

A thousand, a thousand, a thousand,  
 A thousand, a thousand, a thousand,  
 We, with one warrior, have slain !  
 A thousand, a thousand, a thousand, a thousand.  
 Sing a thousand over again !  
     Soho !—let us sing  
     Long life to our king,  
 Who knocked over a thousand so fine !  
     Soho !—let us roar,  
     He has given us more  
     Red gallons of gore  
 Than all Syria can furnish of wine !

“ Do you hear that flourish of trumpets ? ”

Yes—the king is coming ! See ! the people are aghast with admiration, and lift up their eyes to the heavens in reverence ! He comes !—he is coming !—there he is !

“ Who ?—where ?—the king ?—I do not behold him ;—cannot say that I perceive him. ”

Then you must be blind.

“ Very possible. Still I see nothing but a tumultuous mob of idiots and madmen, who are busy in prostrating themselves before a gigantic cameleopard, and endeavoring to obtain a kiss of the animal’s hoofs. See ! the beast has very justly kicked one of the rabble over—and another—and another—and another. Indeed,

\* Flavius Vopiscus says, that the hymn here introduced was sung by the rabble upon the occasion of Aurelian, in the Sarmatic war, having slain, with his own hand, nine hundred and fifty of the enemy.

I cannot help admiring the animal for the excellent use he is making of his feet."

Rabble, indeed!—why these are the noble and free citizens of Epidaphne! Beast, did you say?—take care that you are not overheard. Do you not perceive that the animal has the visage of a man? Why, my dear sir, that cameleopard is no other than Antiochus Epiphanes—Antiochus the Illustrious, King of Syria, and the most potent of all the autocrats of the East! It is true, that he is entitled, at times, Antiochus Epimanes—Antiochus the madman—but that is because all people have not the capacity to appreciate his merits. It is also certain that he is at present ensconced in the hide of a beast, and is doing his best to play the part of a cameleopard; but this is done for the better sustaining his dignity as king. Besides, the monarch is of gigantic stature, and the dress is therefore neither unbecoming nor over large. We may, however, presume he would not have adopted it but for some occasion of especial state. Such, you will allow, is the massacre of a thousand Jews. With how superior a dignity the monarch perambulates on all fours! His tail, you perceive, is held aloft by his two principal concubines, Elline and Argelais; and his whole appearance would be infinitely prepossessing, were it not for the protuberance of his eyes, which will certainly start out of his head, and the queer color of his face,

which has become nondescript from the quantity of wine he has swallowed. Let us follow him to the hippodrome, whither he is proceeding, and listen to the song of triumph which he is commencing:

Who is king but Epiphanes?  
 Say—do you know?  
 Who is king but Epiphanes?  
 Bravo!—bravo!  
 There is none but Epiphanes,  
 No—there is none:  
 So tear down the temples,  
 And put out the sun!

Well and strenuously sung! The populace are hailing him “Prince of Poets,” as well as “Glory of the East,” “Delight of the Universe,” and “Most Remarkable of Cameleopards.” They have *encored* his effusion, and—do you hear?—he is singing it over again. When he arrives at the hippodrome, he will be crowned with the poetic wreath, in anticipation of his victory at the approaching Olympics.

“But, good Jupiter! what is the matter in the crowd behind us?”

Behind us, did you say?—oh! ah!—I perceive. My friend, it is well that you spoke in time. Let us get into a place of safety as soon as possible. Here!—let us conceal ourselves in the arch of this aqueduct, and I will inform you presently of the origin of the commotion. It has turned out as I have been anticipating. The singular appearance of the cameleopard with the head of a man, has, it seems, given

offence to the notions of propriety entertained in general by the wild animals domesticated in the city. A mutiny has been the result; and, as is usual upon such occasions, all human efforts will be of no avail in quelling the mob. Several of the Syrians have already been devoured; but the general voice of the four-footed patriots seems to be for eating up the cameleopard. "The Prince of Poets," therefore, is upon his hinder legs running for his life. His courtiers have left him in the lurch, and his concubines have followed so excellent an example. "Delight of the Universe," thou art in a sad predicament! "Glory of the East," thou art in danger of mastication! Therefore never regard so piteously thy tail; it will undoubtedly be draggled in the mud, and for this there is no help. Look not behind thee, then, at its unavoidable degradation; but take courage, ply thy legs with vigor, and scud for the hippodrome! Remember that thou art Antiochus Epiphanes. Antiochus the Illustrious! —also "Prince of Poets," "Glory of the East," "Delight of the Universe," and "Most Remarkable of Cameleopards!" Heavens! what a power of speed thou art displaying! What a capacity for leg-bail thou art developing! Run, Prince! — Bravo, Epiphanes! — Well done, Cameleopard! — Glorious Antiochus! — He runs!—he leaps!—he flies! Like an arrow from a catapult he approaches the hippodrome! He leaps!—he shrieks!—he is there! This is

well; for hadst thou, "Glory of the East," been half a second longer in reaching the gates of the amphitheatre, there is not a bear's cub in Epidaphne that would not have had a nibble at thy carcass. Let us be off—let us take our departure!—for we shall find our delicate modern ears unable to endure the vast uproar which is about to commence in celebration of the king's escape! Listen! it has already commenced. See!—the whole town is topsy-turvy.

"Surely this is the most populous city of the East! What a wilderness of people! What a jumble of all ranks and ages! What a multiplicity of sects and nations! what a variety of costumes! what a Babel of languages! what a screaming of beasts! what a tinkling of instruments! what a parcel of philosophers!"

Come let us be off.

"Stay a moment! I see a vast hubbub in the hippodrome; what is the meaning of it, I beseech you?"

That?—oh, nothing! The noble and free citizens of Epidaphne being, as they declare, well satisfied of the faith, valor, wisdom, and divinity of their king, and having, moreover, been eye-witnesses of his late superhuman agility, do think it no more than their duty to invest his brows (in addition to the poetic crown) with the wreath of victory in the foot-race—a wreath which it is evident he *must* obtain at the celebration of the next Olympiad, and which, therefore, they now give him in advance.









Poe, E. A.

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