THOUGH APE'S BRAIN IS LIKE MAN'S IT CAN'T BUILD SHIPS NOR PRAY

Human Gray Matter, Made Up of Six to Twelve Billion Cells, Is Wonderful Labyrinth of Untrodden Byways, Whose Rarest Beauties Yet Have Not Been Explored by Science-Mind and Brain Distinctly Different.

***************** HEALTH AND EFFICIENCY-HOW TO MAINTAIN BOTH.

By Frederick M. Rossiter, B. S., M. D. Questions pertaining to health, hygiene and the prevention of disease will be answered in this column. When for lack of space and when estions are not suitable, answers stamped envelope with address is inclosed. No questions will be considered without the name and address of the sender. No diagnosis made in this column.

DR FREDERICK M. ROSSITER NATOMICALLY the human brain has many things in common with the brain of the higher class of animals, such as the ape, the chimpanzee, or the orang-outang, but mentally there is no relation or similarity. In mentality man is as far removed from all animals as the North Star is removed from the earth. Aside from purely animal functions, there is nothing in common

Animals can be trained to do certain

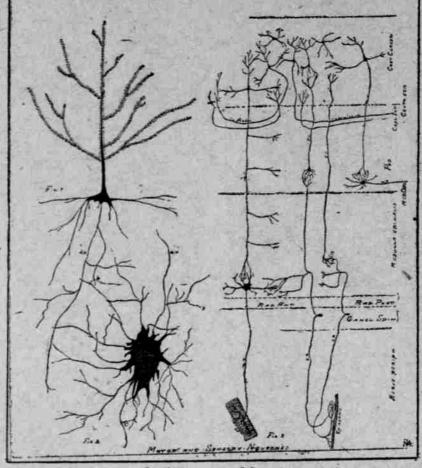
Animals can be trained to do certain things automatically and to perform certain clever tricks, but their entire life largely is controlled by instinct. It is mind and the use of the mind that makes a man a man. No ape ever learned a language, or built an Im-perator, or constructed a steam engine, or invented an airship, or discussed the tariff, or talked through a tele-mbone or prayed a prayer. Some anithe tariff, or talked through a tele-phone, or prayed a prayer. Some ani-mals may imitate, but man creates. The world is full of the wonderful and marvelous productions of the human mind. On every hand are the material creations that stand as monuments to the genius of man. Yet, nothing that man has created is as marvelous as his own brain. Here we have a temple within a

man has created is as marveous as his own brain. Here we have a temple within a temple, columns and pillars, chambers and galleries, decked with fringe and lace-like tapestries: wonderful pas-sages, and a most intricate labyrinth of pathways, mysterious and untrod-den, innumerable darkened chambers still unpenetrated, and, when they are penetrated, the 'rarest beautics, no doubt, will be uncovered. No man yet has explored all the hidden recesses of his own mind, and time will not last long enough so that he can, even though he should live longer than did Methuselah. There are anatomical reasons why a man cannot exhaust the resources of his brain. ons of his brain.

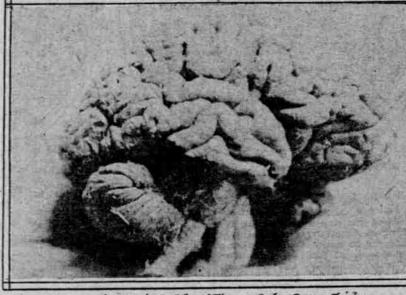
Brain and Mind Different.

The brain is not the mind, neither is the mind the brain, but, so far as a man is concerned, he has no mind indepandent of the brain. A brain, however, may be independent of the mind. There is a perfectly shaped brain on the table, but it has no mind. The mind is expressed in thought, While one thinks with his brain, thoughts are not an excretion from the thoughts are not an excretion from the brain, as bile is from the liver. The brain does not secrete thought as the stomach does gastric juice. The mind uses the brain to produce thoughts, much as Kubelik uses his vielin to produce music. The violin cannot play itself. It is an instrument and responds beautifully under the deli-cate touch of the musician. The brain is the instrument of the "thinker." Here in the brain is where you live and where I live. Here is the sanc-tum sanctorum, where the ego dwells, and here the ego uses the brain for

tum sanctorum, where the ego dwells, and here the ego uses the brain for the purpose of creating and producing thoughts. We are not independent of our brains and cannot live a consci-ous life independent of the brain, yet if a is within the power of a human being to direct the action of his brain and to develop it by his thoughts. Though the real source of thoughts is one of the unsolved mysteries of the human mind, one fact fully is settled and that is



Motor and Sensory Neurones



The Brain is Slightly Tipped to One Side. Showing a part of the Base.



<text><text><text> explain. This same principle is true of hearing; that it, a song heard with the right car is made known to you on the left side of the brain.

way this man could speak again would be to learn anew, if possible, and de-velop the speech center on the right side of his brain. He would have to be done. It would seem that, so far as speaking and all the memories con-nected with the speech center are con-cerned, this part of one's education all would have to be learned over once more. This injury did not interfere with any other function of his brain demonstrating that there is a division of cell work in the brain and that cer-tain cells preside over certain func-tions, independent of the action of the rest of the brain. rest of the brain.

rest of the brain. In a subsequent article I will take up the functions of other parts of the brain. In this study one is impressed that the possibilities that lie within the 6,000,000,000 brain cells, or more, are infinite. We may dissect sections, trace there is brain centers, examine are infinite. We may dissect sections, trace fibers, locate centers, examine cells and their projections, but we can-not locate thought. We can analyze wave sound, show how it passes into the car, how it communicates energy to the car drum and sets the little car locate the time how it produces a comto the ear drum and sets the fittle cal-bones vibrating, how it produces a com-motion in the labyrinth of the internal ear and from there passes over the nerve of hearing to the sensory cells in the brain; but how a physical prop-erty can be converted into couscious-ness is just as inexplicable and mys-ness today as it was a thousand erious today as it was a thousand

A Poem Worth Knowing

ears ago.



ares because the fields of vision overling and so, no doubt, the two brains help one another.
A notable exception to the symmetrical action of the two halves of the brain handled in the motor center for the control of speech. Some day we may know more about this, but investigations to date indicate that the collection of cells that control the power is brain in right-handed peeple and on the right side of the brain in left side of the brain in right-handed peeple and on the right side of the brain in left side of the brain in left side of the brain in sight the end of an umbrella was thrust into a cilnic in New York City. In the fight the end of an umbrella was through the socket, penetrated the soft itssues of the base of the brain, in juring the speech center. No infection rosulted, and the wound slowly healed up, but the man had lest the power of speech. One day while the man was in the cilnic a student came in carfying an umbrella. Dr. Thompson says when the patient saw tho umbrella he point et and began to weep. The only way this man could speak again would be to learn anew, if possible, and develop the speech center on the right way this man could speak again would be to learn anew, if possible, and develop the speech center on the right way this man could speak again would be to learn anew, if possible, and develop the speech center on the right way this man could speak again would be to learn anew, if possible, and develop the speech center on the right way this man could speak again would alway the patient is and began to weep. The only way this man could speak again would be to learn anew, if possible, and develop the speech center on the right way this man could speak again would alway the patient is the would have to be the speech center on the right way this man could speak again would be to learn anew, if possible, and develop the speech center on the right way this man could speak again would alway the possible would have to be the the speak to the the the tole from defeat to wh

Miss Jennie Barton, the latter a daugh-ter of Senator Barton. The time is when certain United States Senators resign their seats in the Senate, and pages,

As President Davis, of the Confedrat, the figure of the hero grows colossal. A sinister figure in the novel is a young man figure in the novel is a young man to passes as Signor Henrico Social secures introductions to men to worm out the political and military to worm out the political and military to worm out the political and military to book is the first examination of the makes Jennie Barton believe that he book is the first examination of the book is rederais gover the ascele in the English land makes Jennie Barton believe that he book is the first examination of the book is the first examination of the book is the first examination of the book is the councel of "drink"—question, on so ektensive a scale in the English land the bolies and New Testament that the use of "drink"—that is liquor—is not forbidden and shows that the councels of "drink"—that is liquor—is not forbidden stars of texts and other facts to support his contention. This contention. The songle Brigadier-Generat argumph fairly presents for he shere stard from annihils to work of is five power of joy, there is no more unit the singles Rederal symbol than that given by Jesus, the when eup and the banquet; because, the meal is a daily reality and the the simplet, oftenest repeated, and moved the fact to support. A diverties are the support the set of the confederate and word at the confederate at the conf

Illustrations, 24 black and white maps in the text and two maps in full color, is different. It is brought down to date to the Woodrow Wilson adminis-tration, and the author has made wide use of the latest results of thought and research in his attractive presenta-tion of historical facts. This modern book deserves wide recognition. 428

Business Arithmetic, by C. M. Beekman, Hinstrated, 65 cents, American Book Co., New York City.

_Epicterus.

SHARKER . の日本 Chomas Dixon 66 THE VICTIM? With Jefferson Davis as the Hero.

1605

"Difficulties are things that

YED MARY

show what men are."

one fact fully is settled and that is that we think with our brains, at any rate we are supposed to do so. Strange as it may seem to us this always has not been an accepted truth.

No less important a person than the reat ancient physiologist and philoso pher Aristotle, after carefully examining the brain, gave it as his opinio that the one and great business of th brain was to cool the blood for the heart. While the brain is not mentioned in the Bible, yet a perusal of the Book of Job, the Psalms and the writings of Solomon convinces the reader that these ancients knew that the great organ in the head was there for a more impo-tant purpose than to cool the blood.

Brain Knowledge Is Recent.

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Lateral View of While Portion of the Brain With Gray Matter Removed. The Course of the Fibres can be Distinctly Seen.

centers cannot get into communication with his center of consciousness. The brain nerve cell is the unit of

tant purpose than to cool the blood. Brais Knowledge 1s Recent. It is evident from the writings of men that for ages the world knew nothing about the brain or what its functions were. Most of the other or-gans of the body long have been known and men have been able to see these organs in action and, in a physical way, have been able to demonstrate what they did but not so with the brain. For thousands of years the brain has held its secrets from men and has worked unobserved, surrounded by a mysteri-ous slience. The secrets of the "thinker" would never inck for ma-terial to work on. These colls are curi-tors and differ in shape and size. Some have many projections and look like a spider; some resemble an old-fashioned what is going on within the brain. About 150 years after Christ, Galen for even are hidden in this matter. Most of the knowledge about the brain work for most by 300 years after Galen little if any advance was made in this matter. Most of the knowledge about the brain the frain the mind has come to light within the lives of the present generalion. So far we to tructure is compendent to brain way then here are in absolute con-there cells are so minute and numerous yet no two of them are in absolute con-there cells are so minute and numerous yet no two of them are in absolute con-there cells are so minute and numerous yet no two of them are in absolute con-there cells are so minute and numerous yet no two of them are in absolute con-there cells are so minute and numerous yet no two of them are in absolute con-there cells are so minute and numerous yet no two of them are in absolute con-there there film of fluid which separates

Transverse Section of Center of Cerebellum,

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The poem which follows appears in abridged form in many collections, ac-credited to Lord Lytton. A correspon-dent states that it was written by J. L. McCreery, author of a volume entitled McCreery, author of a volume entitled "Songs of Toll and Triumph," published in New York in 1883.

There is No Death.

There is no death: the stars go down To rise upon some other shore, And bright in heaven's jeweled crown They shine forevermore.

There is no death! the forest leaves Convert to life the viewless air; The rocks disorganize to feed The hungry most they bear.

There is no death! the dust we tread Shall change, beneath the Summer a

To golden grain, or mellow fruit, Or rainbow-tinted flowers.

There is no death! the leaves may fall, The flowers may fade and pass away-They only wait, through wintry hours, The warm, sweet breath of May.

There is no death! the choicest gifts That heaven hath kindly lent to car Are ever first to seek again The country of their birth. earth

And all things that for growth or joy Ars worthy of our love or cars, Whose loss has left us desolate, Ars safely garnered thers.

Though life become a desert waste, We know its fairest, sweetest flowers, Transplanted into paradise, Adora immortal bewers.

The voice of birdlike melody That we have missed and mourned long, Now mingles with the angel choir In everiasting song.

There is no death! Although we grieve When beautiful, familiar forms That we have learned to fove are tora From our embracing arms-

(Jackson) who had moved his five regiments on his own initiative in the nick of time, and saved the Confed-erates from utter rout. Victory had been snatched at last from the jaws of defeat by an accident. The misfortune of a delayed regiment of Johnston's army was suddenly turned into an astounding piece of luck. The sudden charge of thoss 2009 men on the flank of the victorious army had produced a panic among tired, raw recruits. McDowell was at this moment master of the field. In a moment of insane madness his unseasoned men had thrown down their guns and fied." Here is a brilliant description of the Battle of Manassas: The artiliery opened the action and for

The area so in the unexponent men had the results in the formation of the privileges of the privileges of the definition of the privileges of the privileges of the definition of the the definition of the the definition of the definit of the definit definit definition of th

theid lighted by the red giars of the sinking sun. The relief corps could be seen dashing on, with strotchers and ambulances following in the wake of the victorious army. The hum and roar of the want field of carnage came how on the cars of the lis-temer-the groans of the wounded and the despairing ary of the dying. And still the living waves of gray-tipped steel rolled on in the other battles of the Civil War receive condensed but adequate treat-he South would

A diverting novel of England and New York, where the principal motif is a search for an heir who suddenly inherits a fortune. Portland, Or., is mentioned on pages 21 and 25, but the reference is fragmentary.

JOSEPH M. QUENTIN.

WOMAN SWIMS HUDSON Mrs. Flora Madsen Risks Life on

Dare to Win New Hat.

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