



THE GALILEAN MOONS

aka "the Medicean Planets"

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GALILEO'S "NEW ORDER"

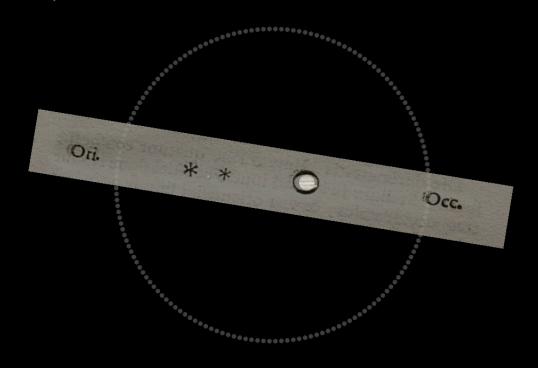
Created by Alyssa Goodman, Curtis Wong and Pat Udomprasert, with advice from Owen Gingerich and David Malin





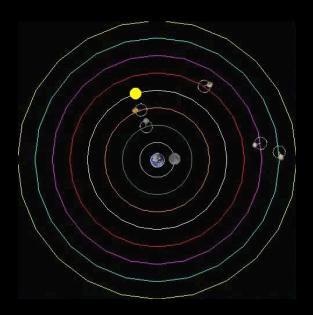


January 11, 1610



Ptolemaic

Geocentric, with Epicycles

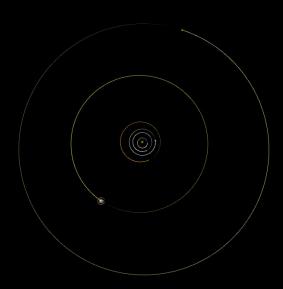




150 A.D.

Copernican

Heliocentric (correct)

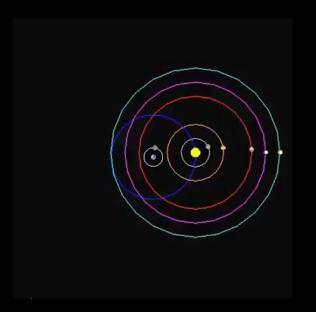




1543

Tychonic

Geoheliocentric hybrid





1587



On the third, at the seventh hour, the stars were arranged in this sequence. The eastern one was 1 minute, 30 seconds from Jupiter; the closest western one 2 minutes; and the other western one was







10 minutes removed from this one. They were absolutely on the ame straight line and of equal magnitude.

On the fourth, at the second hour, there were four stars around lupiter, two to the east and two to the west, and arranged precisely







on a straight line, as in the adjoining figure. The easternmost was distant 3 minutes from the next one, while this one was 40 seconds from Jupiter; Jupiter was 4 minutes from the nearest western one, and this one 6 minutes from the westernmost one. Their magnitudes were nearly equal; the one closest to Jupiter appeared a little smaller than the rest. But at the seventh hour the eastern stars were only 30 seconds apart. Jupiter was 2 minutes from the nearer eastern







one, while he was 4 minutes from the next western one, and this one was 3 minutes from the westernmost one. They were all equal and extended on the same straight line along the ecliptic.

On the fifth, the sky was cloudy. On the sixth, only two stars appeared flanking Jupiter, as is seen











GALILEO GALILEO PATRITIO FLORENTINO PERSPICILLI

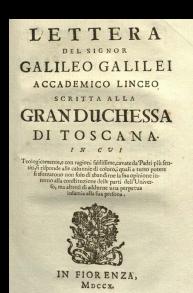
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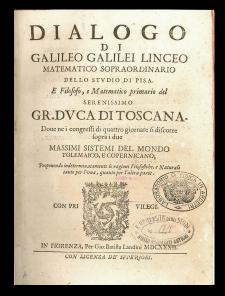
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1610 1615 1632 1638 "Galileo...

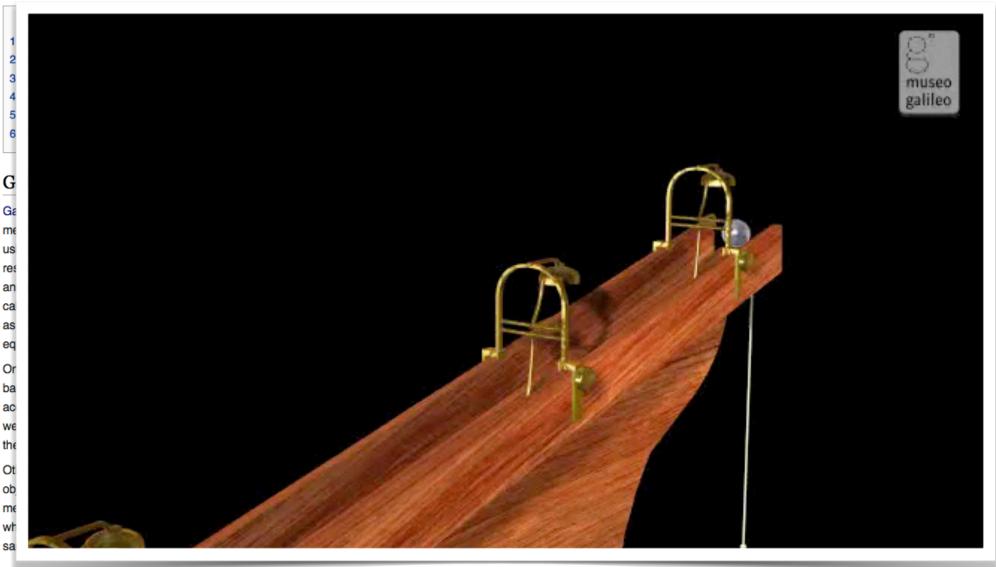
is the father of modern physics—indeed of modern science."

- Stephen Hawking quoting Albert Einstein

History of experiments

From Wikipedia, the free encyclopedia

The history of experimental research is long and varied. Indeed, the definition of an experiment itself has changed in responses to changing norms and practices within particular fields of study. This article documents the history and development of experimental research from its origins in Galileo's study of gravity into the diversely applied method in use today.



Distance d traveled by an object falling for time t where g is gravitational acceleration ($\sim 9.8 \text{ m/s}^2$):

$$d = \frac{1}{2}gt^2$$

These results supported Galileo's hypothesis that objects of different weights, when measured at the same point in their fall, are falling at the same speed because they experience the same gravitational acceleration.



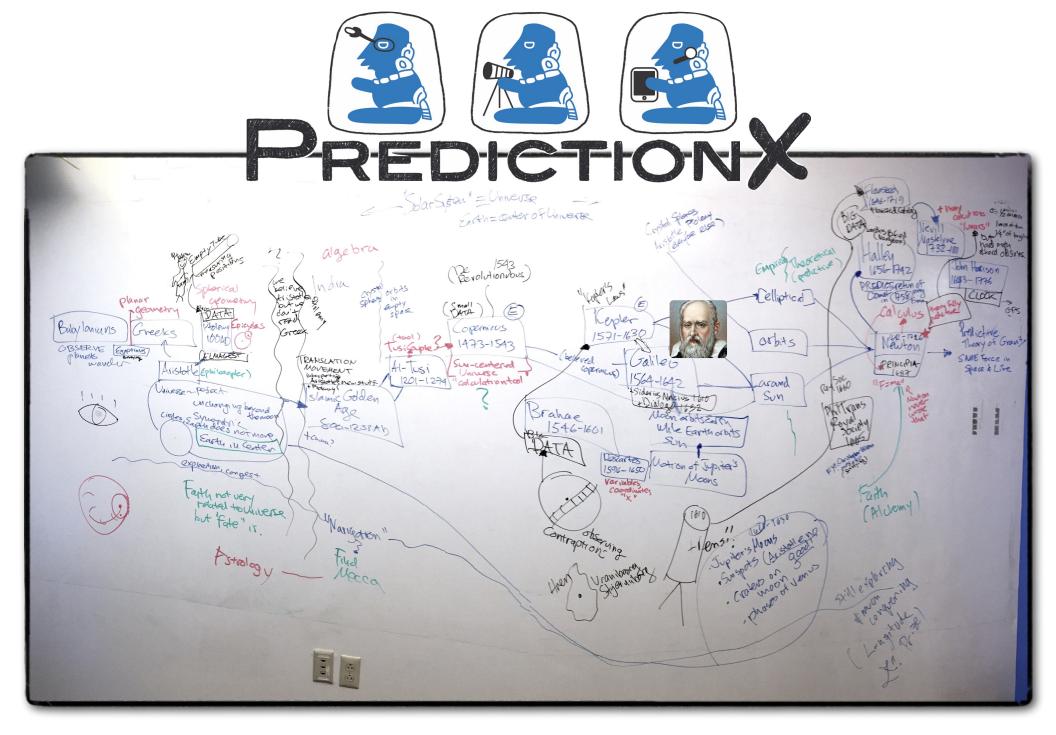










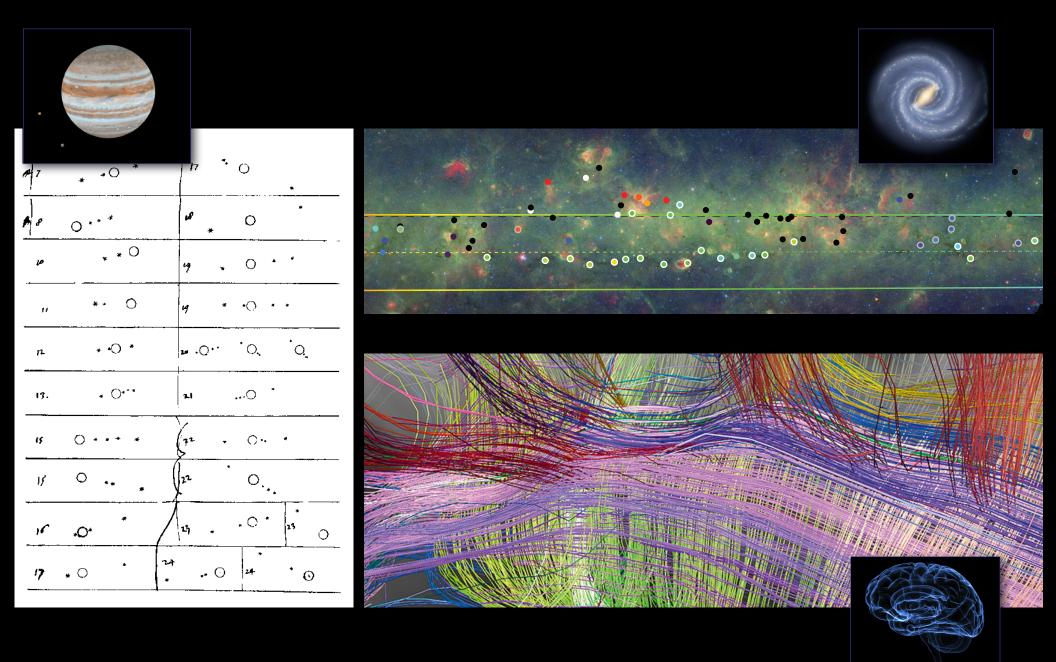




Galileo saw beauty in a world of patterns.



So do I.





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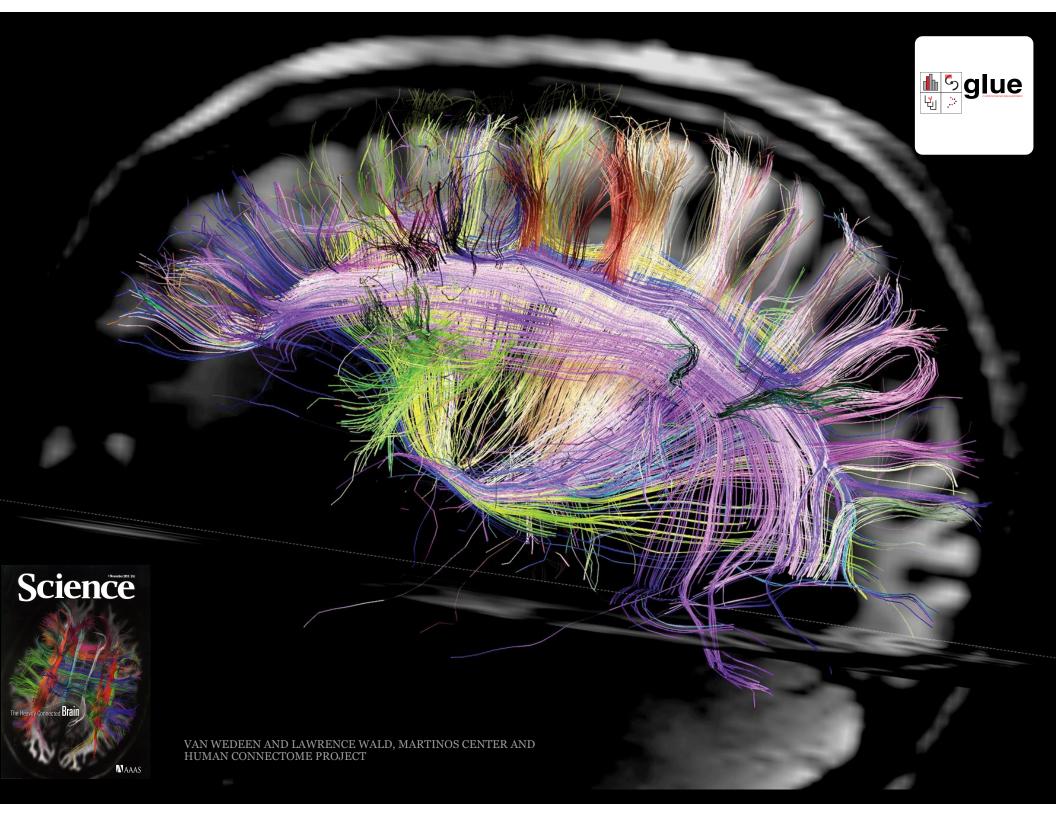
origins

EVOLUTION

RESULTS

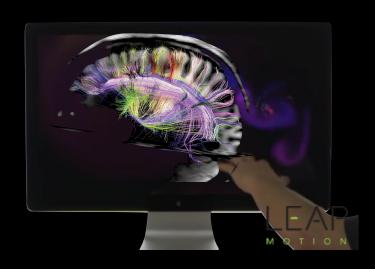
WHAT'S NEXT?

People



REPURPOSING TOOLS









1610

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to minutes removed from this one. They were absolutely on the same straight line and of equal magnitude.

On the fourth, at the second hour, there were four stars around

On the fourth, at the second hour, there were four stars around Jupiter, two to the east and two to the west, and arranged precisely

on a straight line, as in the adjoining figure. The easternmost was distant 3 minutes from the next one, while this one was 40 seconds from Jupiter, Jupiter was 4 minutes from the nearest western one, and this one 6 minutes from the westernmost one. Their magnitudes

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western one 3 minutes from Jupiter. They were on th

On the seventh, two stars stood near Jupiter, bo

LITERATURE

1665



1895

ASTROPHYSICAL JOURNAL

AN INTERNATIONAL REVIEW OF SPECTROSCOPY AND ASTRONOMICAL PHYSICS

WOLLINE I

JANUARY 1895

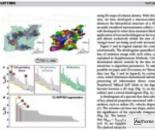
NUMBE

ON THE CONDITIONS WHICH AFFECT THE SPECTRO-PHOTOGRAPHY OF THE SUN.

By ALBERT A. MICHELION.

The recent developments in solar spectro-photography in great measure due to the device originally suggested by Jase and perfected by Hale and Deslanders, by means of what a photograph of the Sun's prominences may be obtained at a time as readily as it is during an eclipse. The essential feature of this device are the simultaneous movements of the common state of the common state of the common state of the photographic basis over a photographic plat the free state of the photographic plat is the focus of the photographic basis are so adjusted that the same spect line always falls on the second slit, then a photographic ima of the Sun will be reproduced by light of this particular was length.

Evidently the process is not limited to the photography the prominences, but extends to all other peculiarities of struure which emit radiations of approximately constant walength; and the efficiency of the method depends very largupon the contrar which can be obtained by the greater enfect 2009



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The "Paper" of the Future

Alyssa Goodman, Josh Peek, Alberto Accomazzi, Chris Beaumont, Christine L. Borgman How-Huan Hope Chen, Merce Crosse, Christopher Erdmann, August Muench, Alberto Pe Curtis Wong • Add subor 125 Peansage subors

Proomble

A vessely of research on human cognition demonstrates that humans learn and communicate has humans learn and communicate has humans learn and communicate has when more than one processing system (e.g., visual, auditory, bouch) is used. And, relate research also shares that, or matter how scholical the material, most humans also reason any process information best when they can put a narrative 'story' to 8. So, when considering in Sture of activity communication, and shared be called not do brillingly anywith the finet building the standard beautiful and to do brillingly anywith the finet

Much more than lest is used to commission in Science. Figures, which reclaim images, dispurses, greate, charts, and more, here windred activally referred service size to the red of dispurses, greate, charts, and more here worked services yet them scientists communicate face-to-face, as in table or mand Sciencesises, there (spears are often the focus of concess underlying bill, in residence, one of the sciency for manipulate the figures, and to secretal underlying bill, in residence, one of the other value with all covariation, and the sciences underlying bill, in residence, one of the other values with all covariation, and the school of the science of the science of the science of the science of the school of the science of the science of the science of the science of the school of the science of the science of the science of the science of science of the science of the science of the science of the science of science of the science of the science of the science of science of the science of the science of science s

Paper of the Future

2015

Konnal Hinsen J. Styr Japh P. Public Many good suggestions, but if the goal is "long-lesting rich monosts of sissefficial discussers", a more careful and critical attitude towards electrical extends is appropriate. (Io see a concerning violent, but and a word of the much more critical estation is software. And whiching source code is not with a software and the software source code is not environment, usual have be to economical as well to make things work a five years from one. And "executable figure" is the form of an Pitton notebook wit.

FEATURED ARTICLES ABOUT PLANS BLOG FEEDBACK HELP ALYSSA GOODMAN •

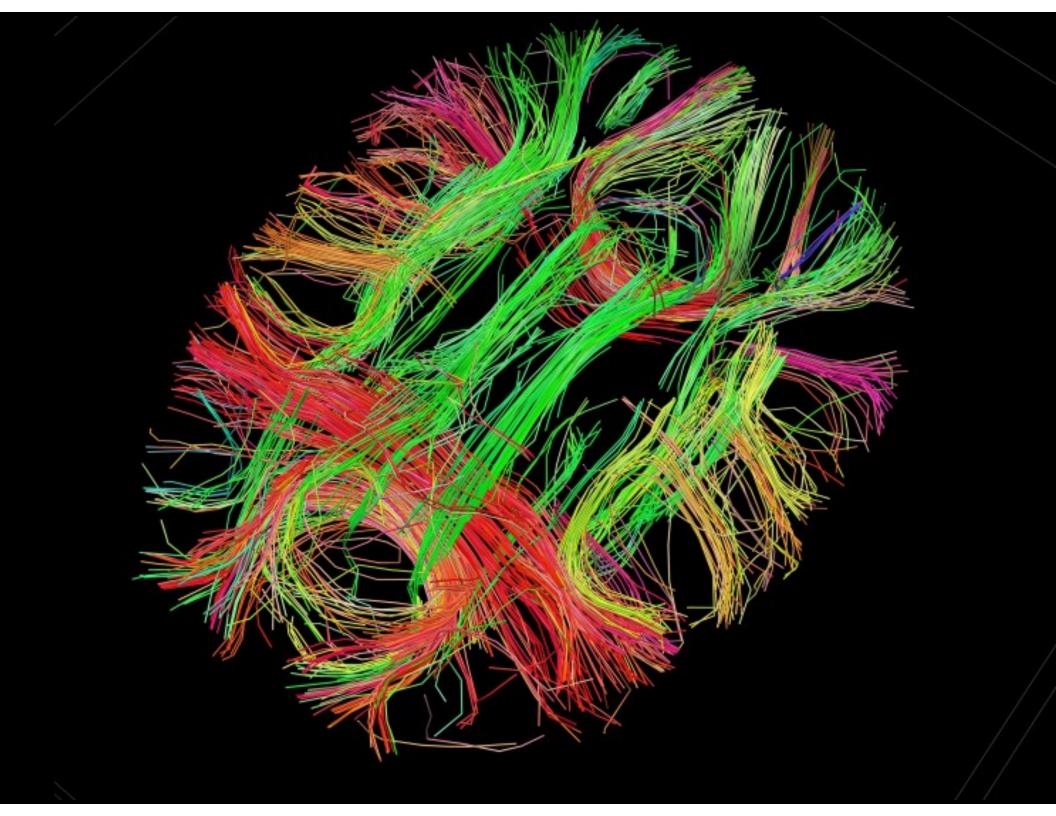
Merce Oreass 3 (lays 1929 - PAE) Korral, pool points, the has been a concern for the community working on reproducibility. Regarding data populations, Dukerna shardes to regime preservation as access of data files in the following way: 15 for some data files that the recording recognises (but on R DALS, 67965 STAR), which despired on a strikerioral poology, the system shall be of the strikers of the strikers of the strikers shall be of the strikers of the strikers of the strikers shall be of the strikers shall

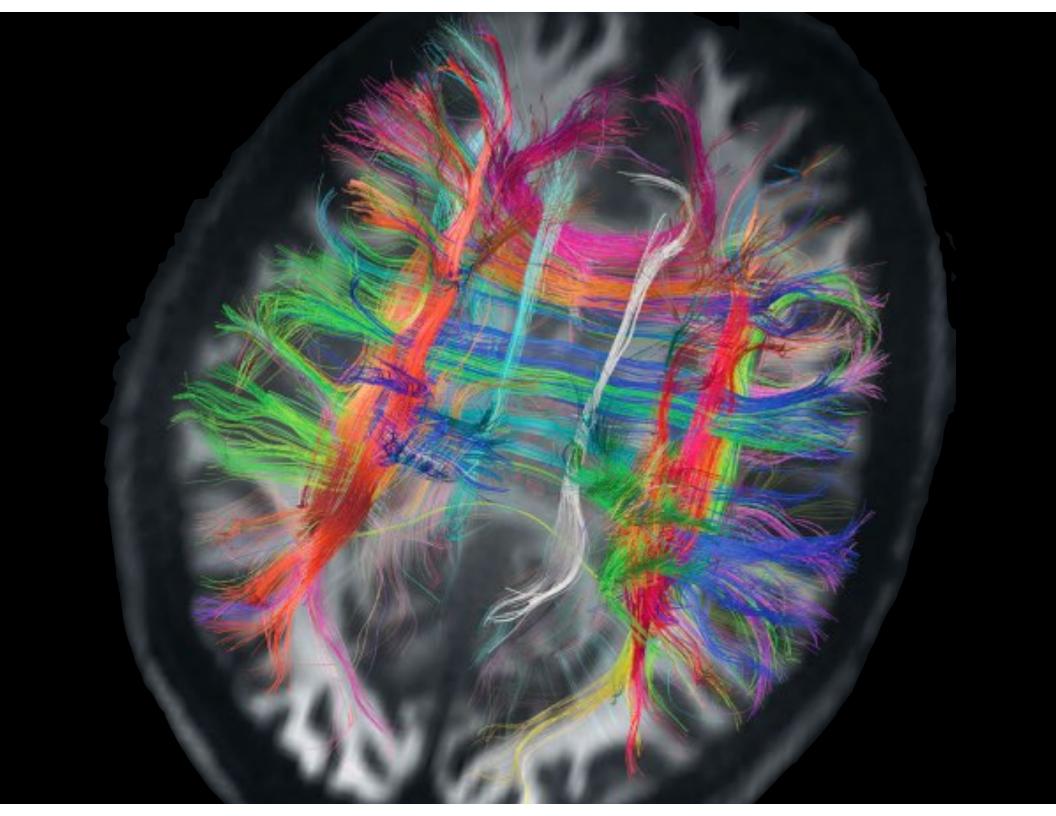
Kenrad Hinsen I day ago - Public That sounds good. I hope more repositories will follow the example of Dataverse. Figshare in particular has a very

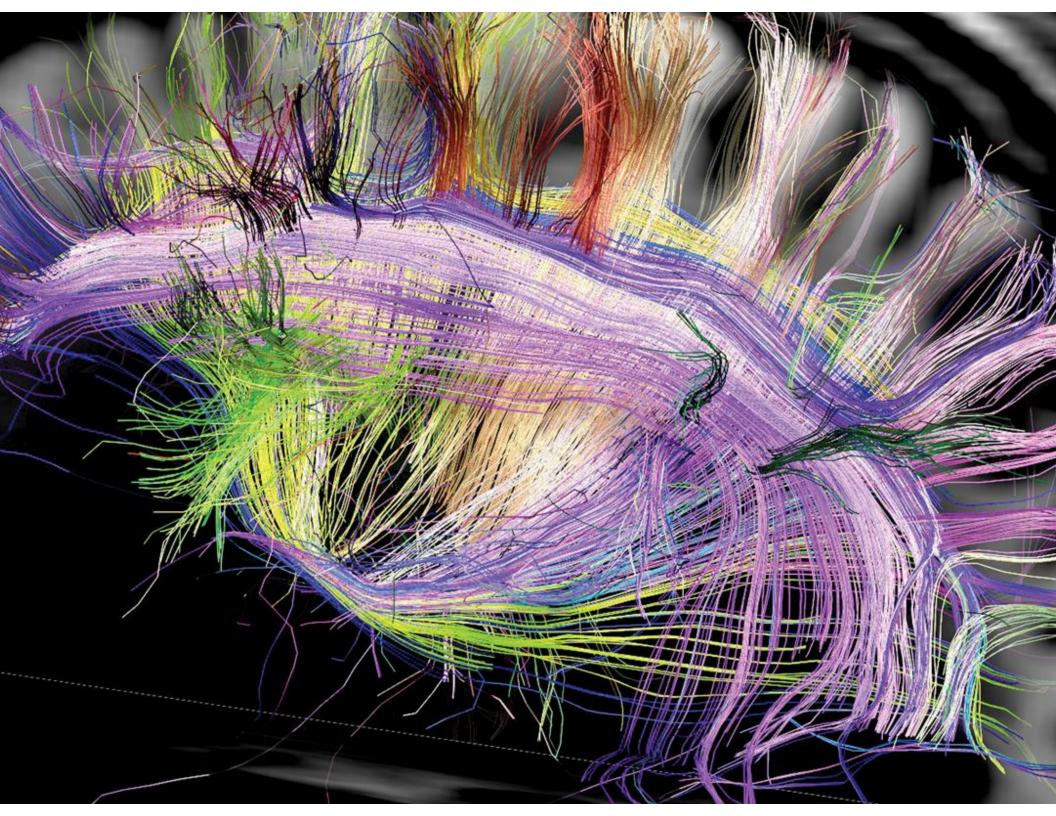


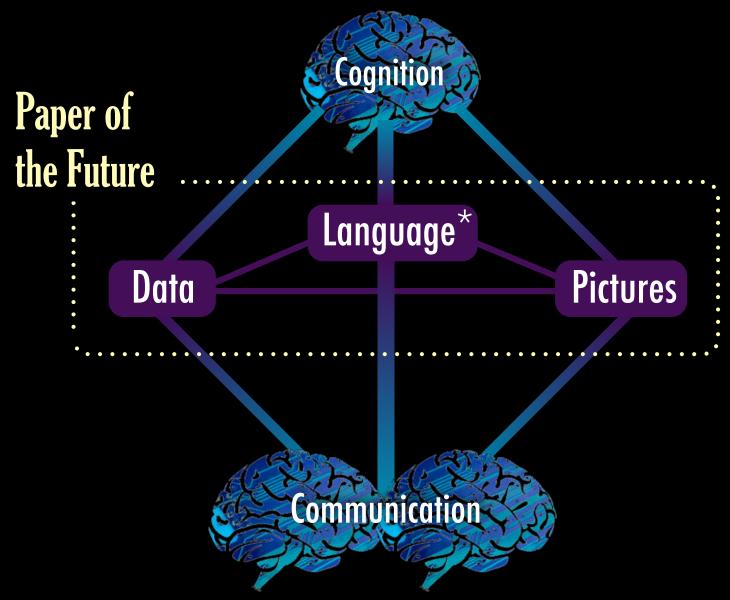


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 * "Language" includes words & math

- 4 Scientific methods
- 5 Astronomy
 - 5.1 Kepler's supernova
 - 5.2 Jupiter
 - 5.3 Venus, Saturn, and Neptune
 - 5.4 Sunspots
 - 5.5 Moon
 - 5.6 Milky Way and stars
- 6 Engineering
- 7 Physics
 - 7.1 Falling bodies
- 8 Mathematics

