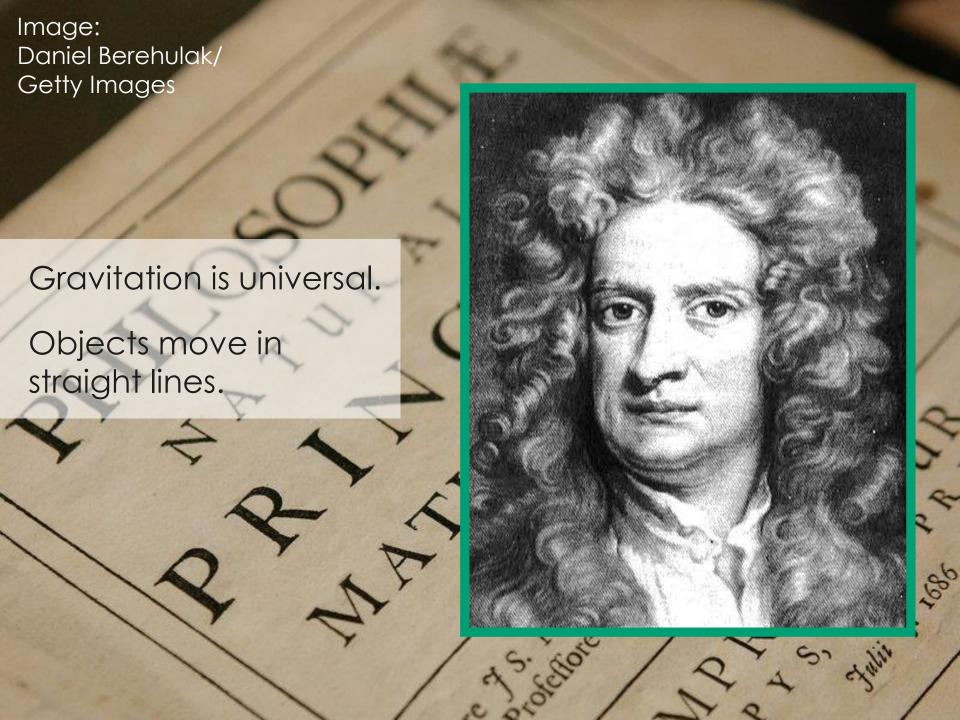
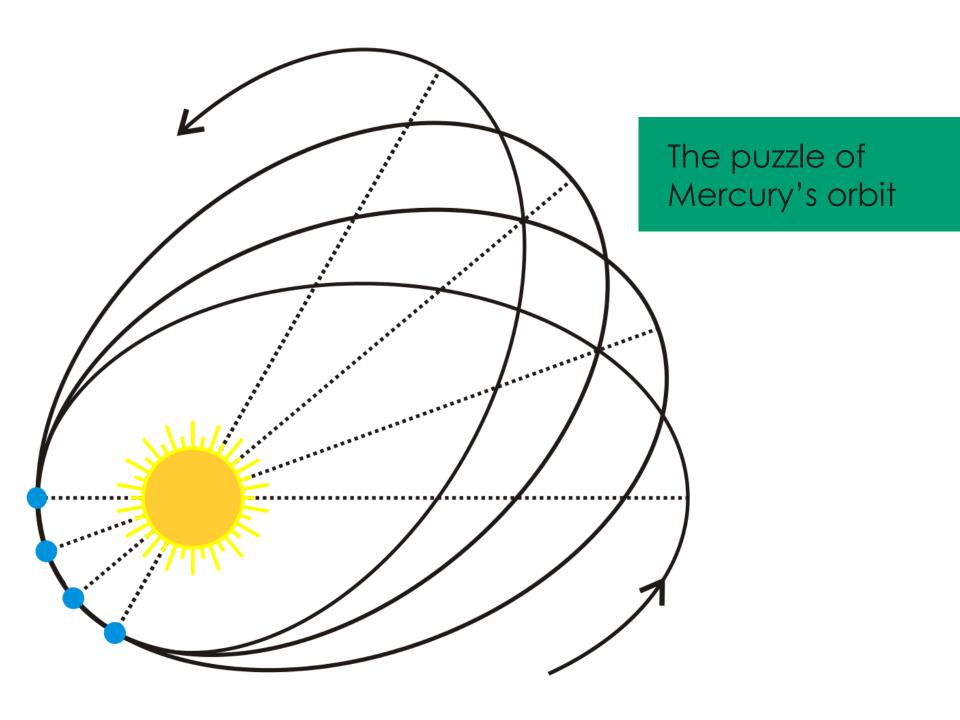
Einstein's greatest idea

Christopher Berry • @cplberry

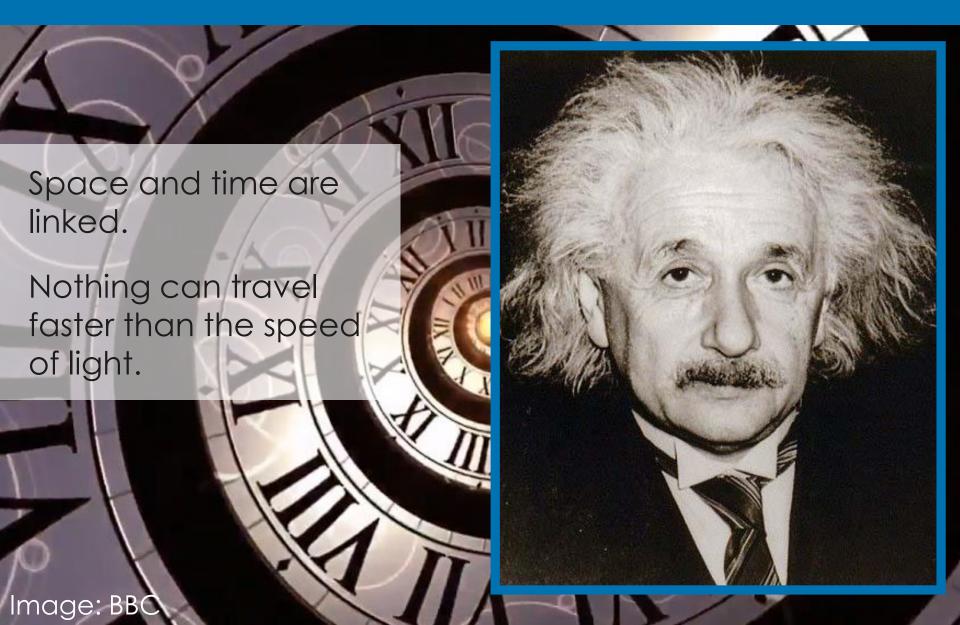


Image: Double Negative

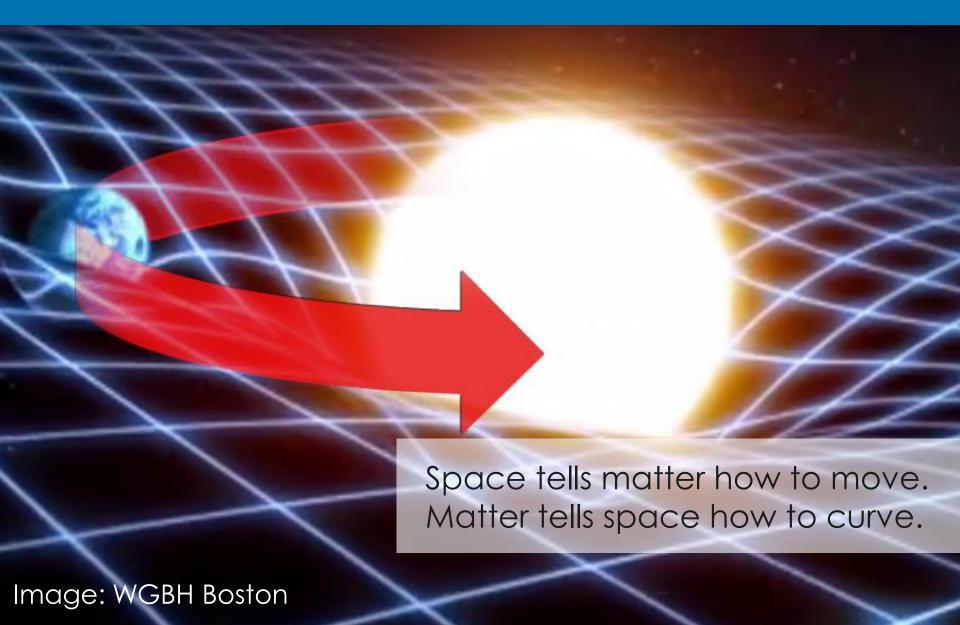




Relativity



Space-time

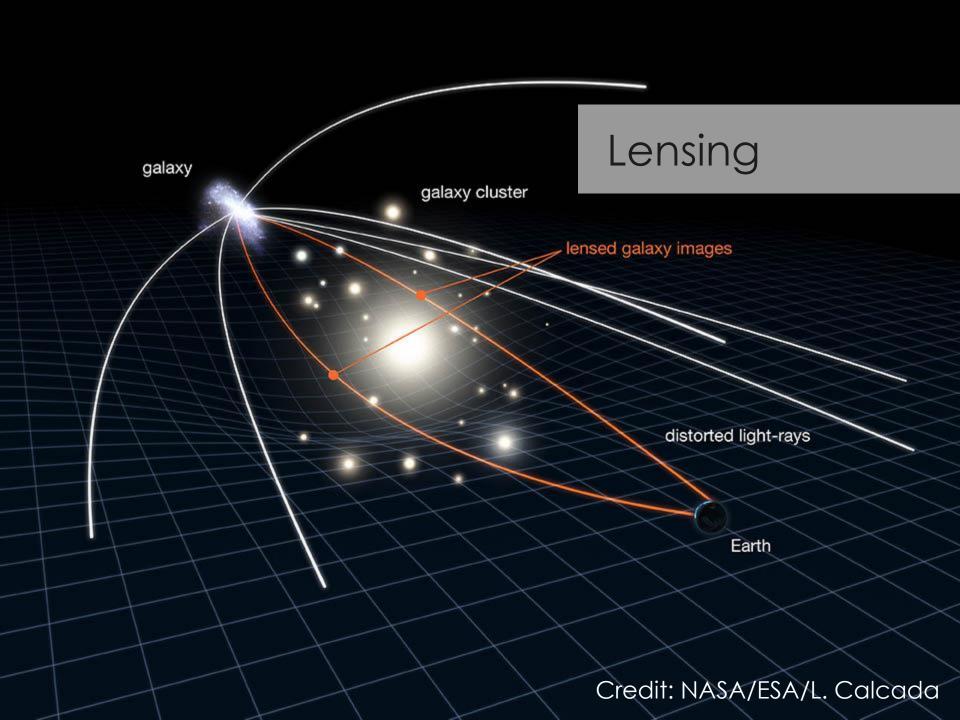


General relativity

$$G_{\mu
u} = rac{8\pi G}{c^4} T_{\mu
u}$$

What does general relativity tell us?

Image: NASA, ESO



LIGHTS ALL ASKEW IN THE HEAVENS

Men of Science More or Less Agog Over Results of Eclipse Observations.

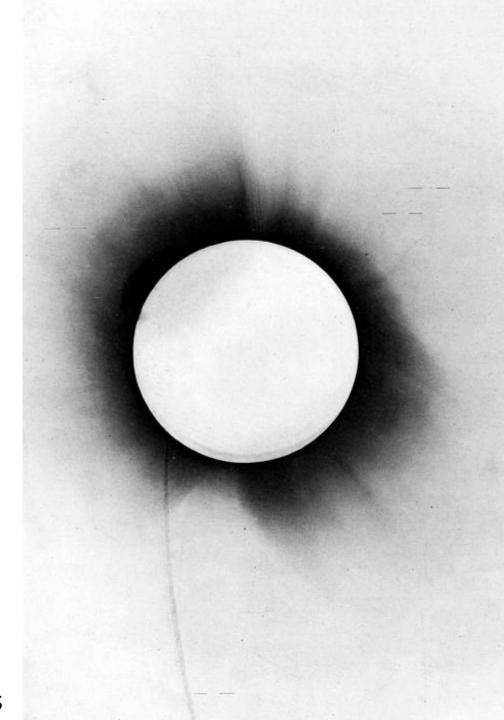
EINSTEIN THEORY TRIUMPHS

Stars Not Where They Seemed or Were Calculated to be, but Nobody Need Worry.

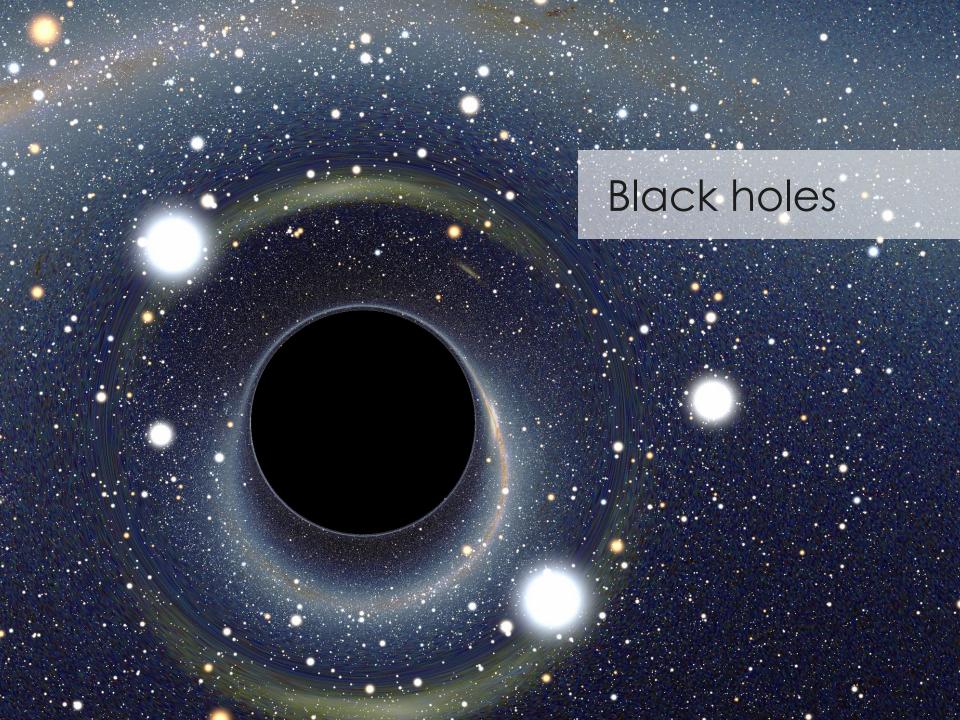
A BOOK FOR 12 WISE MEN

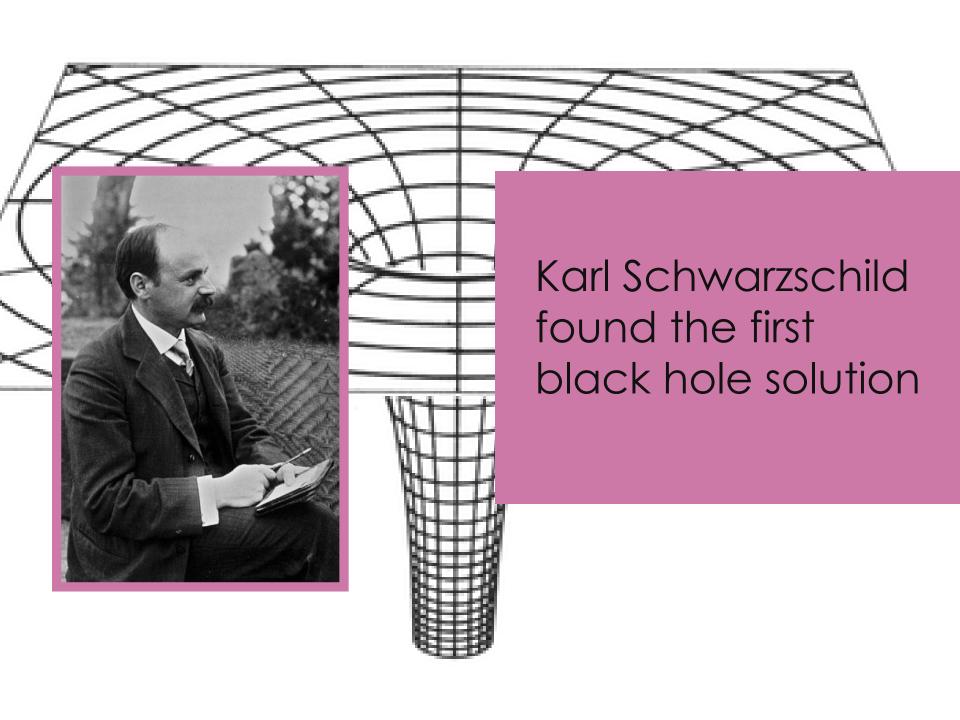
No More in All the World Could Comprehend It, Said Einstein When His Daring Publishers Accepted It.

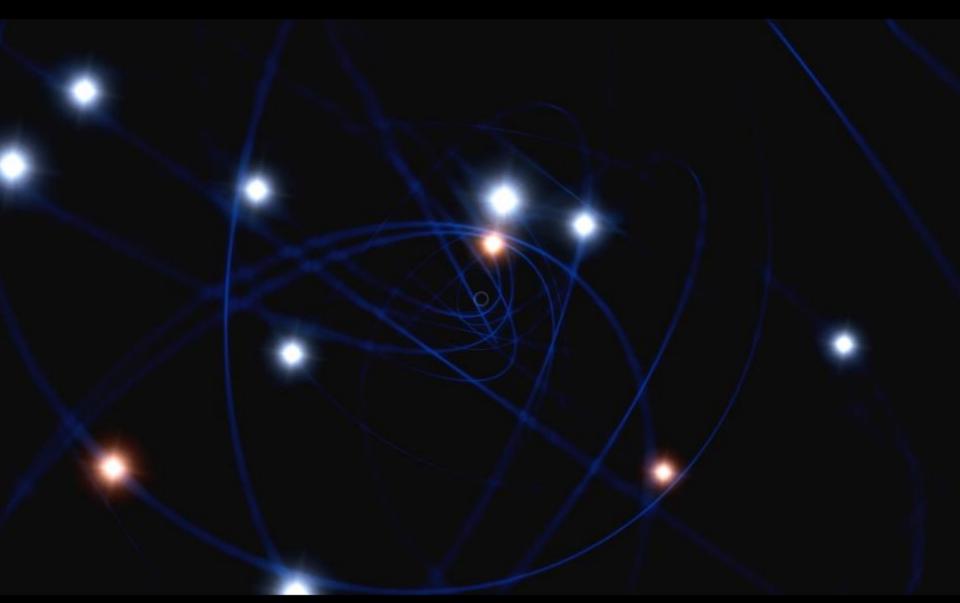
Credit: New York Times







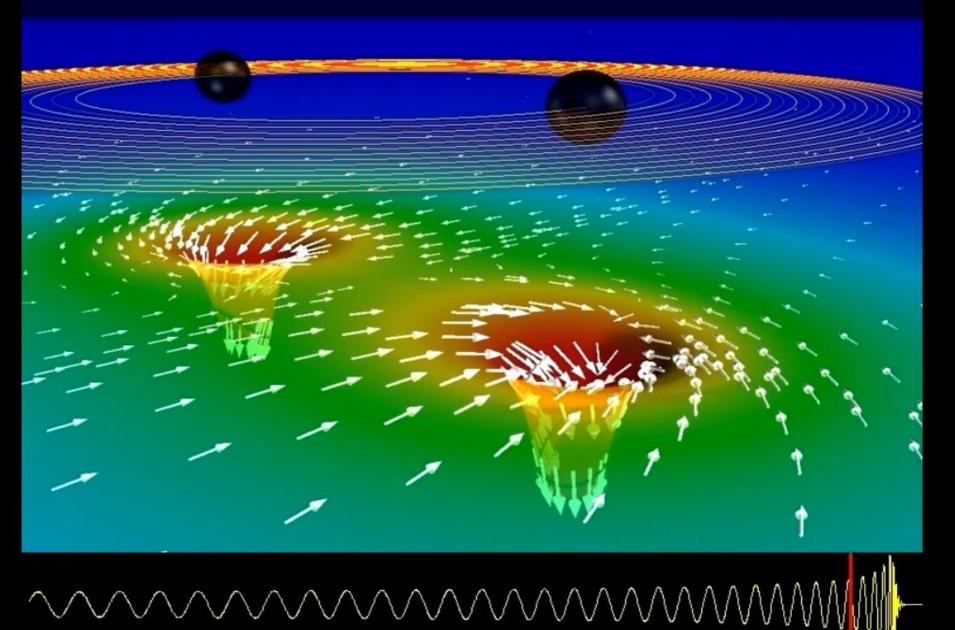




Accelerating masses create gravitational waves, ripples in space-time

Credit: Swinburne Astronomy Productions

Video: Caltech-Cornell



Gravity is a universal force, the dominant force in astrophysics

It is described by the curvature of spacetime in general relativity

Gravitational lensing lets us weigh objects and learn about gravity

Black holes are the regions of strongest gravity

