Yuxuan-Jiang-Weekly-Viz-Report6

For this week's data visualization report, I found this visualization related to black holes and gravitational waves. The main characters of this visualization are two black hole called LIGO and Virgo. The creator used the data from Cornell University (https://arxiv.org/abs/2010.14527) to create a visible graph of an invisible movement. This beautiful spiral animation is jam-packed with information on black hole mergers and other cosmic collisions.

Work Cited

Bremer, N. (n.d.). *Gravitational waves*. Visual Cinnamon. Retrieved October 14, 2022, from https://www.visualcinnamon.com/portfolio/gravitational-waves/

HOW TO READ THIS CHART

Listen to select collisions by clicking the ♫

Circles are scaled to the mass of the object they represent. The outer circle, representing the mass of the merger result, is scaled up to allow comparison across events.

Hover or click on any merger to see more information. Events marked in blue have extra detail.

Time since the gravitational waves were emitted

- Today

- 100 million years ago

First neutron star collision detected >>>

- First vertebrates on Earth appear

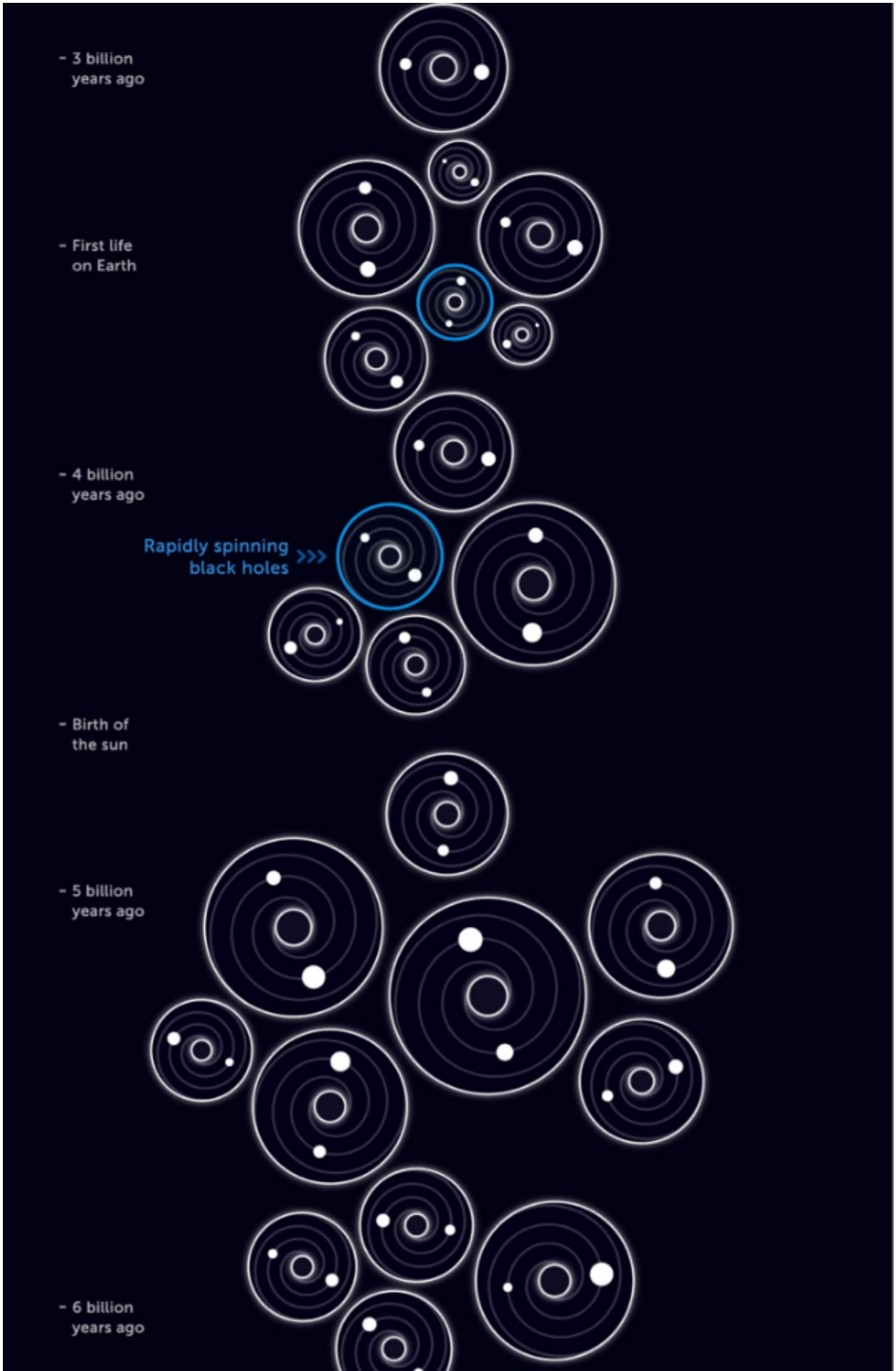
<<< Mystery object merger

- 1 billion years ago

First merger detected >>>

<<< Very different original masses

- 2 billion years ago


- 3 billion
years ago
- First life
on Earth
- 4 billion
years ago
Rapidly spinning
black holes >>>
- Birth of
the sun
- 5 billion
years ago
- 6 billion
years ago