this visualization displays the relative size of solar system satellites (top), and the relative ratio of satellites-hosts (bottom)

planets:

- first, the planets: each planet is shown as a black empty circle, at its proper distance from the Sun (*x*-axis).
- the size of the planet circle is proportional to the mean radius of the planet
- the darkness of the circle is proportional to how many satellites the planet has

satellites:

- each satellite is a circle. each family is a color: same color means same plane host
- the alpha or transparency value, is proportional to the satellite magnitude (V or R)
- the distance to the planet is proportional to the semimajor axis of the satellite's orbit
- the rotational speed is proportional to the actual orbital speed assuming a circular orbit

satellite size:

- in the TOP plot the size of the satellite circle is proportional to the **size of the satellite** (in log space). note that the size of the planets is not in the
 proper proportion and should not be compared to the size of the
 satellites!! the planet sizes are in proportion among the planets (in
 natural space), the satellites among satellites (in log space).
- in the BOTTOM plot the size of the satellite circle is proportional to the satellite/host size ratio (natural space)

take home point: the radius of the Moon is a whooping quarter of the radius of the Earth! in proportion, its huge! the Moon may not be a big object, but it is very large compared to its host, the Earth.