Exoplanets: The Search for Another Earth

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Background Information

- What is an Exoplanet? Why do we care?
- How do we find them?
- Our Instruments/techniques have improved significantly.



Project Goals

- Find cool and simple ways to animate and visualize Exoplanet data looking for planets similar to Earth.
- Find out if any of these planets are in our stellar neighborhood
- Put the information in units that would be familiar to non-scientists.

Data Acquisition and Cleanup

- NASA Confirmed Exoplanet Database
- https://exoplanetarchive.ipac.caltech.edu/cgibin/TblView/nph-tblView?app=ExoTbls&confi g=planets
- Started with: Planet Name, Orbital Period, Semi-Major Axis, Planet radius, Distance to Star, Effective Temperature (star), Stellar Mass, Spectral Type
- Calculated: Orbital Velocity, Minimum Travel Time.
- Changed units: Semi-Major Axis, Planet Radius, Distance to Star.
- Reduced large numbers proportionally.

