# Spatial Data Mindmap #2

**Coordinate Reference System**

- **Projection**
  - The Earth is 3D so when we project onto 2D we lose either angle, area, and/or distance.
  - Mercator Projection is common. Cylindrical Map Projection of Each.

- **datum**
  - Different areas of the world are better fit for different datums
  - Center of an ellipsoid

- **ellipsoid**
  - WGS84 GRS80
  - Mathematical model approx. of Earth's shape