Types of Maps

1. General Purpose
   1. These maps serve many purposes and contain multiple features such as roads, boundaries, capitals, rivers, lakes, etc.
   2. Such maps have many 'themes'
2. Thematic
   1. Ex: a map showing which political party has won which states in a national election
   2. Ex: Map showing major breweries
3. Charts
   1. These maps are used for navigation typically by boats or airplanes
4. Topographic
   1. Used to show terrain, altitude, and so forth Contours are a tool.
   2. Swedish army dictum: when the map and the terrain disagree, always believe the terrain.
   3. Contour lines
      1. Lines of constant altitude
      2. Typically drawn as concentric 'circles'
5. Road Maps
6. Cadastral
   1. Maps showing property boundaries, property ID's, etc.
   2. Meats and bounds
7. Mental
   1. Typically badly scaled semi-visual notions in our minds about where things are and how to get there.
   2. This is an example of a rapidly fading human ability.
   3. The Apaches did this well.
8. Virtual
   1. Essentially maps in a database for display by a computer
   2. Can, and should be interactive; if so they are dynamic maps
9. Raster or Image
   1. Maps created by aerial or satellite photos and stored more or less as digitized bits, faithful to the picture
   2. Since they are just pictures, they are often enhanced with boundaries and other 'man-made' demarcations.
   3. "Natural" colors can be modified for emphasis (ex: to display types of vegetation)

Map Features

* Scale
  + An inch on the map means we have to drive how far?
* Directions
  + Which way is up? North?
* Legend
  + How do I read this map?
* Symbology,
  + Ex: /\ means campground, mountain or whatever (can be explicated by the legend)
* Coloration
  + Most maps make good use of colors
  + Ex: to make boundaries easier to spot, show republican won states in red, show interstate highways in red, etc.
* Others
  + Maps often include charts (ex: bar charts or pie charts) and tables.