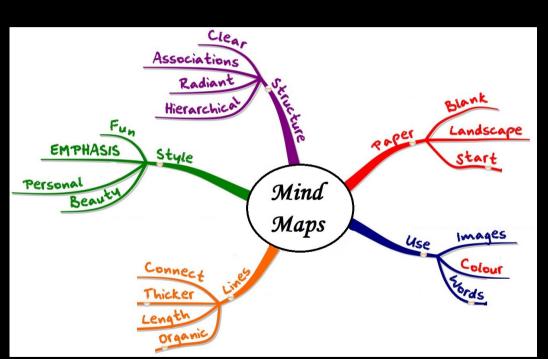
GEO 309 – Intro to GIS

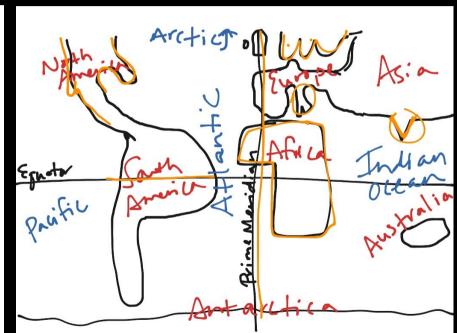
Joe Blankenship Department of Geography University of Kentucky

Topics

- Mental Maps
- Map Neutrality
- Map Literacy
- Resistance vs. Security
- Scale
- Map generalization
- Demo

Mental Maps

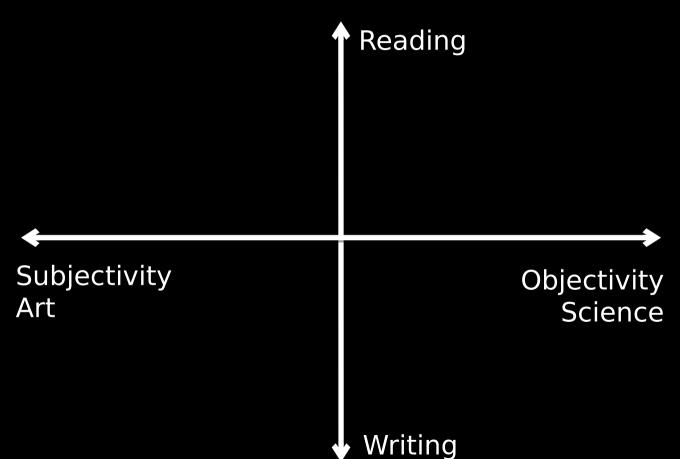




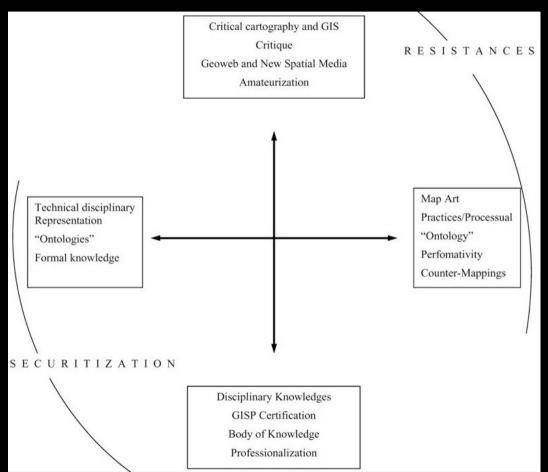
Map Neutrality

Maps can't be neutral

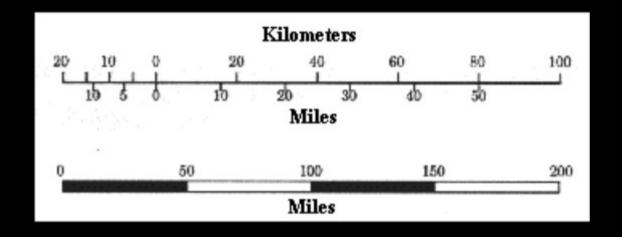
Map Literacy



Resistance vs. Security



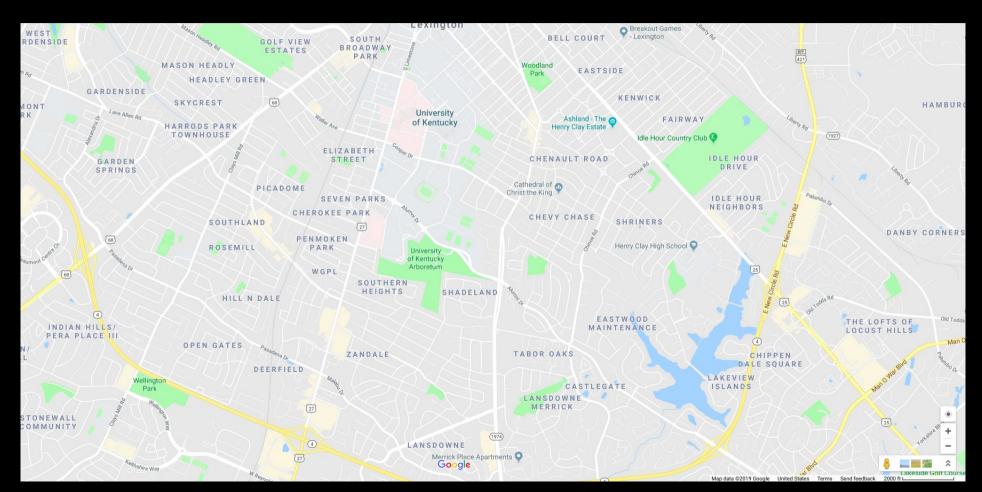
- Scale = Ratio
 - Graphical
 - Fractional
 - Map ratio
 - 1:15000
 - -1 cm = 0.15 km
 - Verbal
- Length measured on the map and corresponding distance on the ground

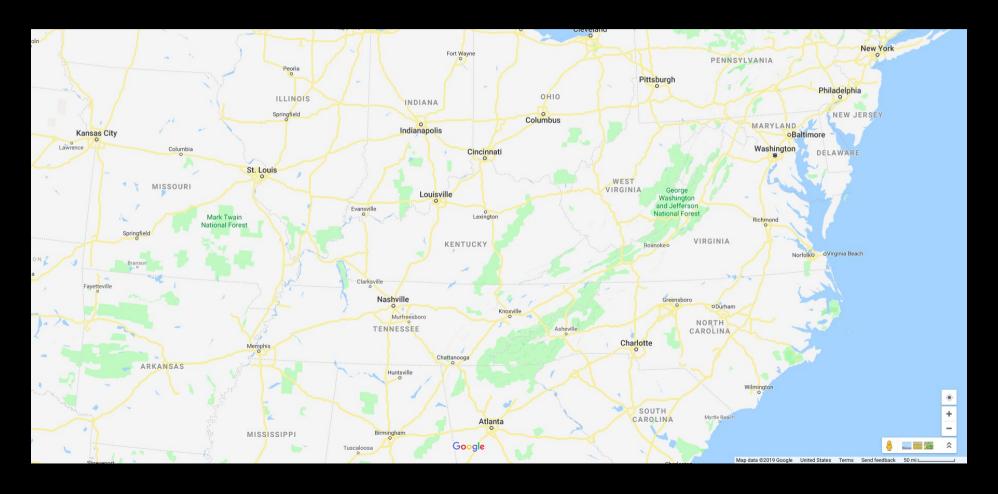


- Graphic scale
 - Advantage
 - Retain meaning with resizing
 - Disadvantage
 - Most accurate at center of map
 - Culture bound (metric vs English)

- Fractional scale
 - Advantage
 - Easier to culturally translate
 - Disadvantage
 - Recalculate when resize map
 - Tough to imagine
 - Requires a bit of math to use

- Large scale
 - Large representational fraction
 - Denominator is small
 - Objects represented are large and detailed
- Small scale
 - Small representational fraction
 - Denominator is large
 - Objects represented are small and less detailed



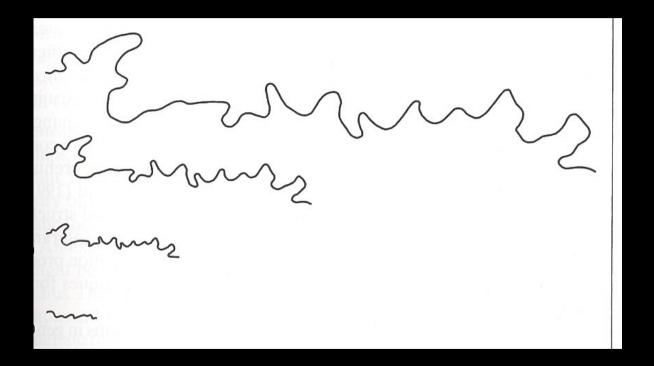


- Selecting a scale
 - Ability to communicate
 - Symbolization
 - Accuracy
 - Appearance

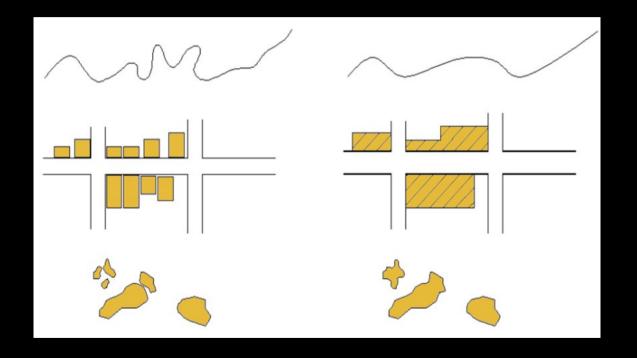
- Selection
- Simplification
- Smoothing
- Displacement

- Selection
 - What space to be mapped?
 - Scale
 - Projection
 - Data
 - Gathering
 - Sampling
 - Variable selection

- Simplification
 - Selection
 - Classification
 - Smoothing



- Smoothing
- Displacement
 - Structural
 - Conceptual



Demo