

Geography 12: Maps and Spatial Reasoning
Lecture 21: Thematic and Special Purpose Maps

Professor Keith Clarke



Special purpose maps

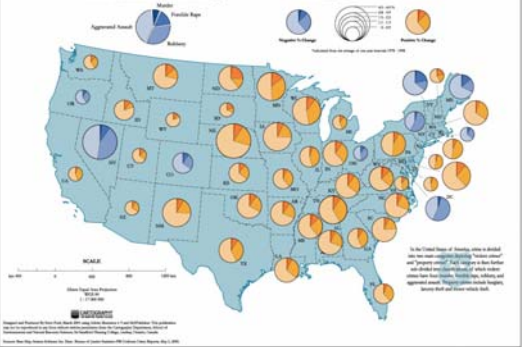
- Cartograms
- Highway maps and Atlases
- Weather and Climate
- Geological maps
- Historical maps vs. History Maps
- Extra-terrestrial mapping
- Journalistic maps
- Tactual maps

VIOLENT CRIMES IN THE USA

FLUCTUATIONS AND DIVISIONS BY STATE BETWEEN 1978 AND 1998

Percent of Each Classification in the Violent Crime Category

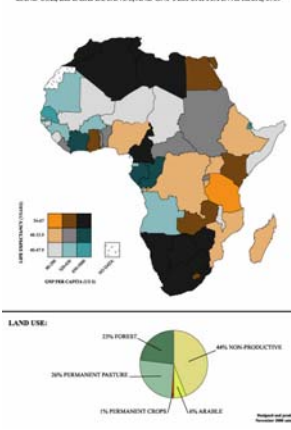
Percent Change of Violent Crimes Over 20 Years

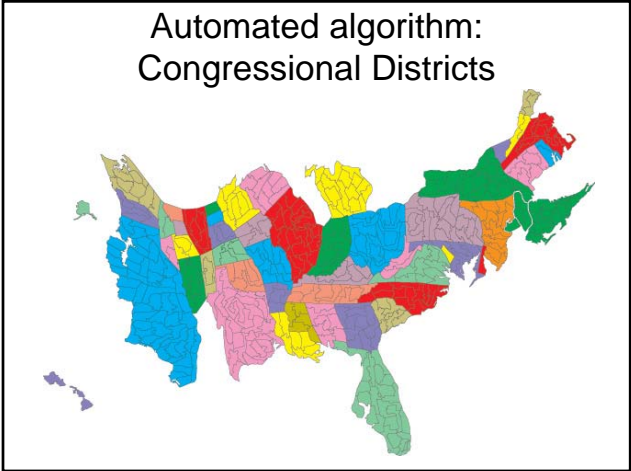
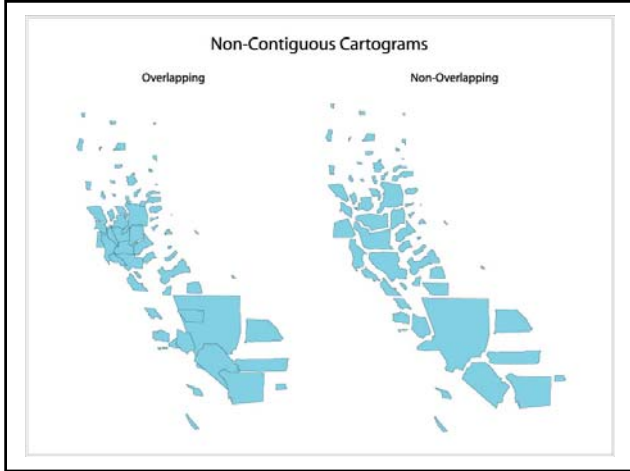
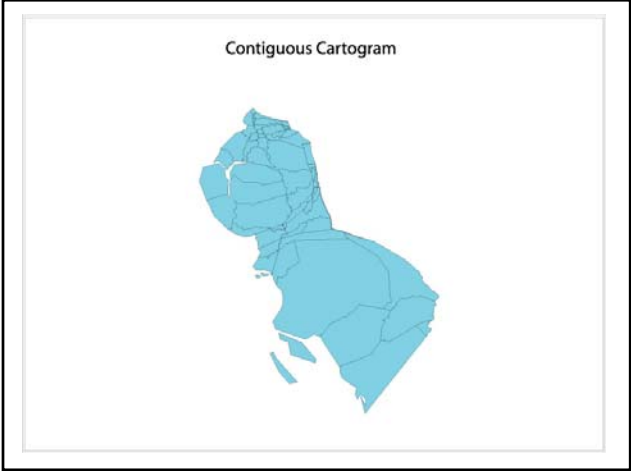
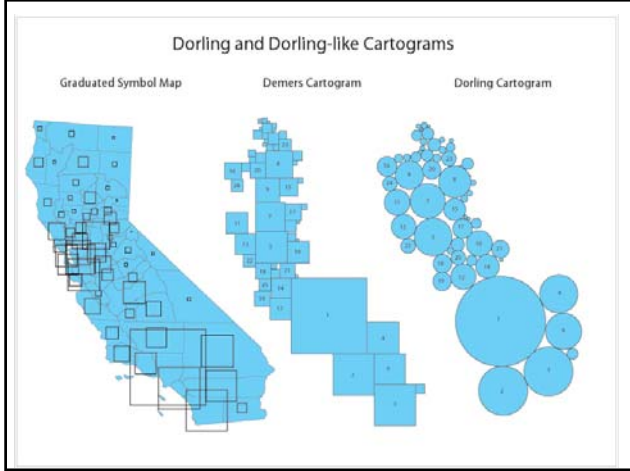


TORONTO AVERAGE HOUSEHOLD INCOME



LAND USE, LIFE EXPECTANCY, AND GNP PER CAPITA IN AFRICA, 1989

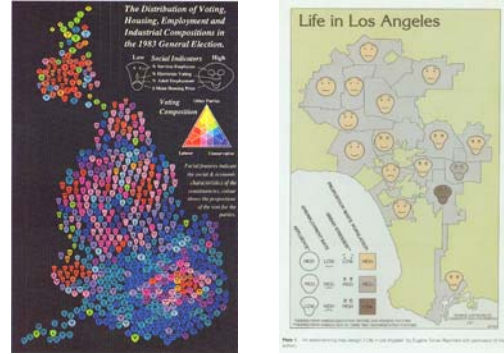




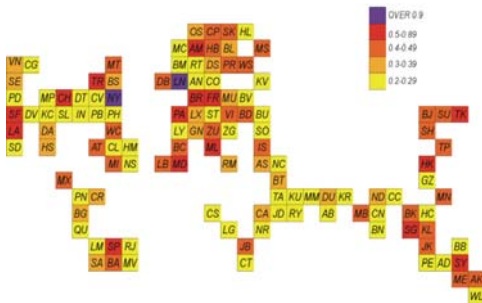
Iterative generation



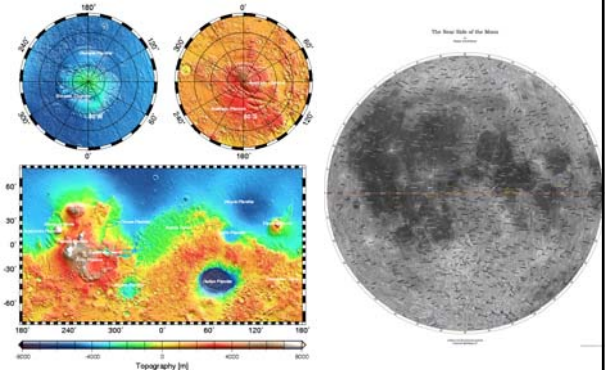
Chernoff faces



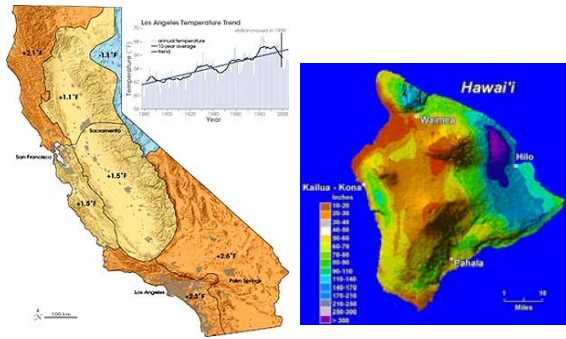
Abstract cartogram



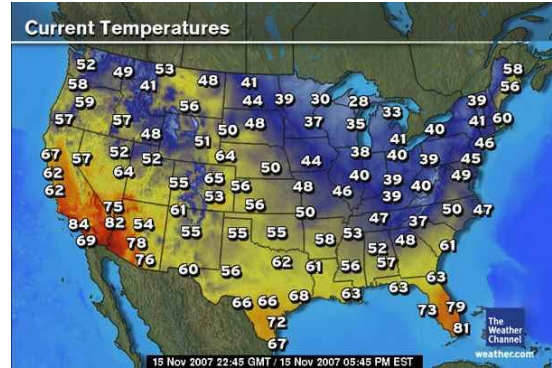
Extraterrestrial mapping



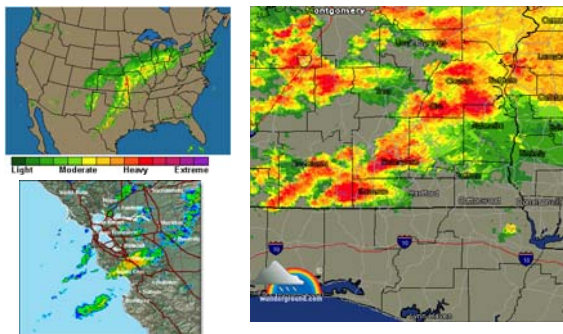
Temperature and precipitation



The weather



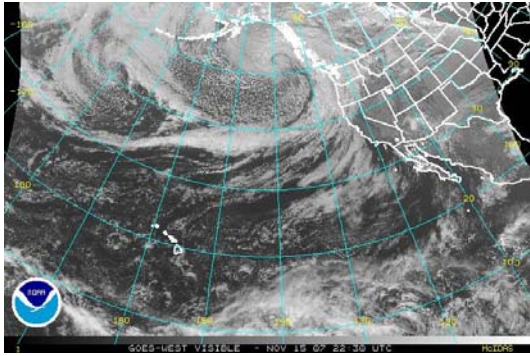
Radar



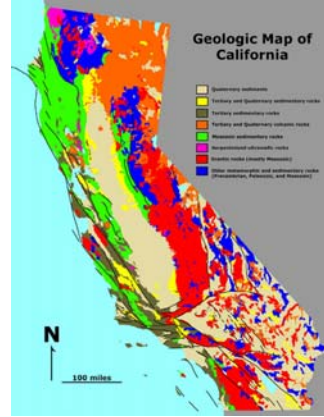
Weather satellites



GOES NOAA



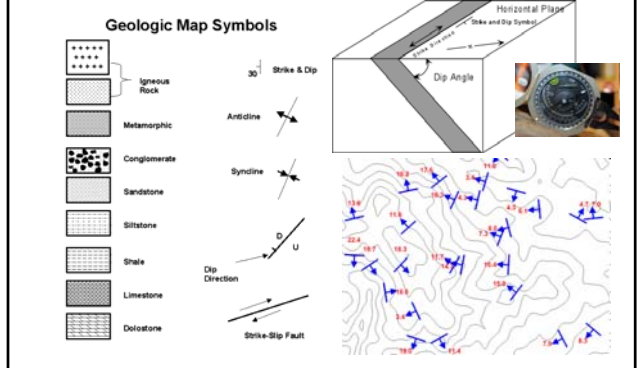
Geologic Map of California

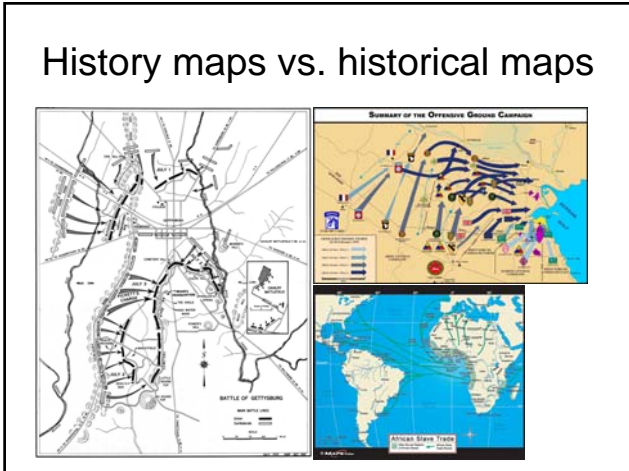
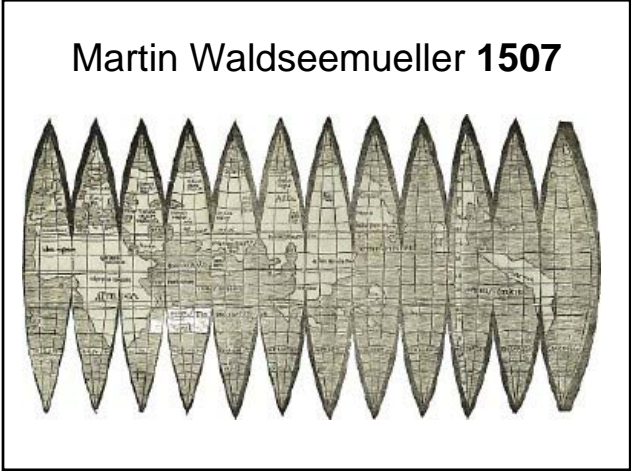
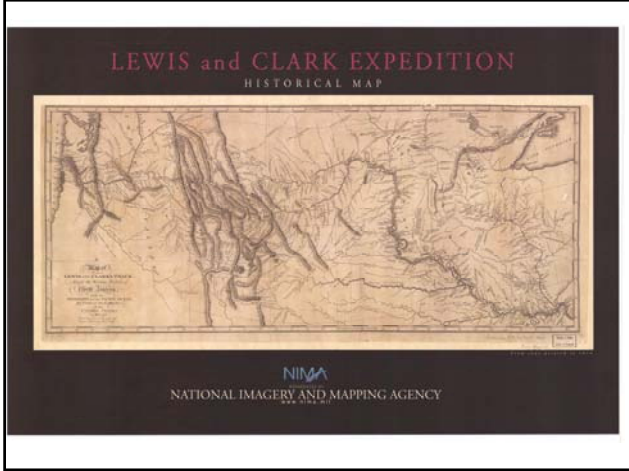


Geological map

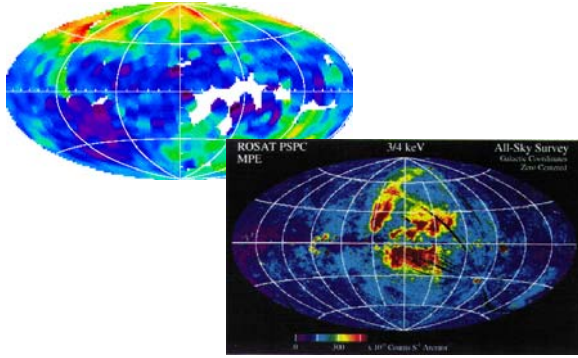


Specialized Symbols

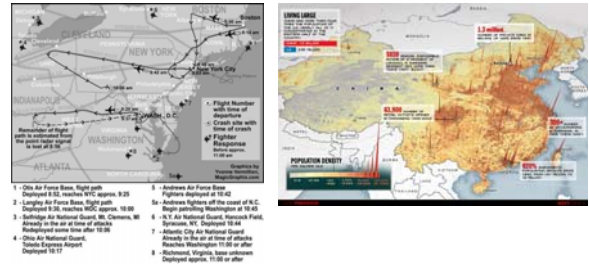




X-ray surveys



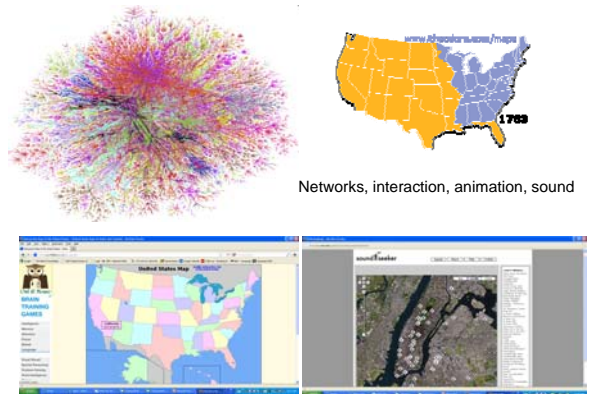
Newspapers and magazines



Television



The Web



Tactile maps



Hung Hom Train Station, Kowloon, HK



Summary

- Many special purpose thematic maps
- Cartograms especially powerful
- Specialty maps for different applications and disciplines, e.g. weather, geology, travel
- Many different media: books, magazines, newspapers, TV
- Web allows interaction, animation, sound
- Once uncommon, now part of the everyday fabric of life