

Visualizing Time, Space, and Genealogy Sets with Maps

Robert Ball

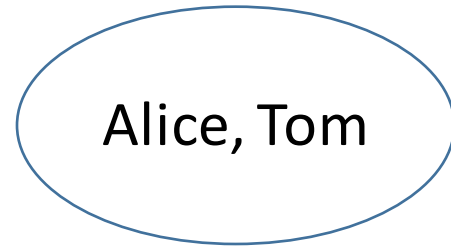
Department of Computer Science

Weber State University

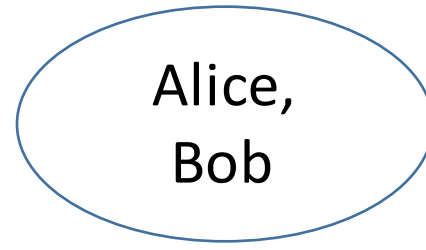


Key Features

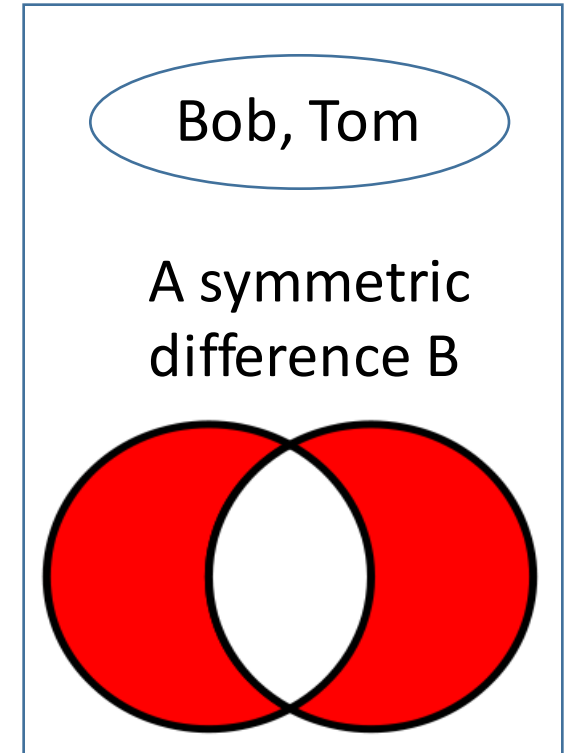
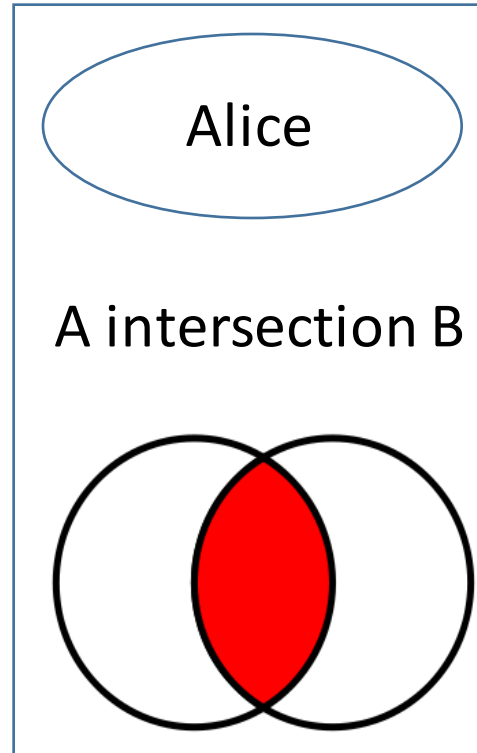
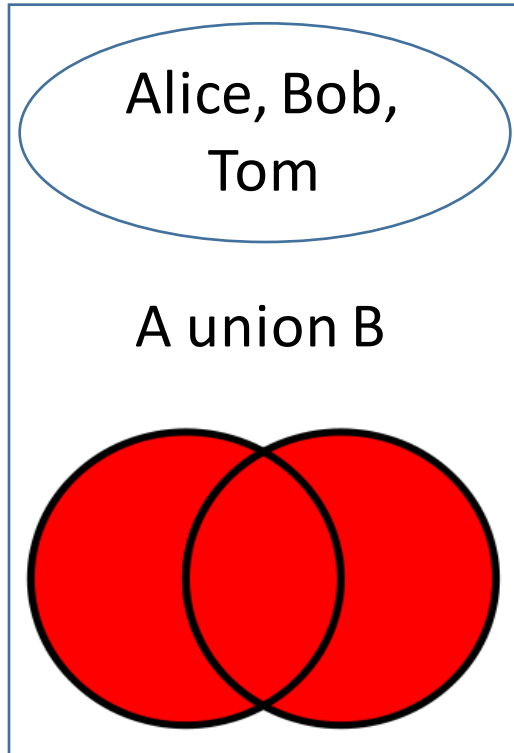
- Sets of data
- A number of independent controls:
 - Map view (location and zoom)
 - Two sliders to control time:
 - Map slider
 - Person slider
 - Sliders can be synced either at low end or high end



Set A



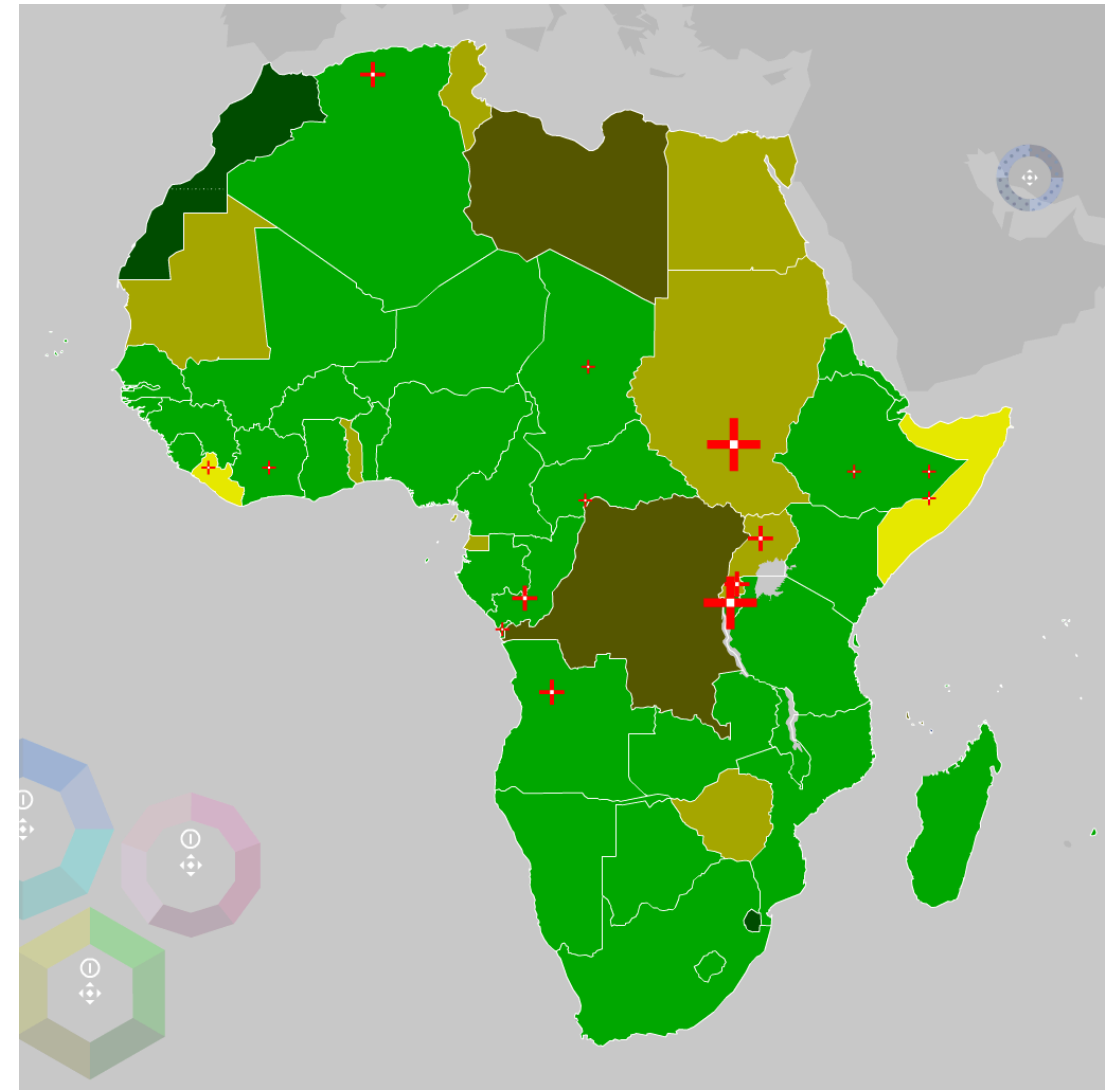
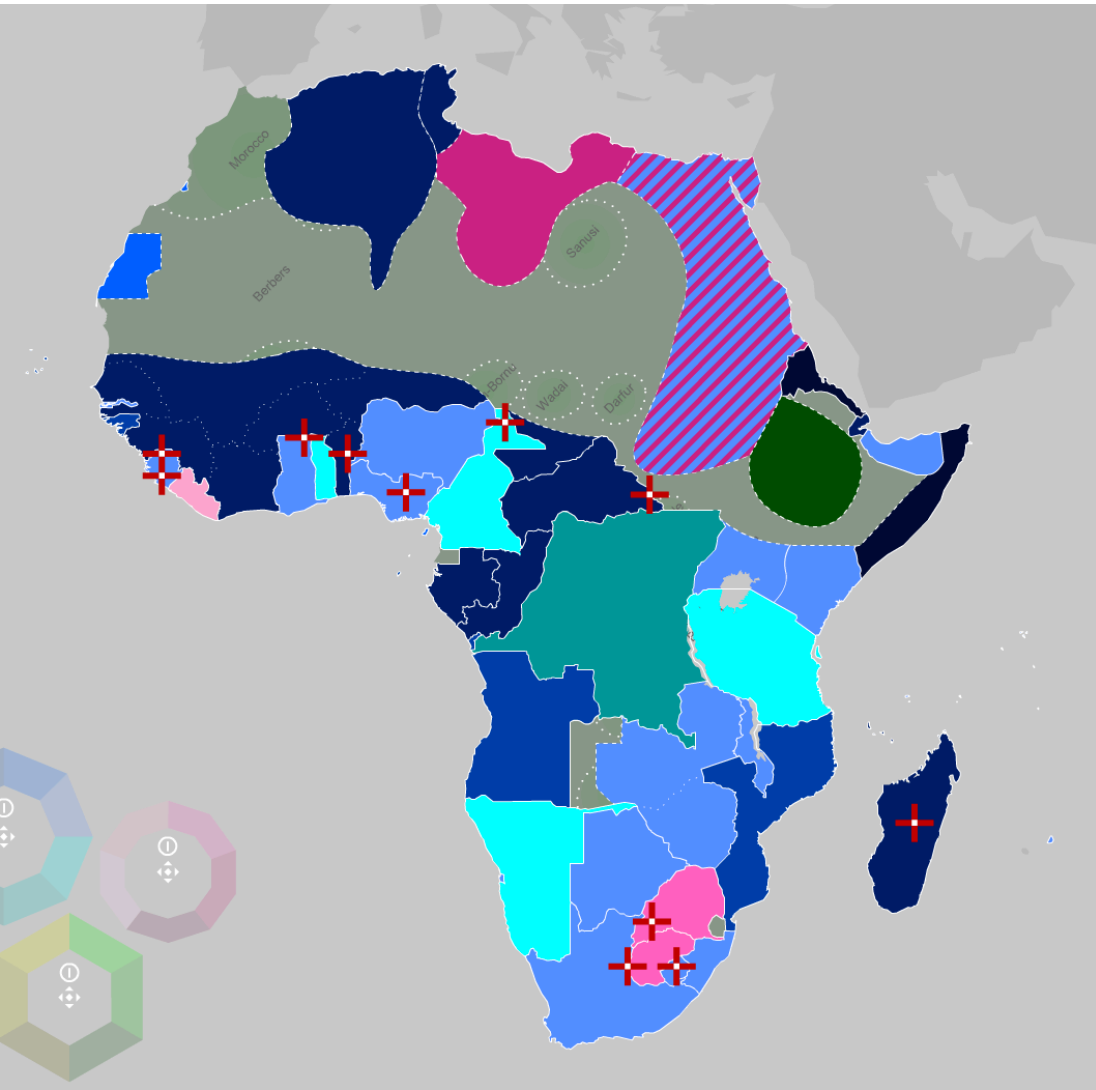
Set B



Examples of sources of historically-correct maps

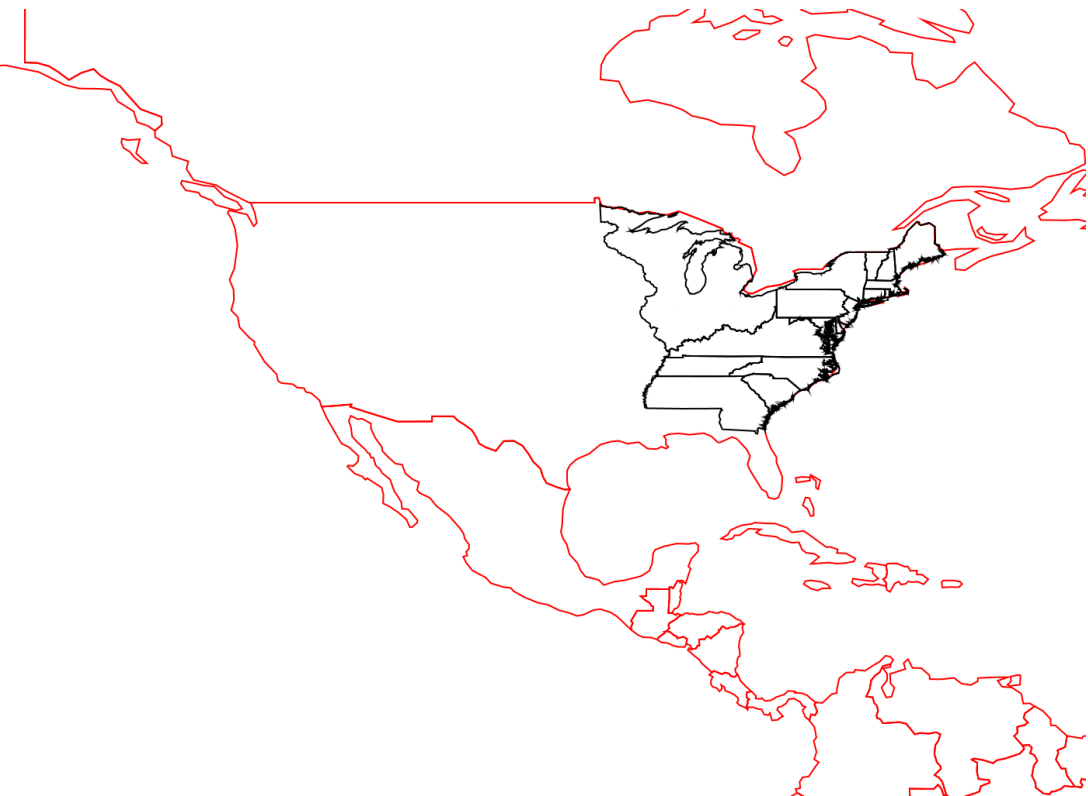
- Historically-correct maps of Africa from 1879 to the present:
<http://www.brown.edu/Research/AAAH/map.htm>
- Ancient maps of Japan:
<http://www.fas.harvard.edu/~chgis/japan/archive/>
- Historically-correct maps of China from 221 BC – 1911 AD:
<http://www.fas.harvard.edu/~chgis/data/chgis/downloads/v4/>
- The National Historical Geographic Information System (NHGIS) - GIS-compatible boundary files for the United States between 1790 and 2010: www.nhgis.org/
- Ancient Greece and Rome: <http://pleiades.stoa.org/>

Example of Africa in 1900 (left) and 2002 (right)

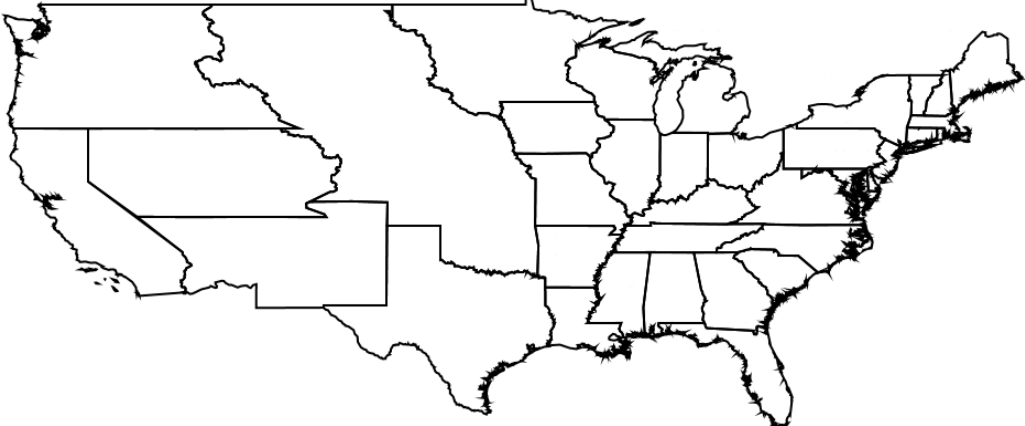


Map View

Can show historically-correct map with or without present-day overlay



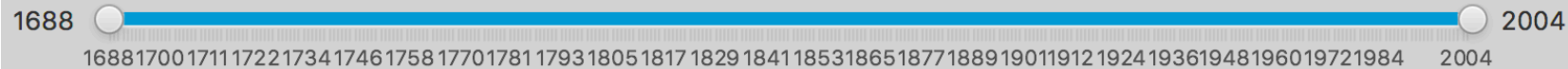
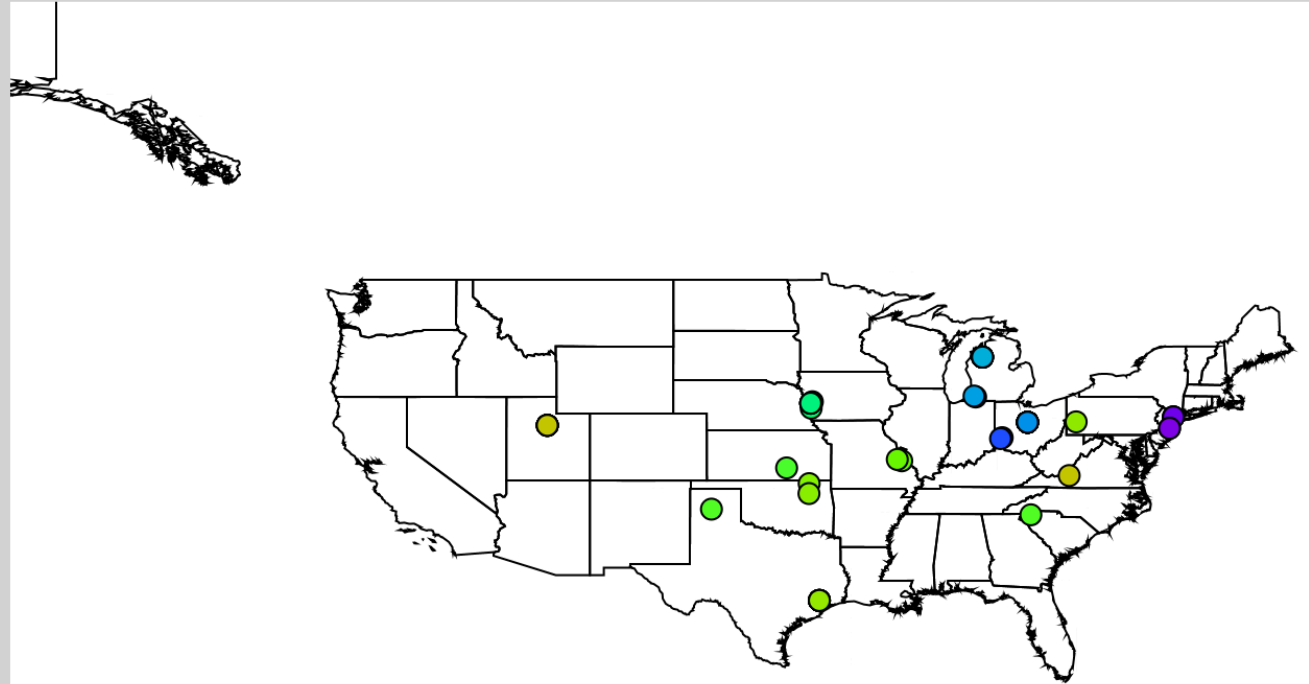
Slider to move through historical maps



Person-slider

- Color-coded to indicate year of event
- Each colored circle is an event for a person

Set 1



Demo