

Geog183: Cartographic Design and Geovisualization Spring Quarter 2020

Lecture 8: Toponymy, typography and map text

Dealing with text

- What text and language?
- What component: map, legend, reference frame, metadata
- What design elements: font, variation, color, spacing
- What text: selection
- Where: placement and design
- Where: rules of precedence and overlap
- Text as symbol

toponymy

- The study and practice of placing of place names on maps especially those derived from topographical features
- Gazetteer: A dictionary, listing, or index of geographic names
- **Board on Geographic Names**: a Federal body created in 1890 and established in its present form by Public Law in 1947 to maintain uniform geographic name usage throughout the Federal Government
- GNIS: USGS BGN data base containing all US domestic place names
- GEOnet Names Server (GNS) provides access to the National Geospatial-Intelligence Agency's (NGA) and the U.S. Board on Geographic Names' (BGN) database of foreign geographic feature names.

Place names matter

Home » Cartography, Geopolitics, Place Names, Southwest Asia and North Africa

What's In A (Place) Name? The Gulf Controversy

Submitted by Martin W. Lewis on January 20, 2010 - 7:06 pm



In mid-January 2010, the Islamic Solidarity Games—scheduled to take place in Tehran in April—were cancelled over a toponymic dispute. The Iranian organizers of the athletic competition insisted on labeling the body of water located between Iran and the Arabian Peninsula the "Persian Gulf" in their promotional materials. The event's organizing committee, based in Saudi Arabia, refused to tolerate such effrontery, and called off the competition. Officials in Saudi Arabia, like those in many other

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Arabic-speaking countries, regard the term "Persian Gulf" as a form of Iranian cartographic imperialism. They prefer Arabian Gulf, and if that name cannot be used, they insist on a neutral term such as The "Arabo-Persian Gulf" or simply "The Gulf."

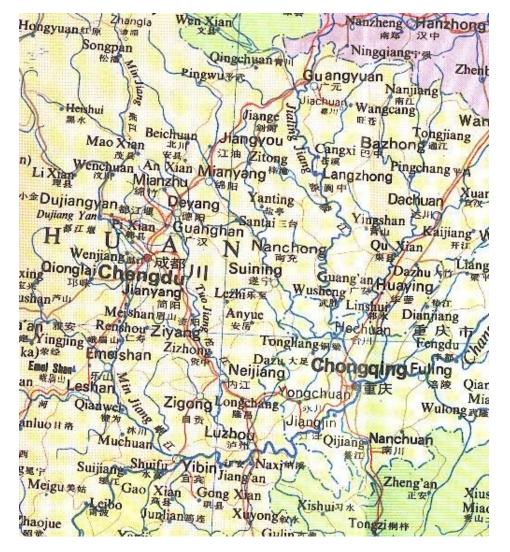
This controversy reveals the deep cultural cleavage between Iran and the Arabic speaking realm. Most other bodies of water named for particular places do not inspire much animosity. The United States lodges no protests over the Gulf of Mexico; India does not object to the Arabian Sea; Malaysia has no problem with the South China Sea; Taiwan and Japan do not worry about the

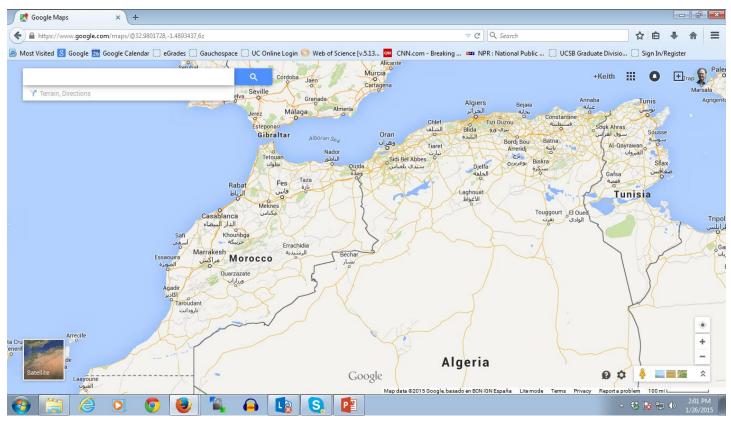


GEOnet Names Server: NGA

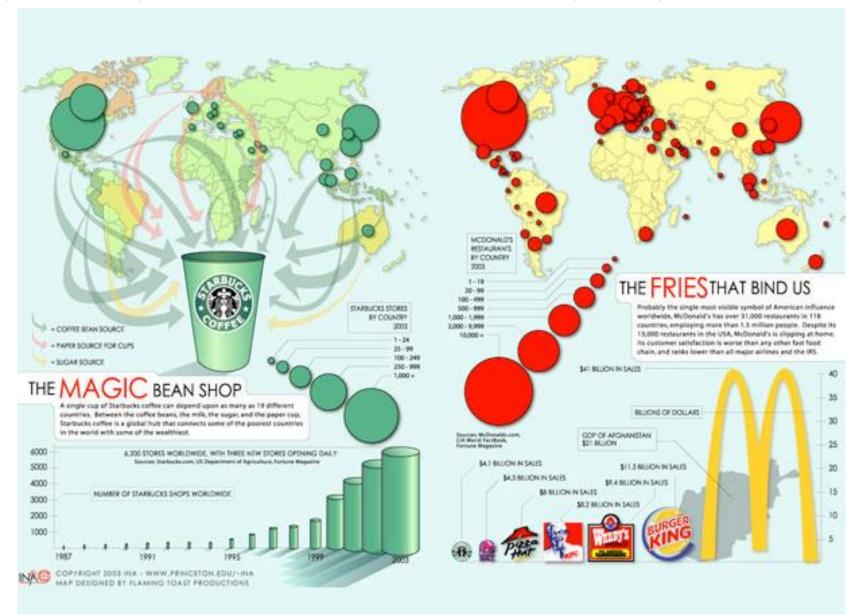
- The GNS is the official repository of standard spellings of all foreign geographic names, sanctioned by the United States Board on Geographic Names (US BGN).
- The database also contains variant spellings (cross-references), which are useful for finding purposes, as well as non-Roman script spellings of many of these names.
- All the geographic features in the database contain information about location, administrative division, and quality.
- The database can be used for a variety of purposes, including establishing official spellings of foreign place names, cartography, GIS, GEOINT, and finding places.

Language





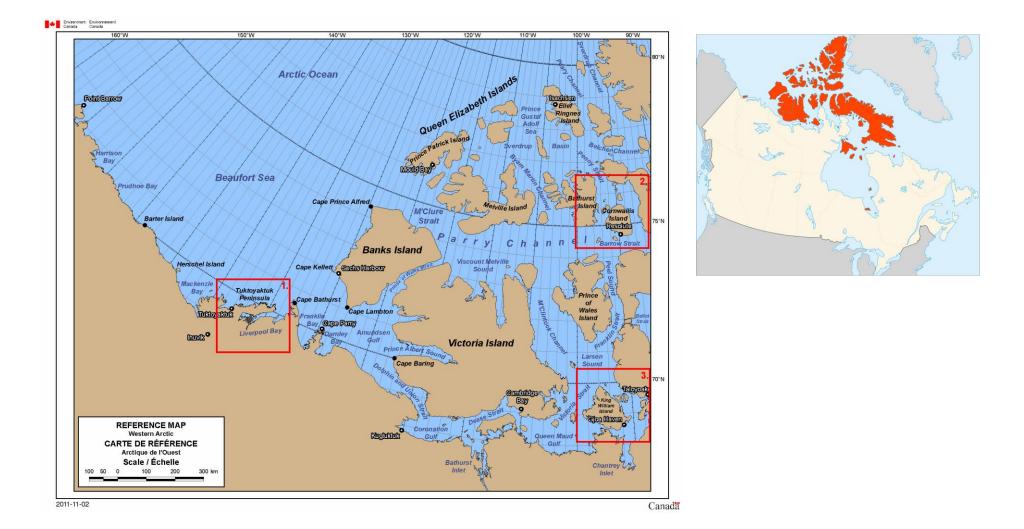
Map components: Text and toponyms



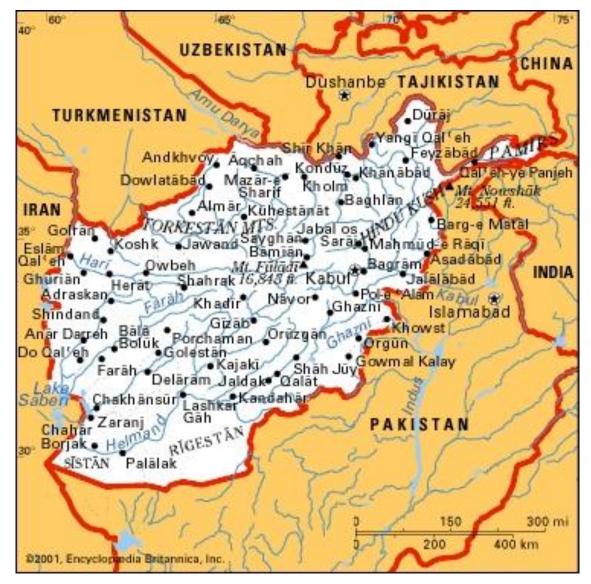
Text design



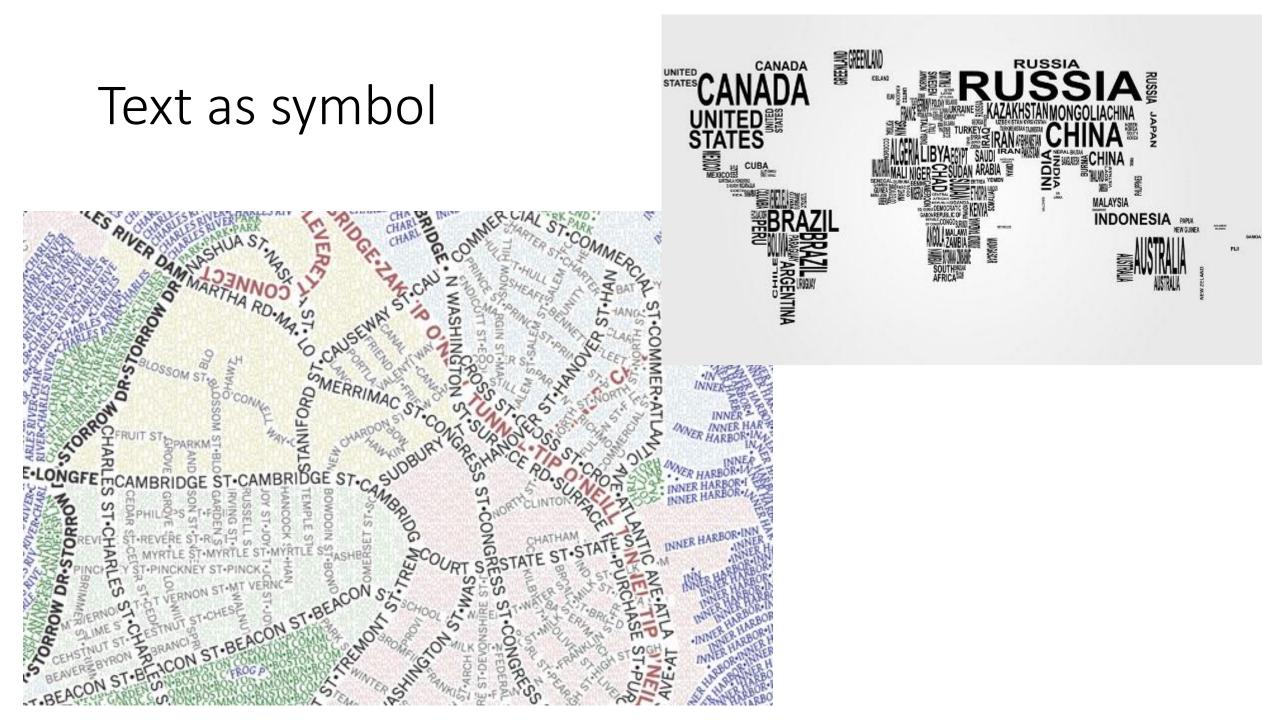
Selection



Placement and design

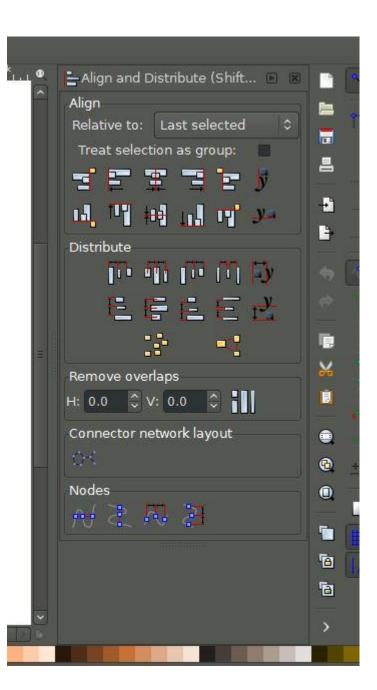


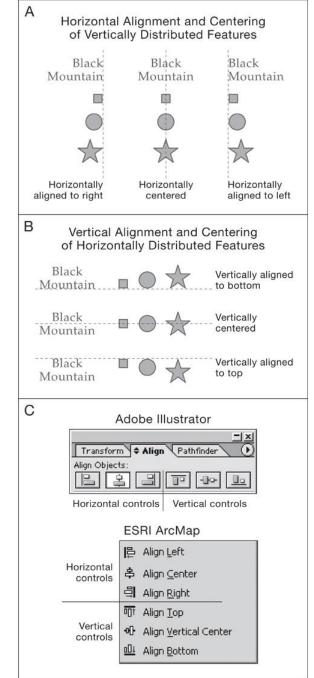




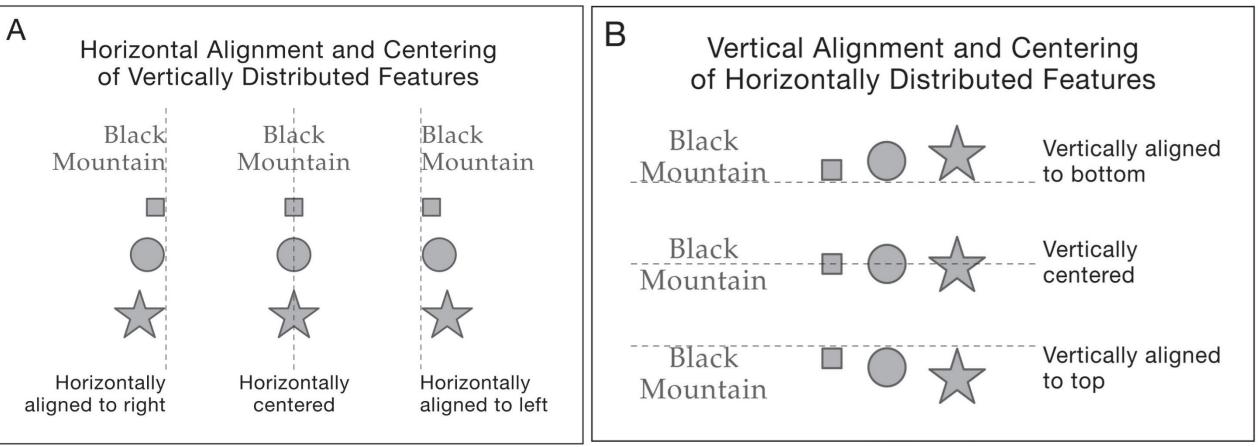
Placement tools

Text and Font (Shift+Ctrl+T)				
Font Text				
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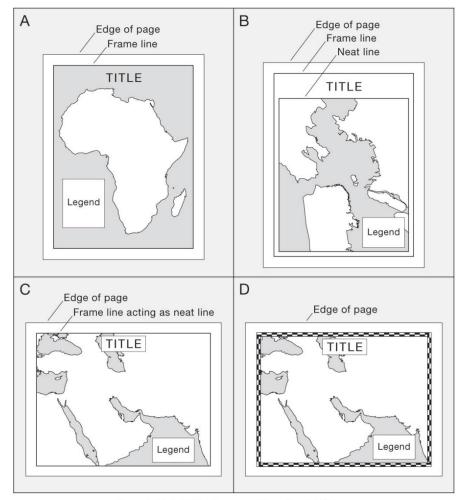


Alignment and centering

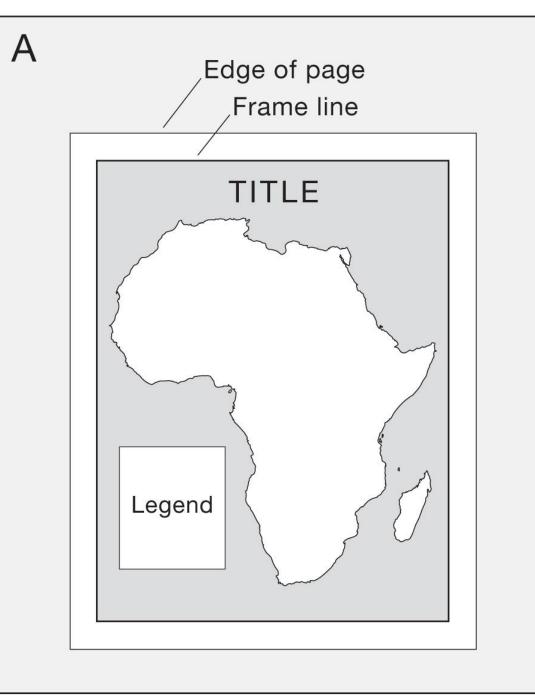


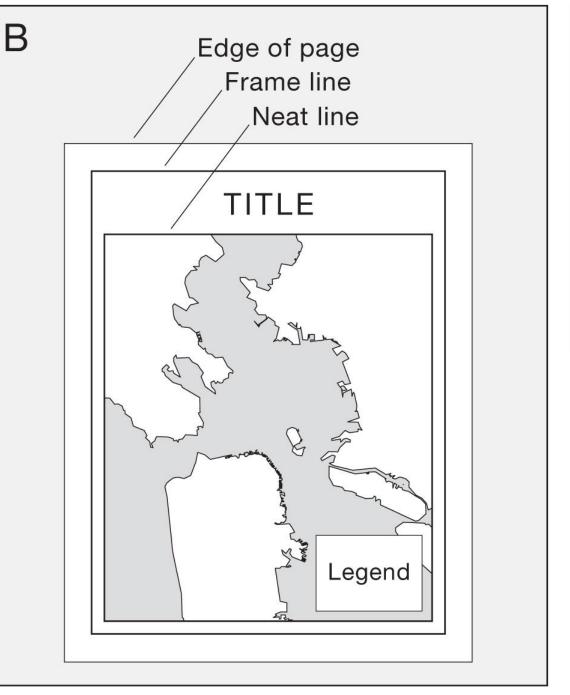
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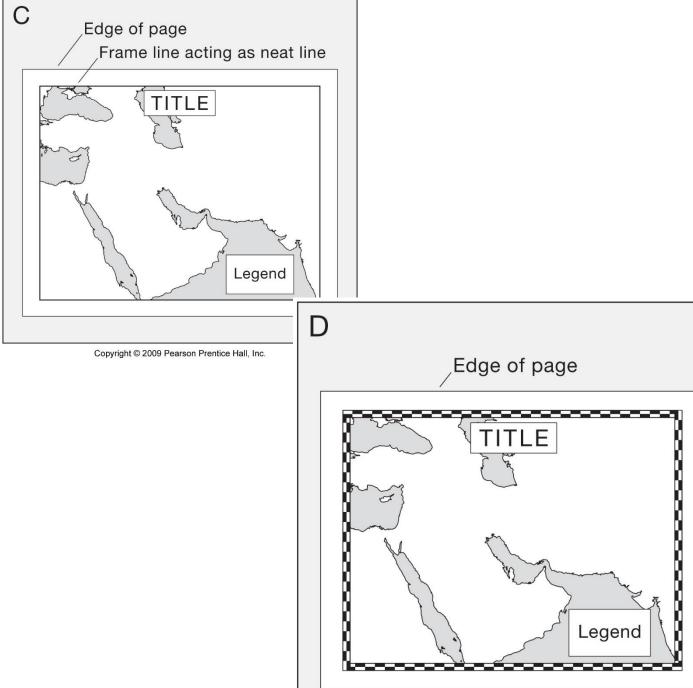
Text and Map Layout



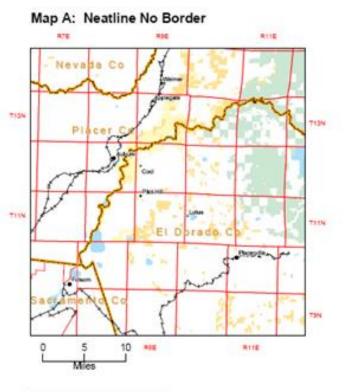
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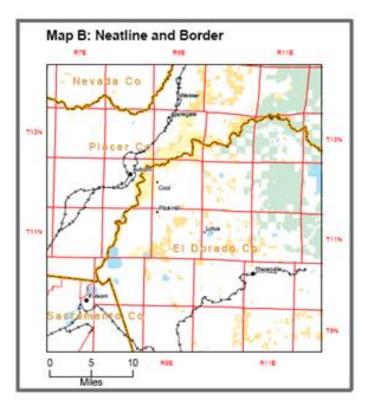




Borders and neat lines



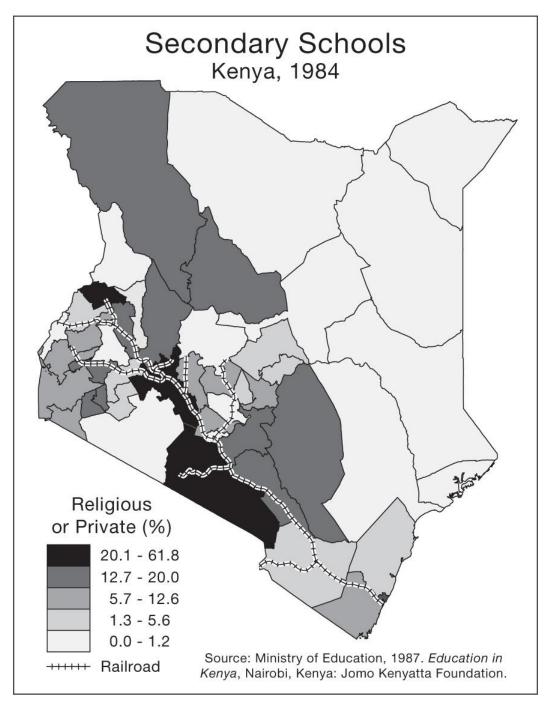




Neatlines and Borders: A neatline delineates the extent of the data. A border frames the map graphic.

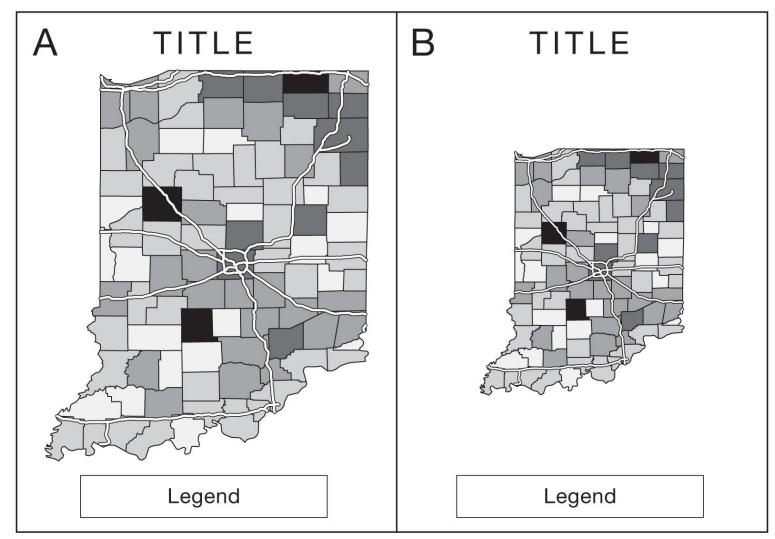
> Fran Evanisko July 12, 2004

Source, title, legend

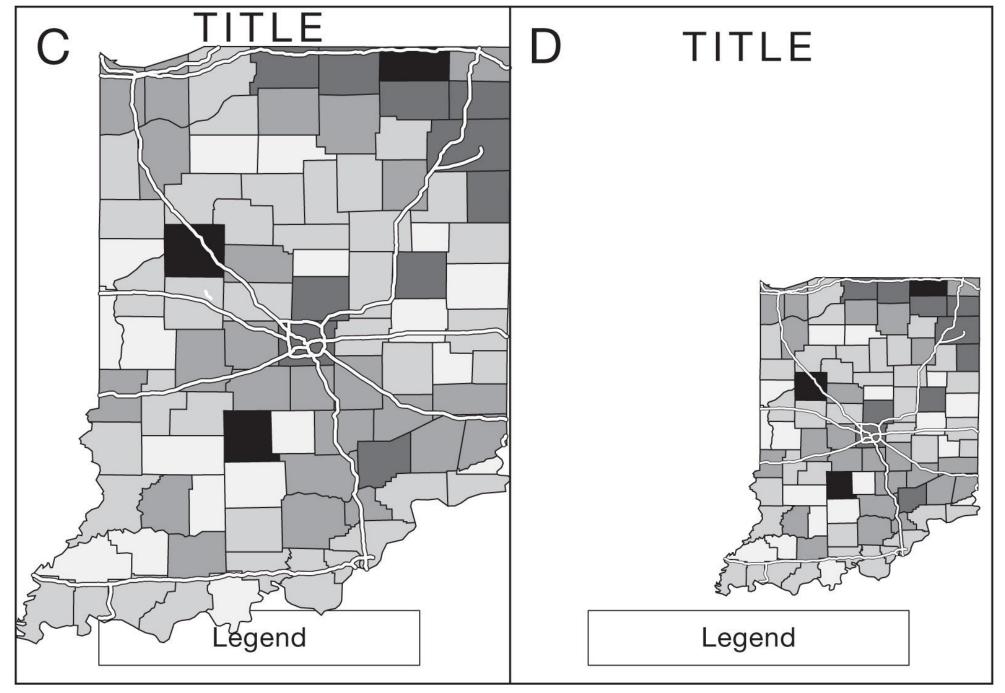


Convright @ 2000 Pearson Prontice Hall Inc.

Framing and placement

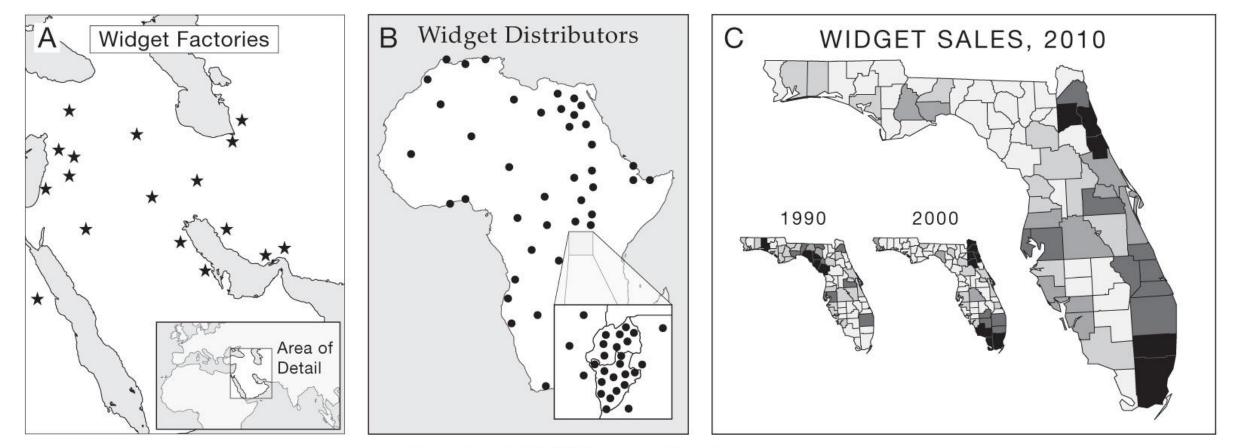


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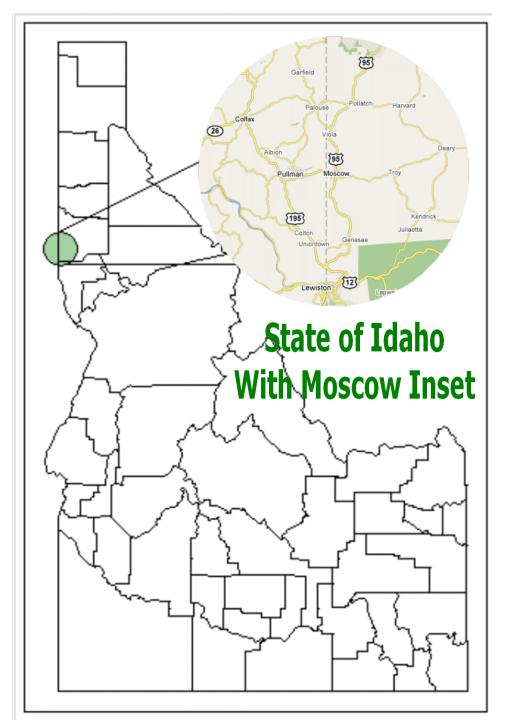


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Insets: 2 types, plus location map







Wording: Subheaders

Α

Long Term Debt AVERAGE AGE, 2001 Museums of Modern Art

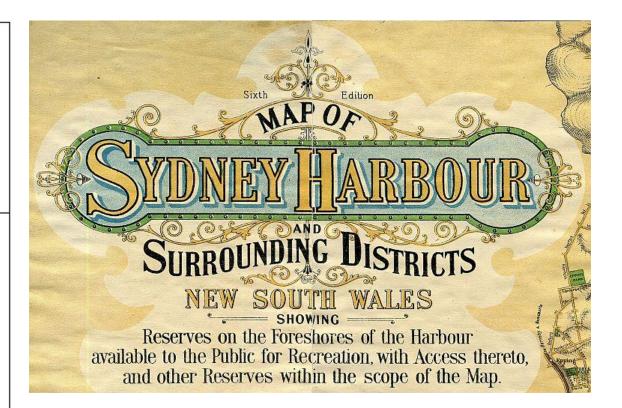
В

Population Density New Hampsire, 2010

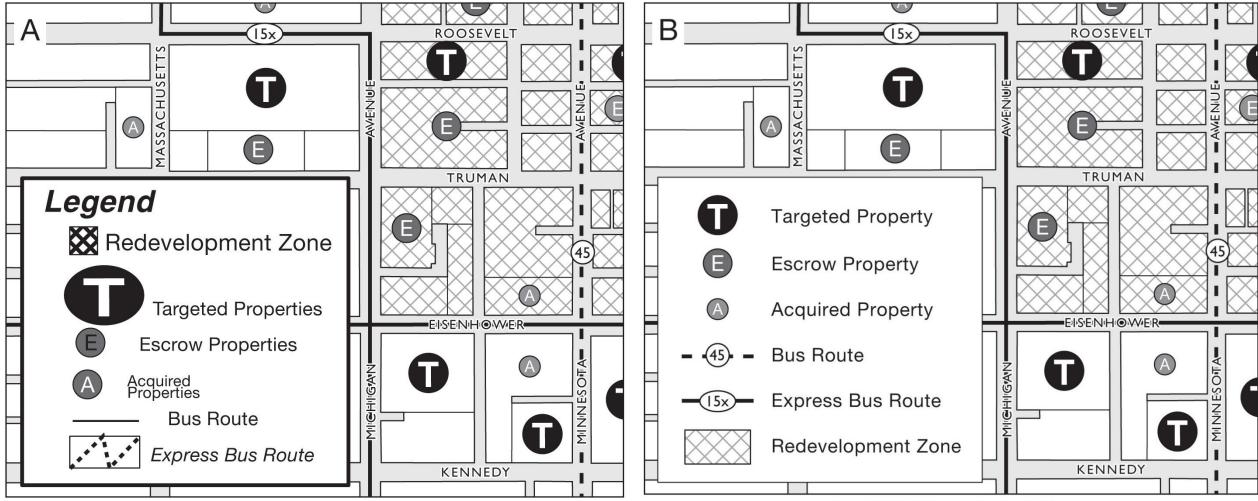
Number of Chickens Harper County

BIRTH RATE INCREASE

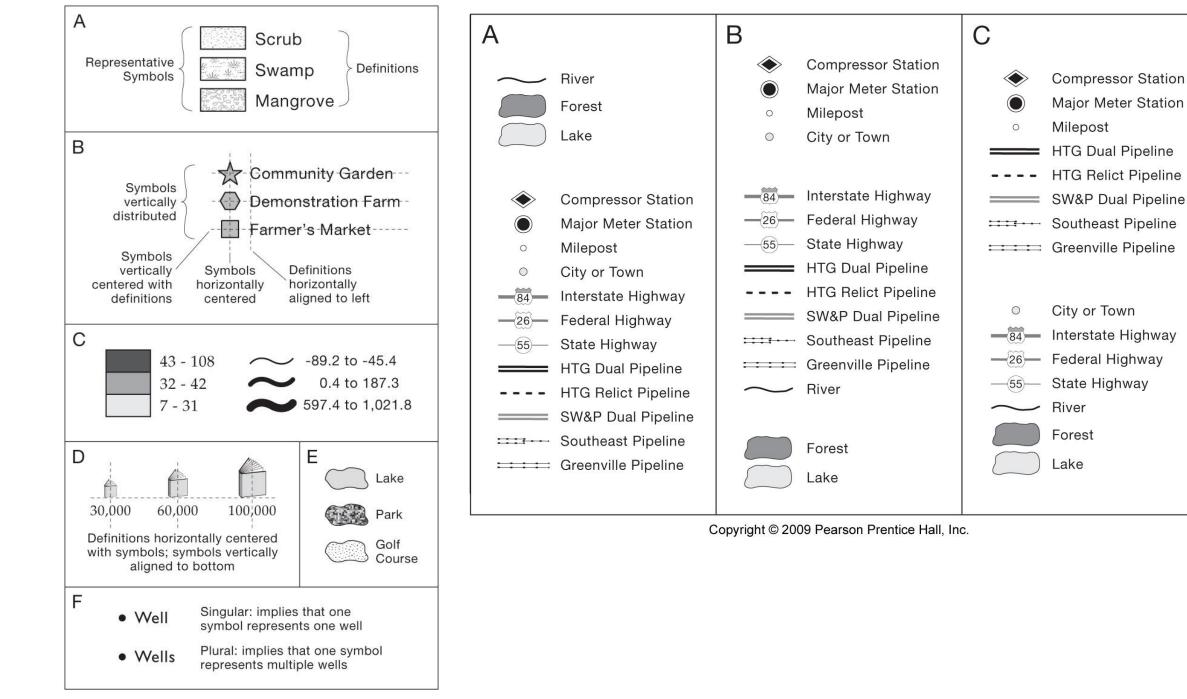
Subtitle horizontally centered below title



Legend complexities



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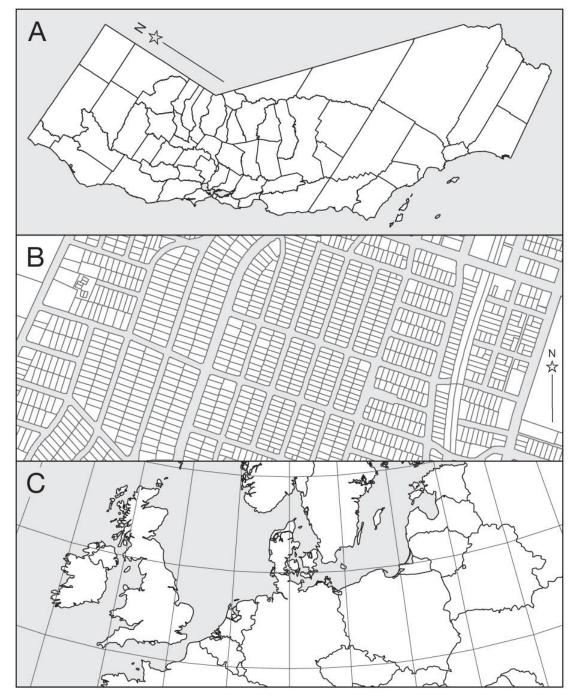
Splits

Poverty as Shown by Per Capita Income South America 2015

Poverty as Shown by Per Capita Income South America 2015

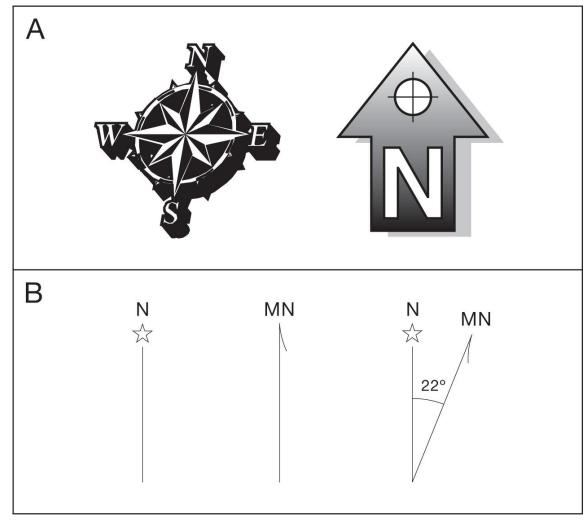


Space and layout Creating label space



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North Arrow or cartojunk?



Credits/Sources

Source: Census 2010, Summary File 3, U.S. Census Bureau.

Data Source: ESRI Data & Maps, 2007.

Source: United States Central Intelligence Agency. Map File #505103 (547149) 2-82.

Data Source: National Atlas of the United States, http://www-atlas.usgs.gov/mld/huralll.html

Source: The International Bank for Reconstruction and Development/The World Bank. World Development Report, 2000: Poverty.

Source: Field Survey by Nigel Tufnel and David St. Hubbins, December, 2008.

Multiple lines are horizontally centered

Fonts

A	B	
Type Family	Type Style	
Palatino	(Based on Palatino)	
Helvetica	Roman	
Bookman	Bold	
Gill Sans	<i>Italic</i>	
C	D	
Typeface	Type Size	
Palatino Roman	(Based on Palatino Roman)	
Helvetica Bold	Six point	
<i>Bookman Italic</i>	Ten point	
Gill Sans Condensed	Fourteen point	

Look and feel LOOK AND FEEL

Cheltanham provides an old-fashioned look.

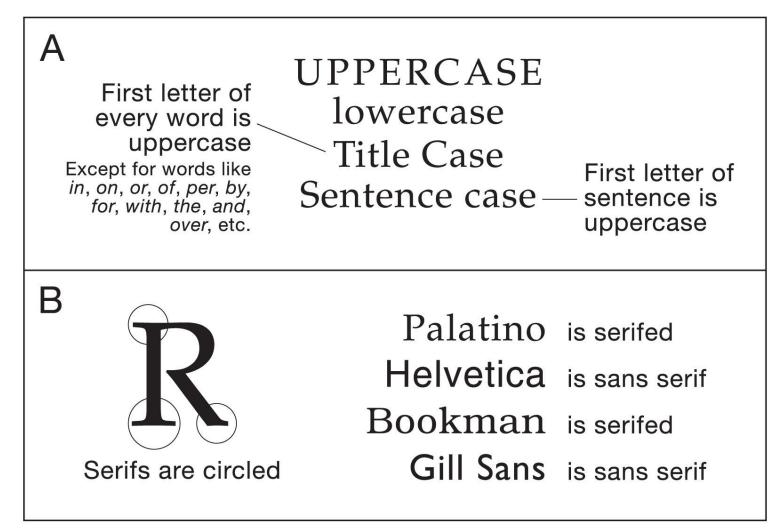
Courier looks like a typewriter.

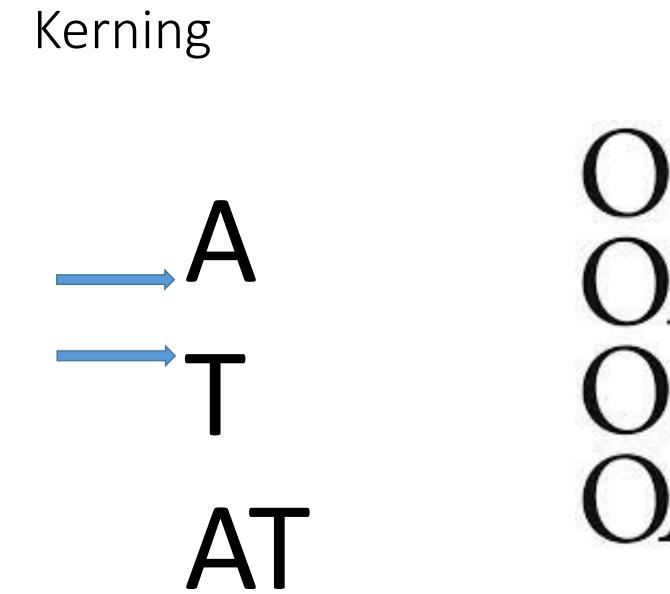
Times New Roman looks like a modern textbook.

Bookman looks like a primary school book as it is larger.

FORMAL: Times New Roman INFORMAL: Kristen ITC ывнт: Bigmouth DRAMATIC: SHOWCARD GOTHIC MODERN: Tahoma TRADITIONAL: Goudy Old Style WARM: Script MJ Bold COOL: CASTELLAR

Serifs





OATS none OATS optical OATS metrics OATS manual

Text path

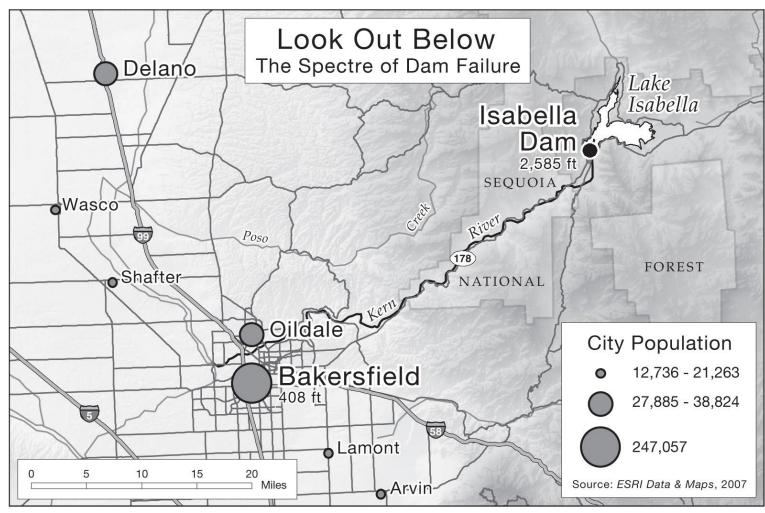
• Right

D o w n

Down, rotated

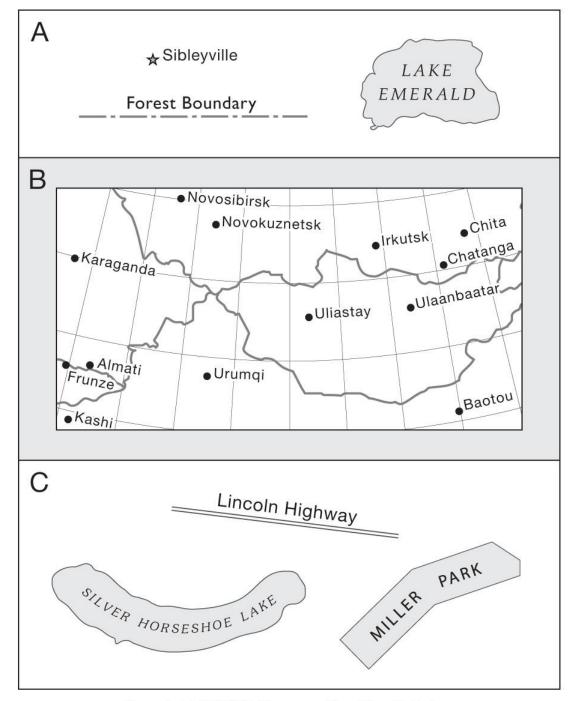


Placename size

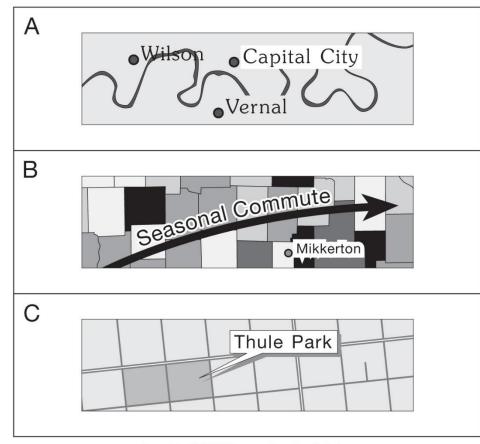


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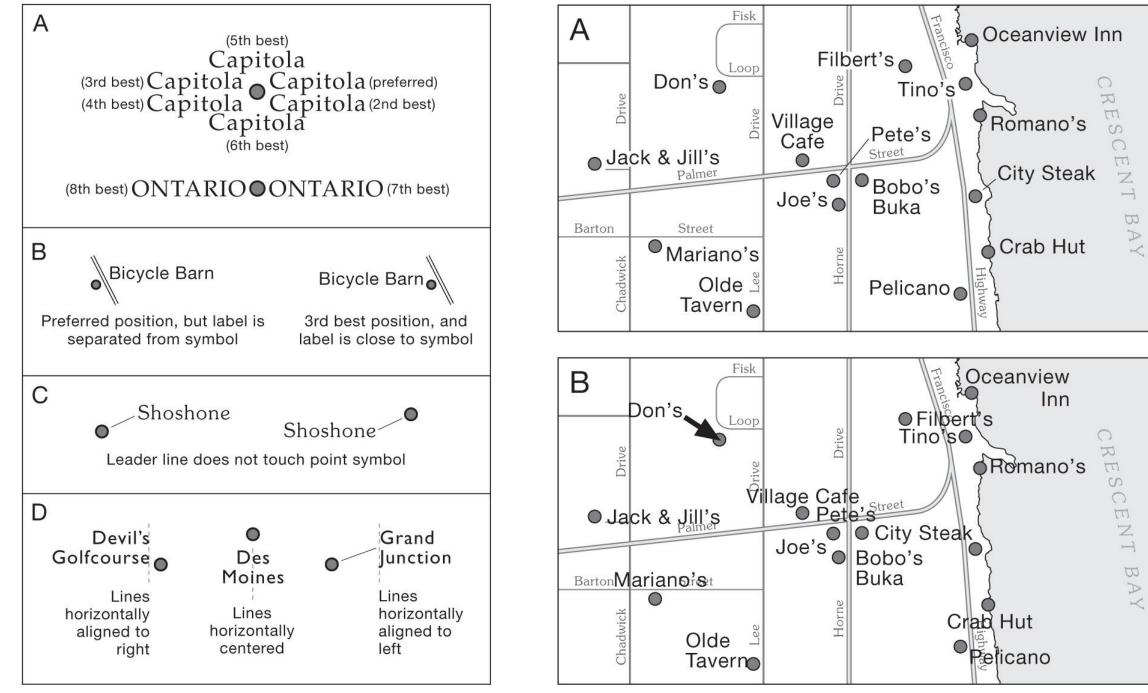
Points, lines, areas



Label highlights



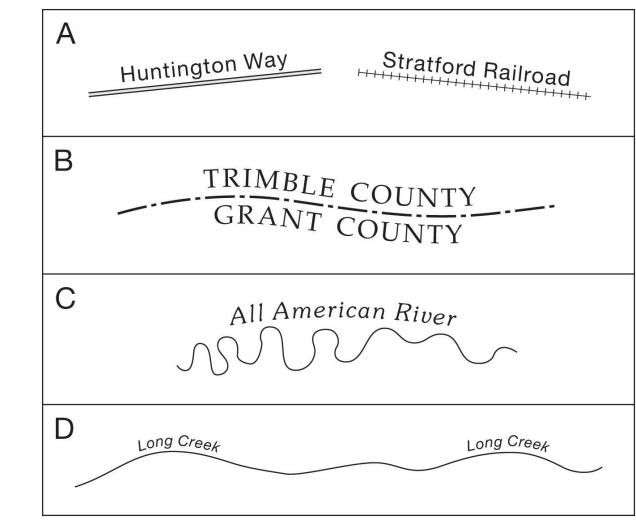
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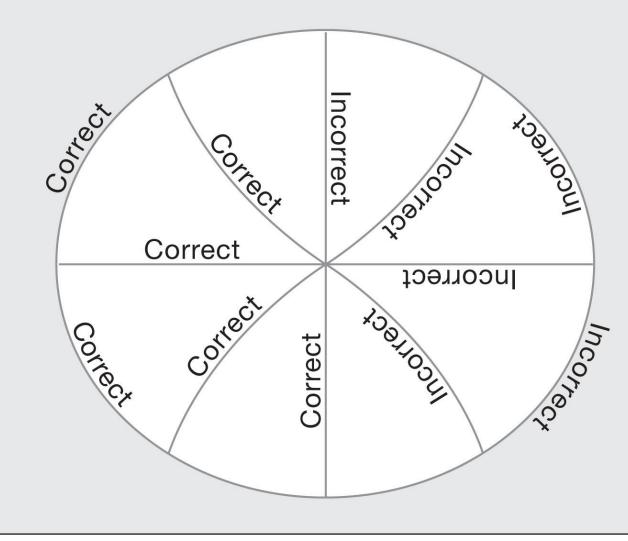
Line labels

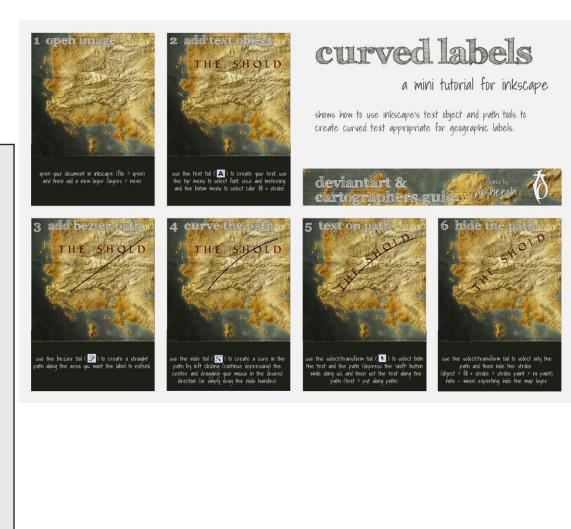




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Curved labels









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Summary

- Text makes a huge difference in a map's perceived quality
- Multiple components
- Many design aspects
- Selection, placement and design of labels
- Rules of precedence and overlap
- Text is a symbol
- Keep numbers of fonts, colors and variants to a minimum