Web Maps & Web Apps

Learning objectives

- **Consider extending mapmaking to the online space**

- **Discuss types of basic web application**

- **Create an ArcGIS Dashboard**
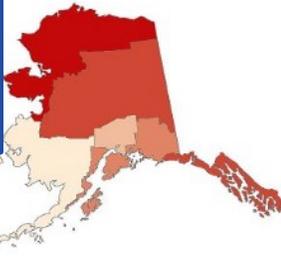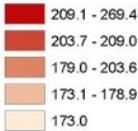
Basic anatomy of a map

Heart Disease Death Rates in Alaska by Gender & Public Health Region, 2008-2012
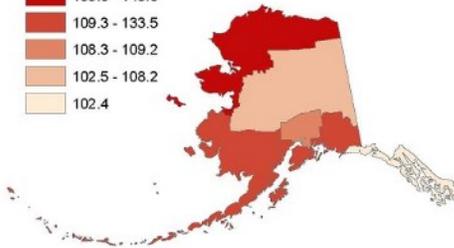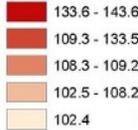
Title

per 100,000 Residents
- Federally Qualified Health Ctr
- 163.4 - 205.5
- 156.9 - 163.3
- 149.6 - 156.8
- 140.9 - 149.5
- 140.8

Map Key(s)

per 100,000 Men
- 209.1 - 269.4
- 203.7 - 209.0
- 179.0 - 203.6
- 173.1 - 178.9
- 173.0

per 100,000 Women
- 133.6 - 143.6
- 109.3 - 133.5
- 108.3 - 109.2
- 102.5 - 108.2
- 102.4

Metadata

Author: MJ Danison
All rates are age-adjusted to the 2000 US Standard Population
Source: CDC/National Center for Health Statistics National
Mortality Database accessed with SEER*Stat statistical software,
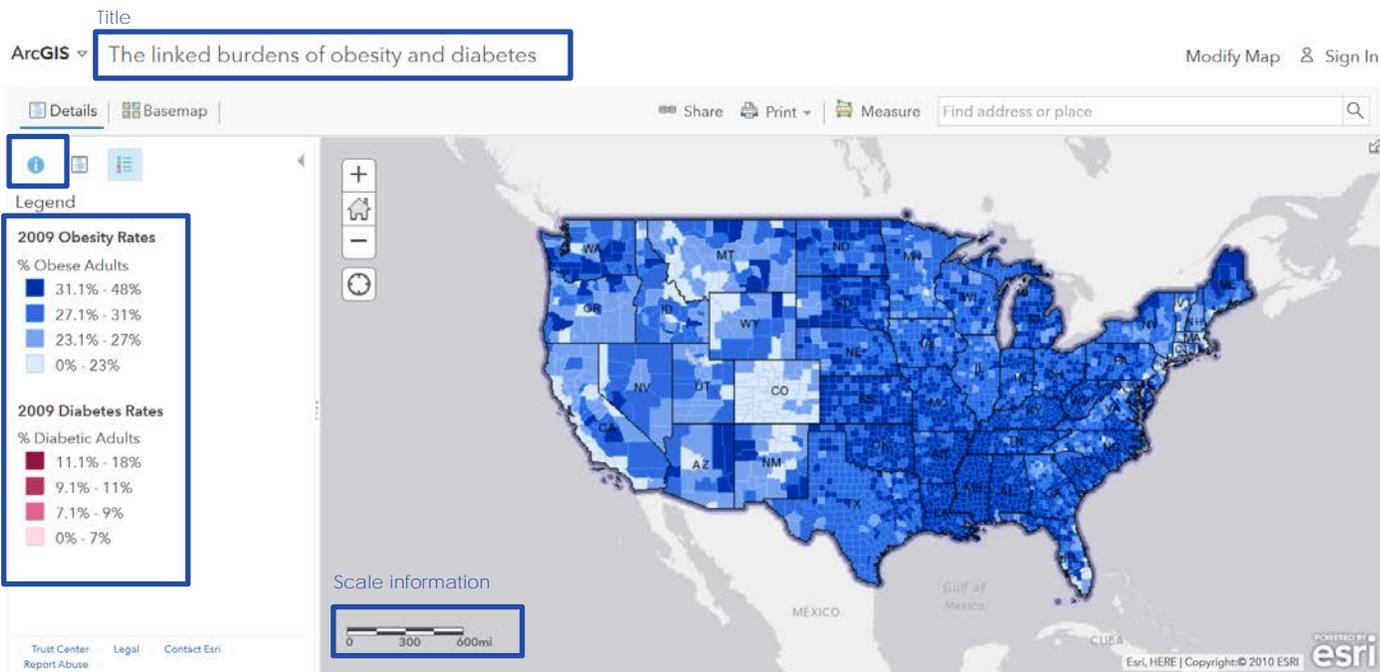HRSA Data Warehouse

Scale information

0   250   500   1,000 Miles

Understanding how to read a map allows you to capture the information it presents: what works well and what does not…

Keep in mind visual hierarchy – most important information should be easy to identify

Basic anatomy of a web map

http://arcg.is/09GLC9

How does Objective, Audience, and Medium change for interactive maps?

Generalizing vs Details

http://arcg.is/09GLC9

Find the balance between generalizing and showing details. With interactive changes in scale, web maps can show more of both.

Adding context with StoryMaps
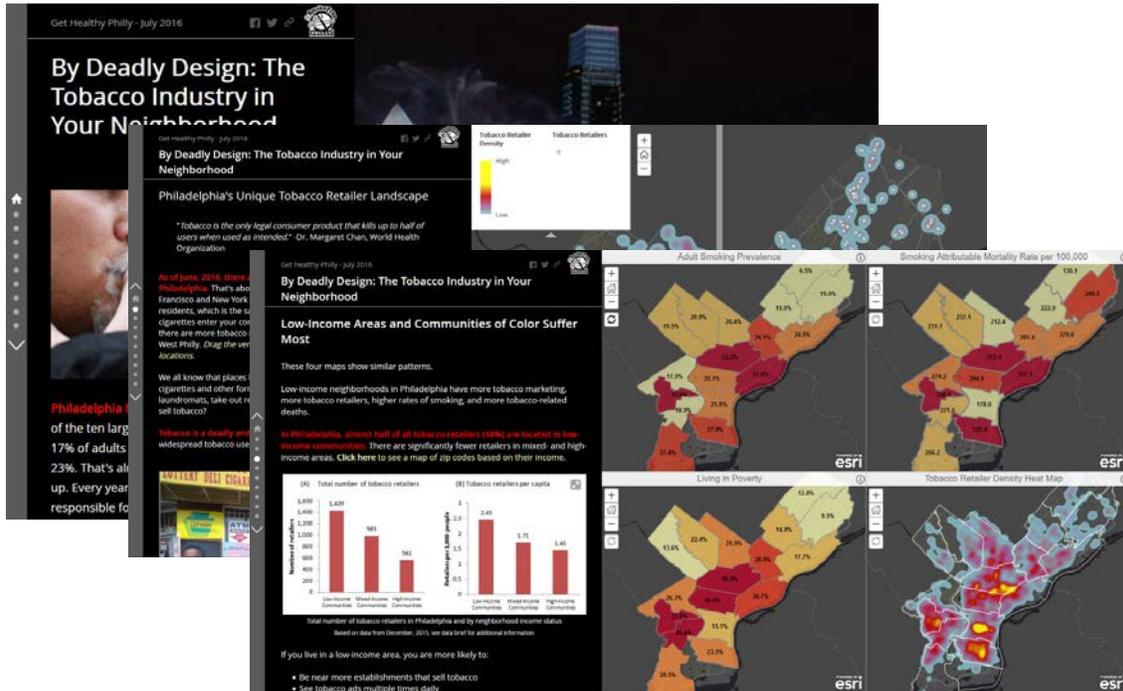
Click here to view an example of a Story Map

Online maps are a useful communication tool

 A map without context can be hard to read

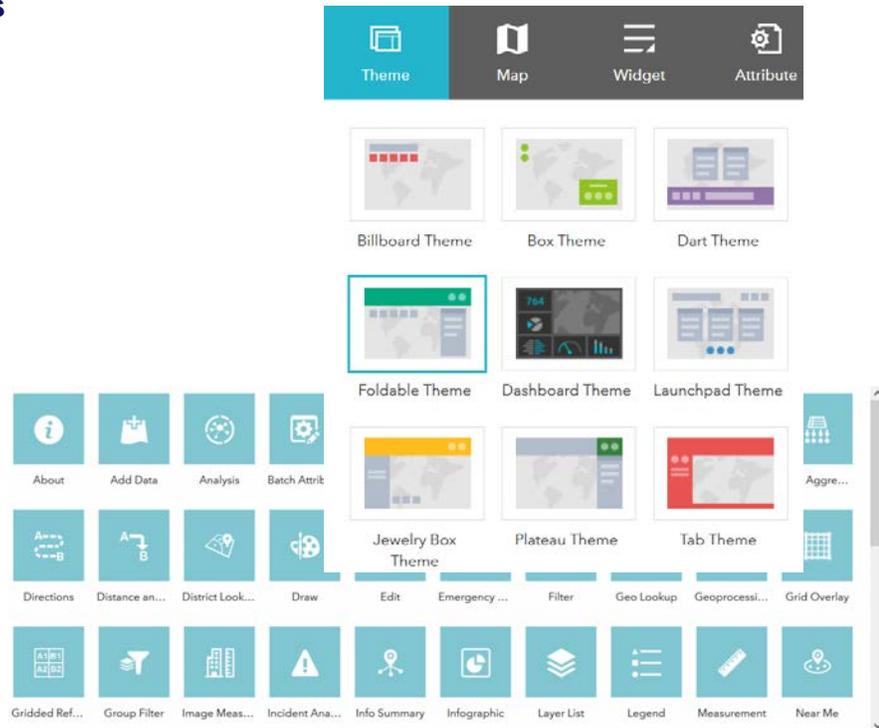 There are challenges with using a single map to tell a story

Story Map is a multi-media map aimed at storytelling

One of many Configurable App Templates (https://doc.arcgis.com/en/arcgis-online/create-maps/choose-configurable-app.htm)

Customize with Web AppBuilder

- **Instead of a template, customize with themes and widgets**
  - **Layer list**
  - **Filter**
  - **Swipe**
  - **Summary**
  - **Time Slider**



Available with Organization subscription
Customize with HTML/JavaScript through Web AppBuilder for ArcGIS (Developer Edition)

Monitor with Dashboards

link

Available with Organization subscription
Gain insight from the map at a glance

Extending mapmaking

- **Update data of existing maps to display recent or current status**

- **Use permissions to control who can or cannot access the map**

- **Consider display on screens of all sizes (phones, tablets, etc.)**
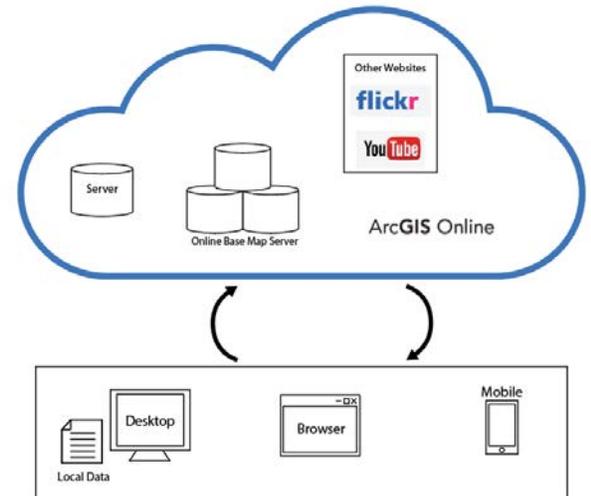
Map design process

- Design is shaped by multiple factors

- This process is a means of coordinating all elements of your map work to effectively convey information

- Goal is to help the map reader make proper use of the map to capture the message(s)
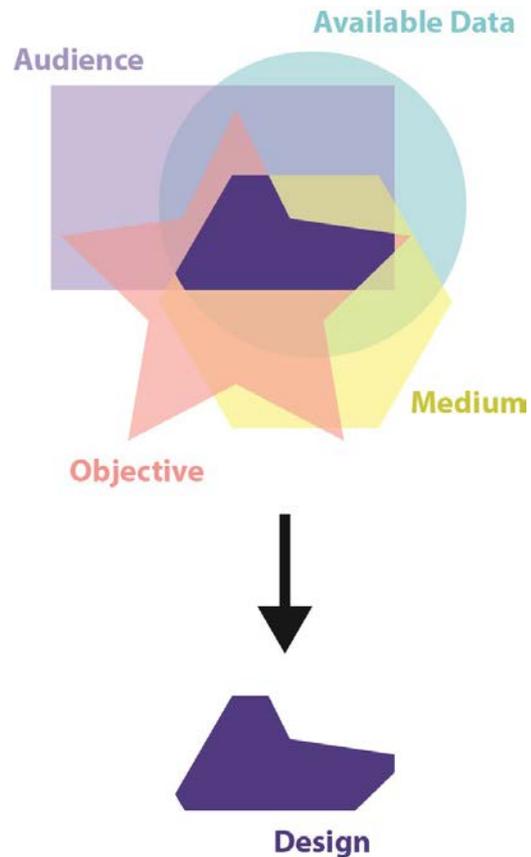
Map objectives: GIS processes end with the communication of results
The Map design process helps to ensure that our maps say what we want them to…
Let's use the elements of: Objective(s); Audience; and Medium to critically review a series of maps now…