

Chapter 1: Your First Mapping Application

DeLorme, HERE, UNEP-WCMC, USGS, NASA, ESA, METI, NRC.

U.S. Census for 2000

Click on the map to view census data for the state, census tract, and block.



The image contains three map thumbnails. The top-left thumbnail shows the state of Alaska with the label 'ALASKA'. The middle thumbnail shows a topographic view of the Arctic region with labels 'Sea' and 'ARCTIC'. The bottom-right thumbnail shows Greenland with labels 'GREENLAND (KALAALLI) DENMARK' and 'Baffin Bay'.



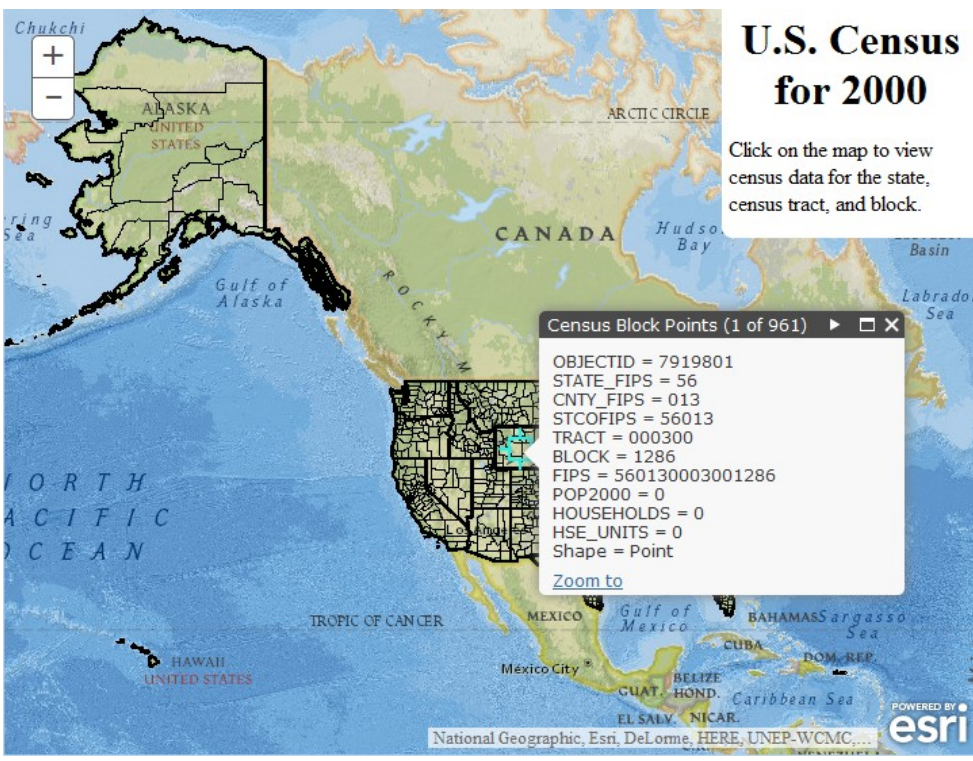
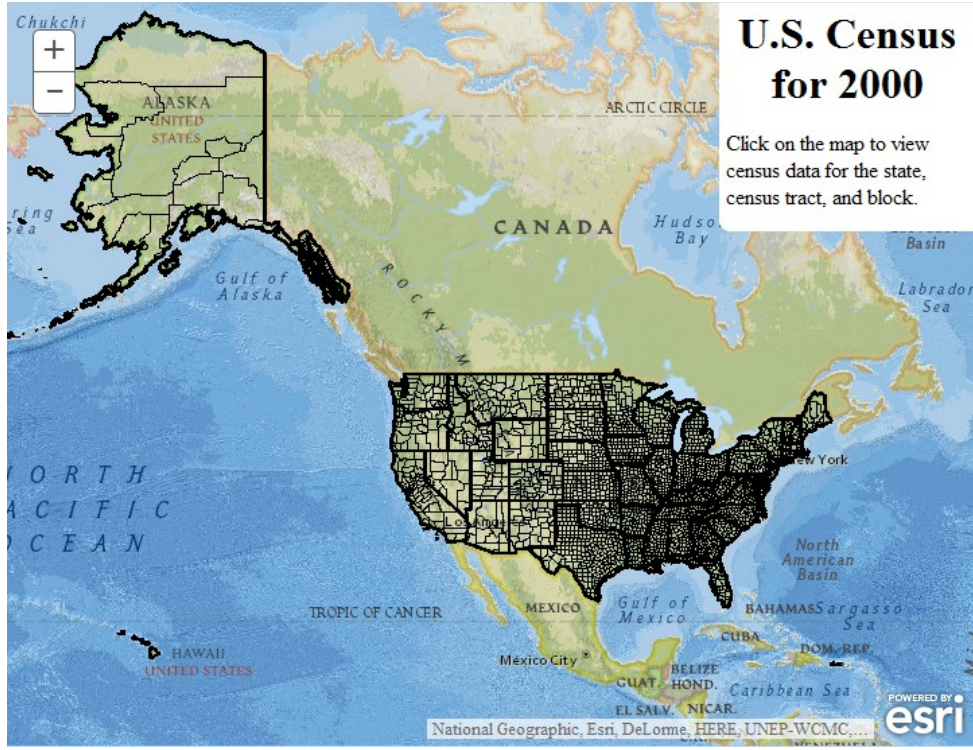
Map showing the United States and surrounding regions, including Canada, Mexico, and the Caribbean Sea. Key geographical features like the Rocky Mountains, Great Plains, and Tropic of Cancer are labeled. Major cities like Los Angeles, Chicago, and New York are marked. The map includes a zoom control (+/-) in the top left corner.

U.S. Census for 2000

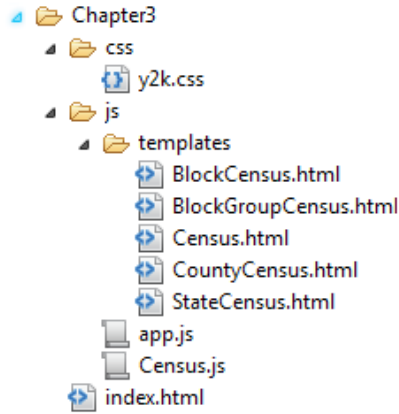
Click on the map to view census data for the state, census tract, and block.

POWERED BY **esri**

National Geographic, Esri, DeLorme, HERE, UNEP-WCMC,...



Chapter 3: The Dojo Widget System



I am on the top.			I am on the left.	I am on the top.	I am on the right.
I am on the left.	I am in the middle (center).	I am on the right.		I am in the middle (center).	
I am on the bottom.				I am on the bottom.	

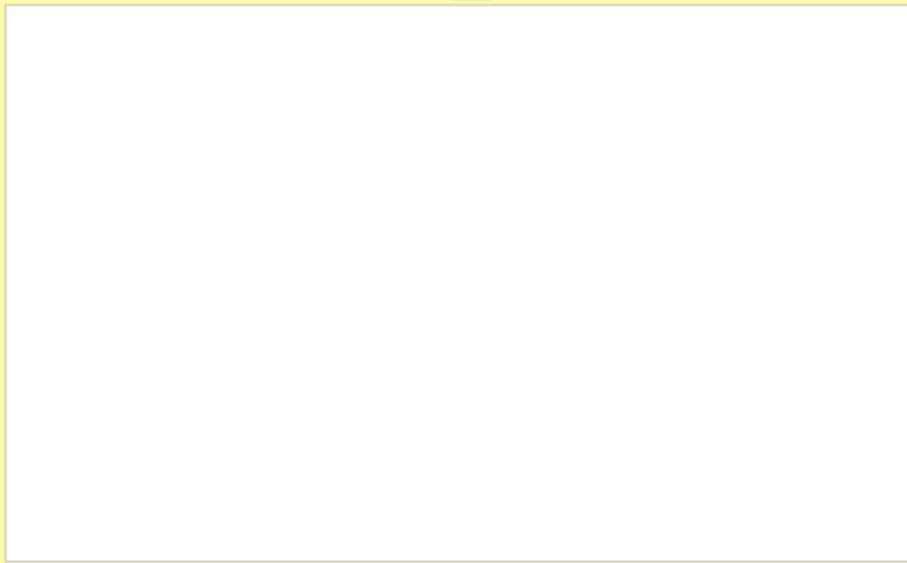
Year 2000 Map

Census

Courtesy of the Y2K Society

Year 2000 Map

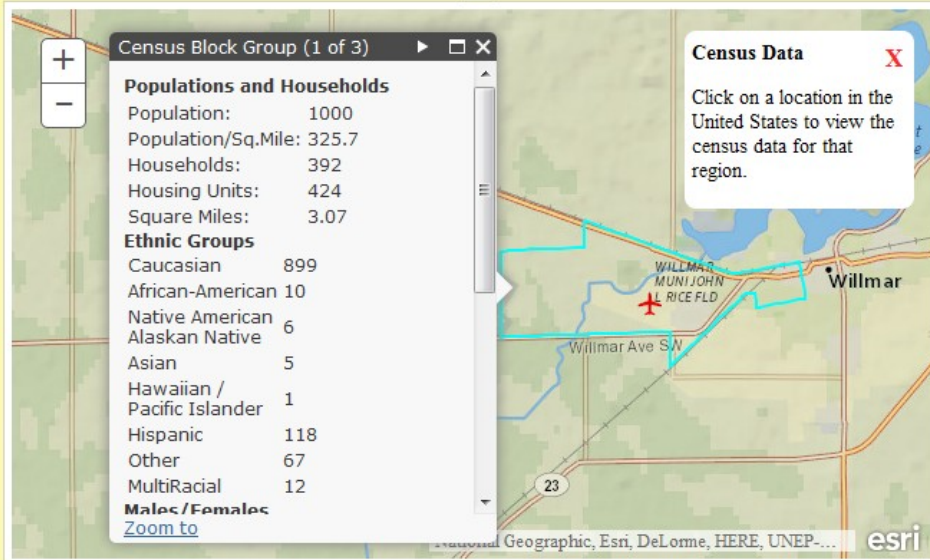
Census



Courtesy of the Y2K Society

Year 2000 Map

Census



Courtesy of the Y2K Society

Chapter 4: Finding Peace in REST

ArcGIS REST Services Directory

[Home](#) > [services](#)

[JSON](#) | [SOAP](#)

Folder: /

Current Version: 10.21

View Footprints In: [ArcGIS.com Map](#)

Folders:

- [Elevation](#)
- [Energy](#)
- [LocalGovernment](#)
- [Locators](#)
- [NetworkAnalysis](#)
- [Sync](#)
- [Utilities](#)

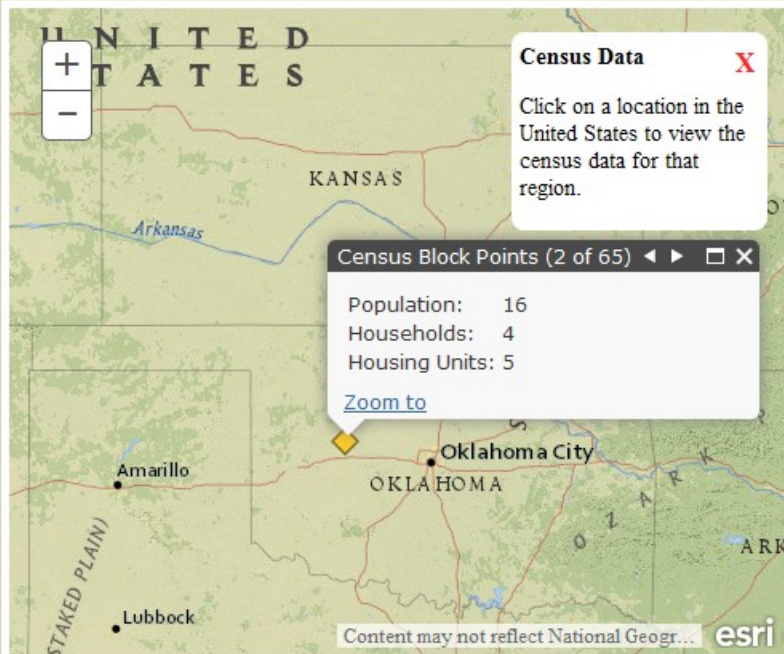
Services:

- [911CallsHotspot](#) (GPServer)
- [911CallsHotspot](#) (MapServer)
- [Census](#) (MapServer)
- [CharlotteLAS](#) (ImageServer)
- [CommercialDamageAssessment](#) (FeatureServer)
- [CommercialDamageAssessment](#) (MapServer)

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{
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  "folders": [
    "Elevation",
    "Energy",
    "LocalGovernment",
    "Locators",
    "NetworkAnalysis",
    "Sync",
    "Utilities"
  ],
  "services": [
    {
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      "type": "GPSTypeServer"
    },
    {
      "name": "911CallsHotspot",
      "type": "MapServer"
    },
    {
      "name": "Census",
      "type": "MapServer"
    },
    {
      "name": "CharlotteLAS",
      "type": "ImageServer"
    },
    {
      "name": "CommercialDamageAssessment",
      "type": "FeatureServer"
    },
    {
      "name": "CommercialDamageAssessment",
      "type": "MapServer"
    }
  ]
}
```

Year 2000 Map

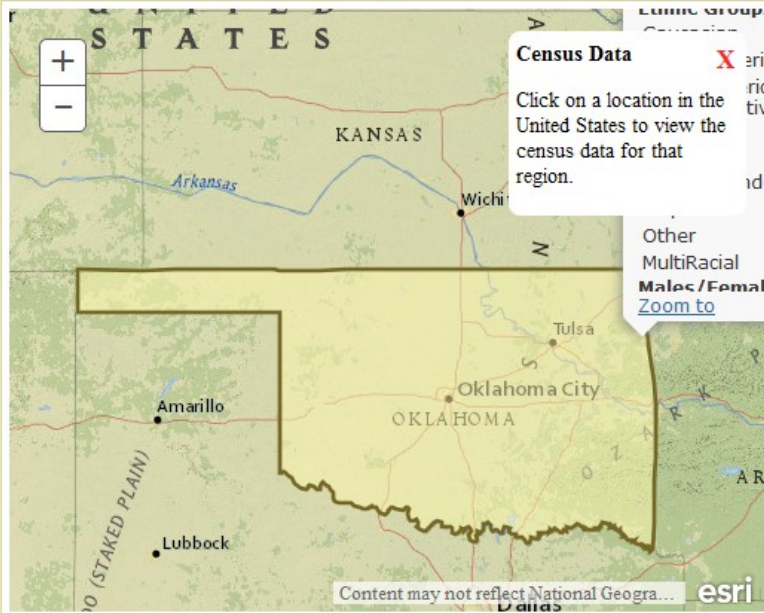
Census



Courtesy of the Y2K Society

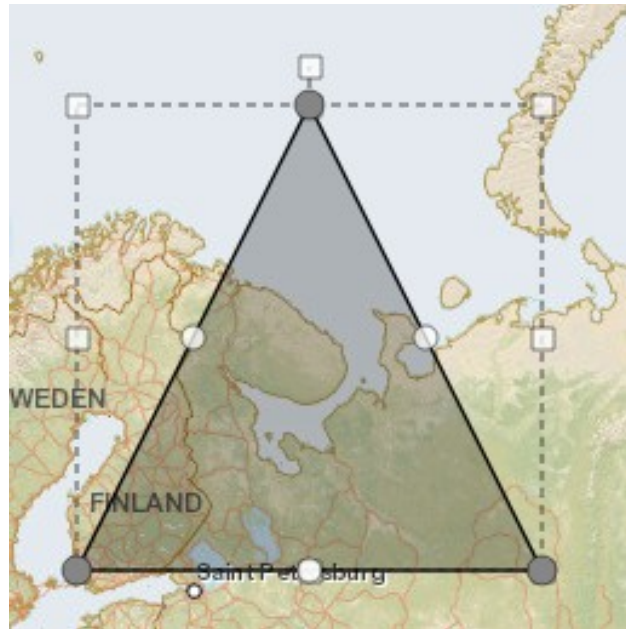
Year 2000 Map

Census



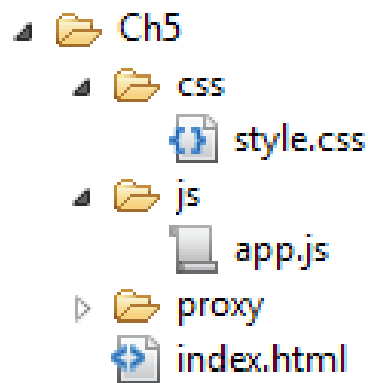
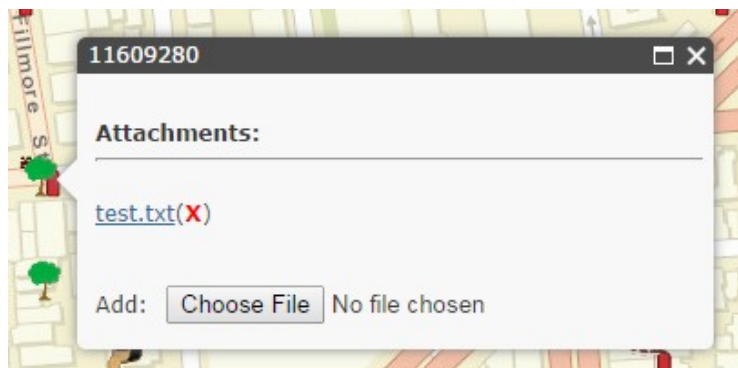
Courtesy of the Y2K Society

Chapter 5: Editing Map Data





Waterbodies [Close] [Maximize]


FDate	<input type="text"/>
Resolution	Local
GNIS ID	<input type="text"/>
GNIS Name	<input type="text"/>
Area Square Km	<input type="text"/>
Elevation	900
Reach Code	<input type="text"/>
FType	390
FCode	Lake - Intermittent





Incident Reporting App


- 

Blocked Street or Sidewalk
- 

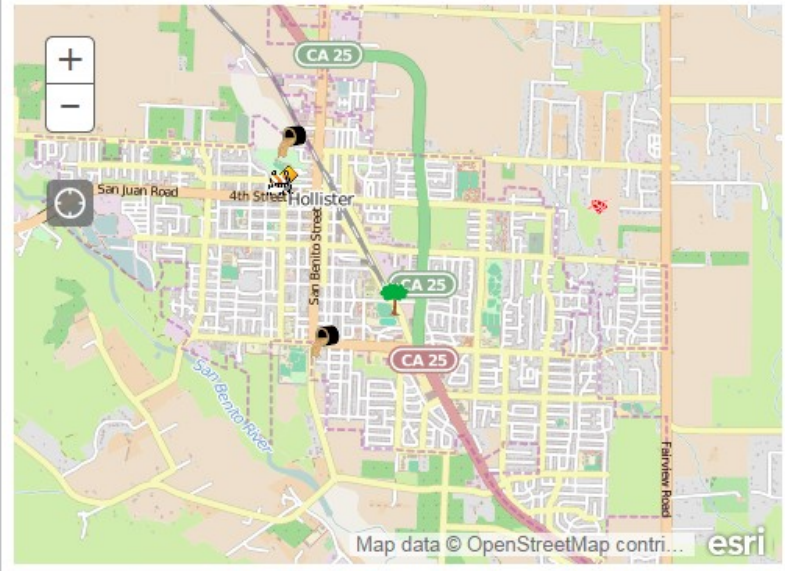
Damaged Property
- 

Graffiti Complaint
- 


Sewer Issues
- 


Tree Maintenance or Damage
- 


Sidewalk and Curb Issues





Incident Reporting App


- 

Graffiti Complaint
- 


Blocked Street or Sidewalk
- 

Damaged Property
- 

Graffiti Complaint
- 

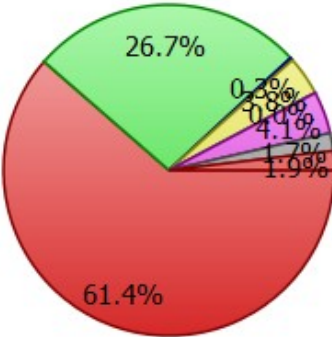
Sewer Issues
- 

Tree Maintenance or Damage

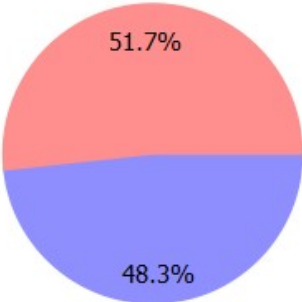


Chapter 6: Charting Your Progress

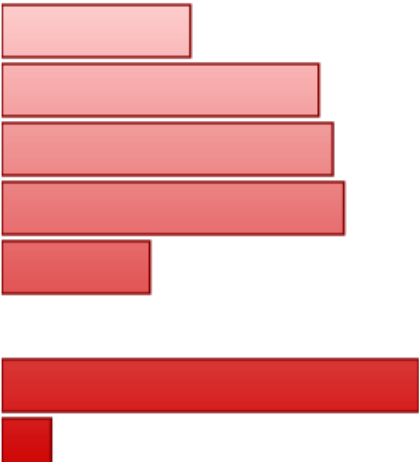
Ethnic Groups



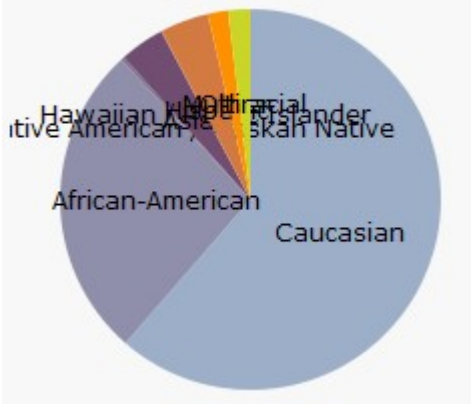
Males/Females



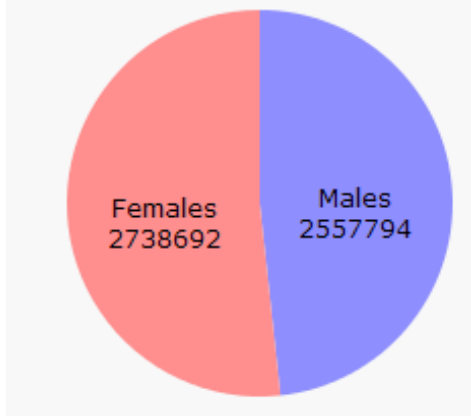
Ages



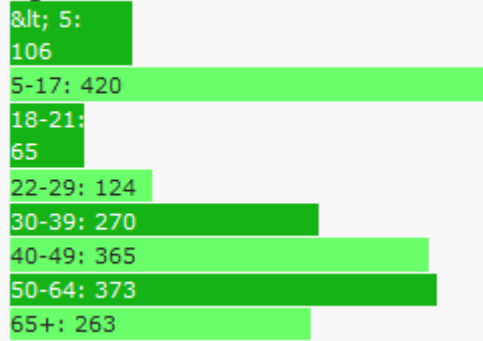
Ethnic Groups



Males/Females



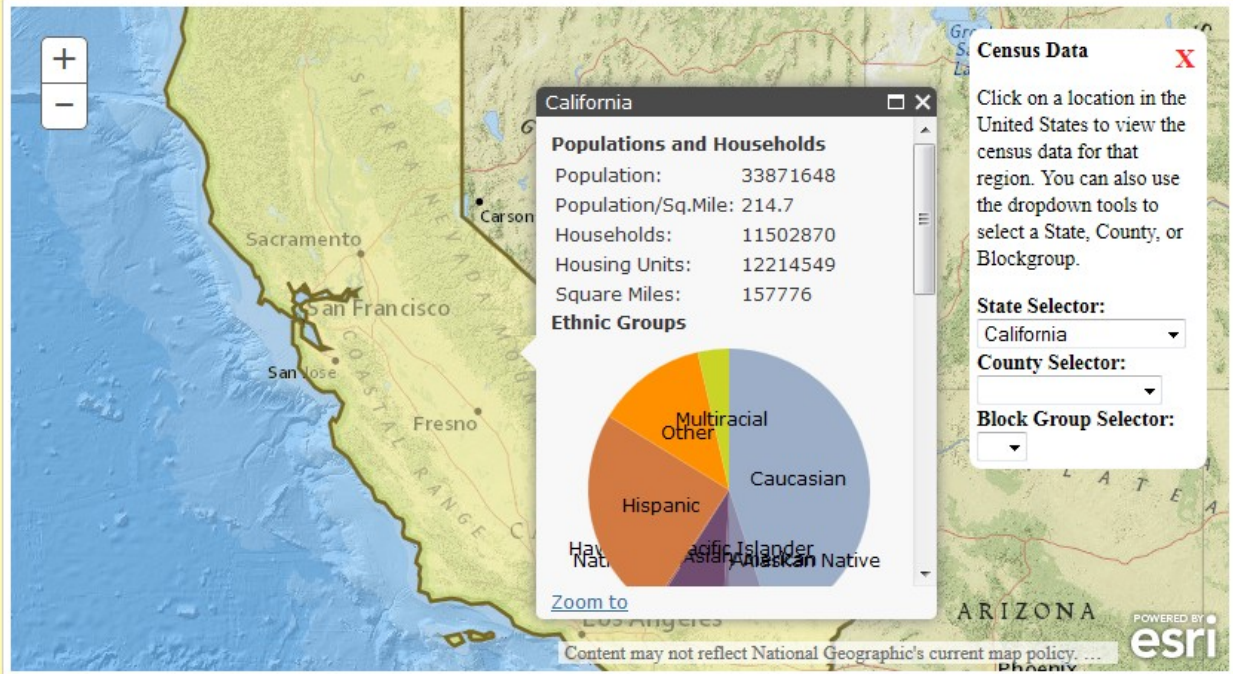
Ages



Chapter 7: Plays Well with Others

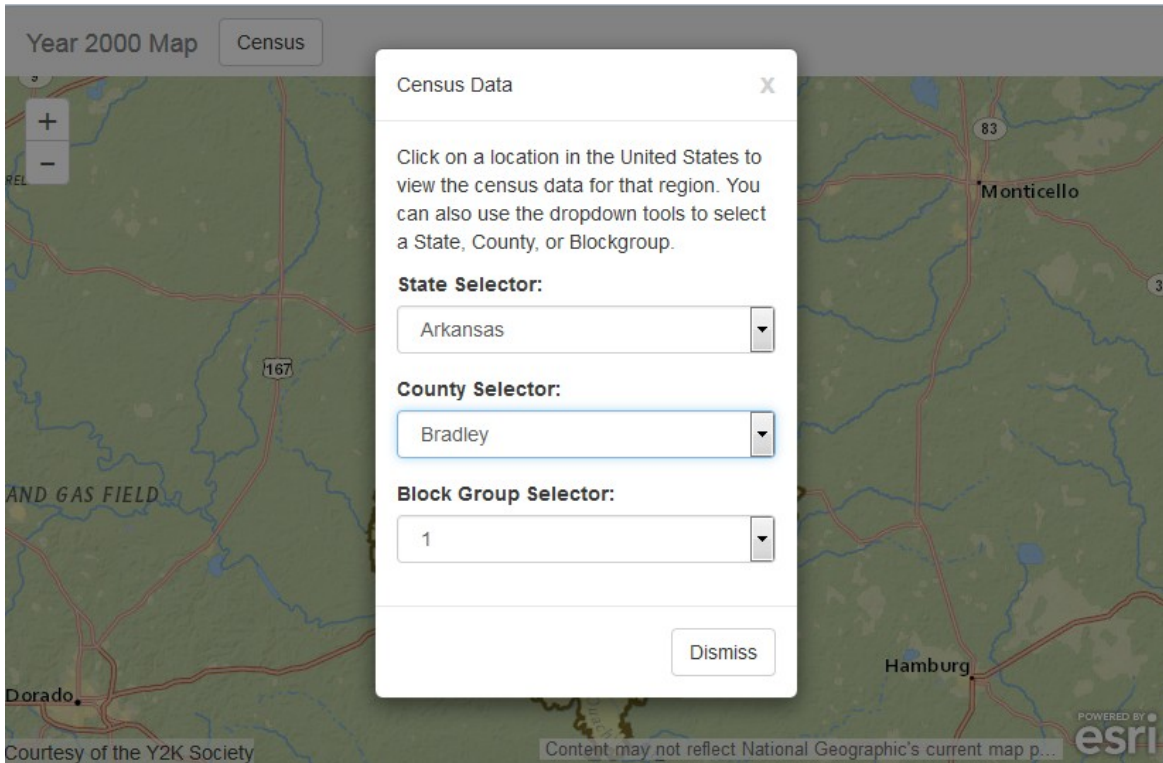
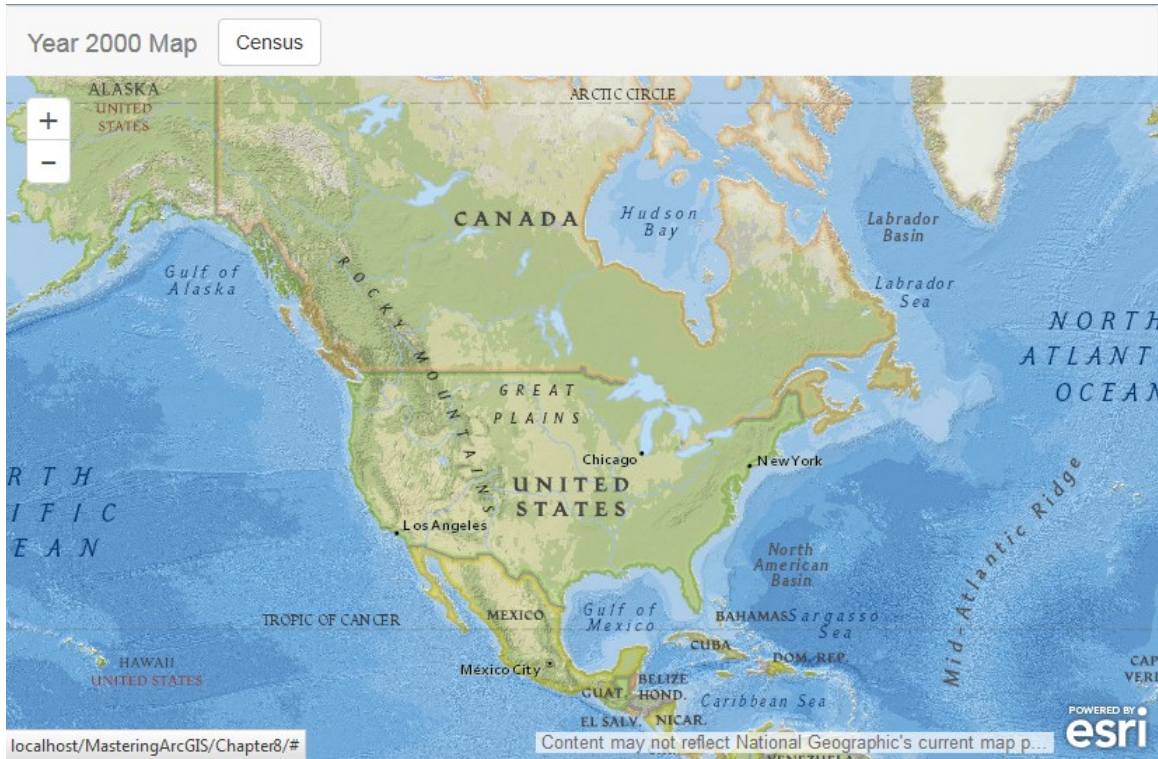
Year 2000 Map

Census

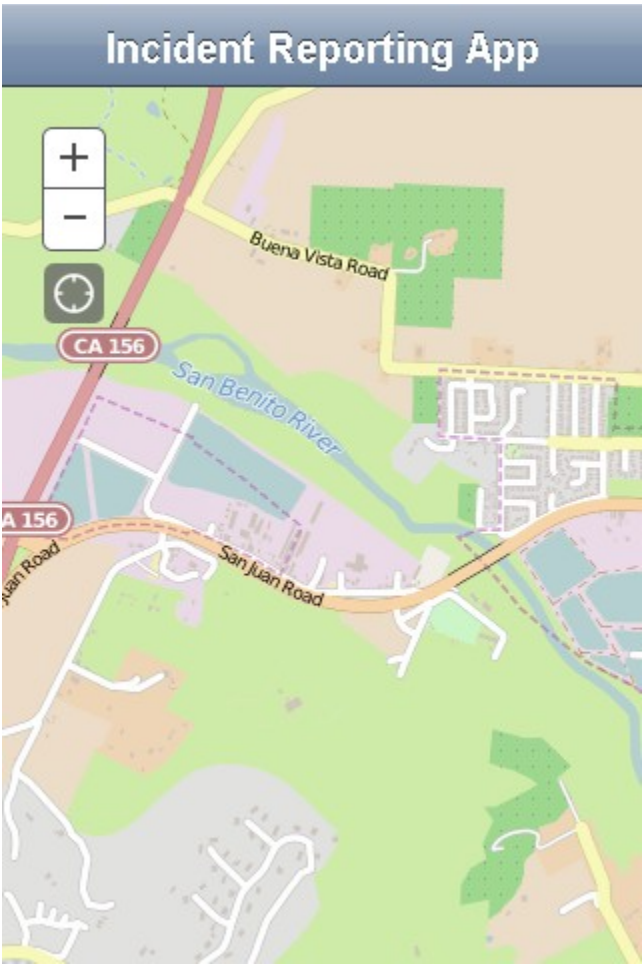


Courtesy of the Y2K Society

Chapter 8: Styling Your Map



Chapter 9: Mobile Development



Map

Incident



Graffiti
Complaint



Blocked
Street or
Sidewalk



Damaged
Property



Graffiti
Complaint



Sewer
Issues



Tree
Maintenanc
e or
Damage



Sidewalk
and Curb
Issues

Incident

Description

Incidents

Status:	▼
	X
	Blocked Street or Sidewa
Date:	X
	8/17/2015
Time:	X
Address:	X
District:	X
Status:	▼
	X
	New

Attachments:

None

Incident

Description

Request Type:

Date: 4/7/2015

Time: 1:20:32 AM

Address:

District:

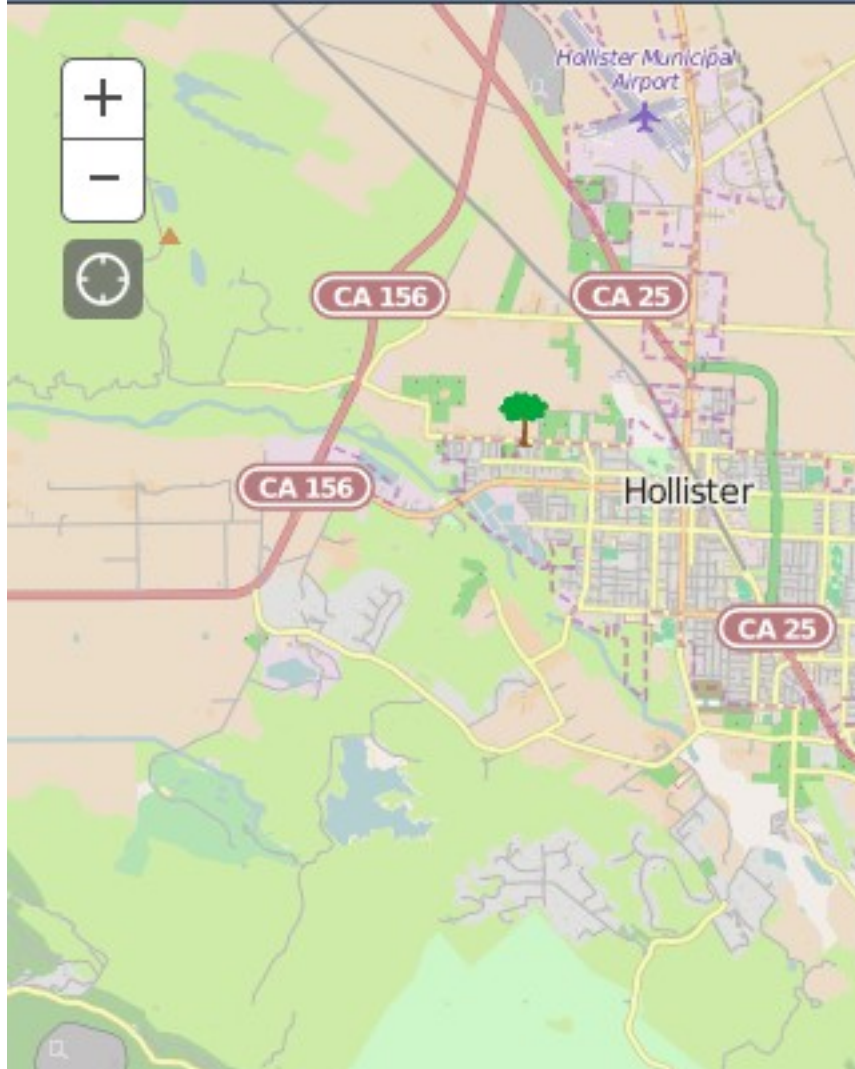
Status: 1

Attachments:

[ESRI.gif](#)(X)

Add: No file selected.

Incident Reporting App



Chapter 10: Testing

```
project_root/  
  dist/          - (optional) Built code; mirrors the `src` directory  
  node_modules/ - Node.js dependencies, including Intern  
  intern/  
  src/          - Front-end source code (+ browser dependencies)  
  app/          - Your application code  
  index.html    - Your application entry point  
  tests/  
    functional/ - Functional tests  
    support/    - Test support files  
                (custom interfaces, reporters, mocks, etc.)  
  unit/        - Unit tests  
  intern.js     - Intern configuration
```

Jasmine 1.3.1 revision 1354556913

finished in 1.417s

.....
.....

Passing 53 specs

No try/catch

A suite
 contains spec with an expectation

A suite is just a function
 and so is a spec

The 'toBe' matcher compares with ===
 and has a positive case
 and can have a negative case

Included matchers:
 The 'toBe' matcher compares with ===

The 'toEqual' matcher
 works for simple literals and variables
 should work for objects

The 'toMatch' matcher is for regular expressions

The 'toBeDefined' matcher compares against `undefined`

The `toBeUndefined` matcher compares against `undefined`

The 'toBeNull' matcher compares against null

The 'toBeTruthy' matcher is for boolean casting testing

The 'toBeFalsy' matcher is for boolean casting testing

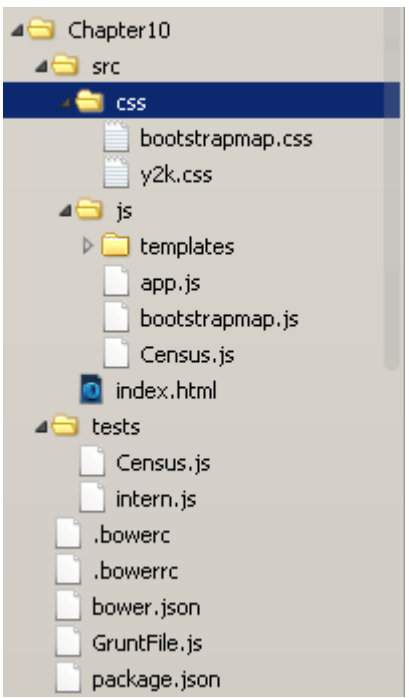
The 'toContain' matcher is for finding an item in an Array

The 'toBeLessThan' matcher is for mathematical comparisons






The 'toBeGreaterThan' is for mathematical comparisons





The 'toBeCloseTo' matcher is for precision math comparison

The 'toThrow' matcher is for testing if a function throws an exception

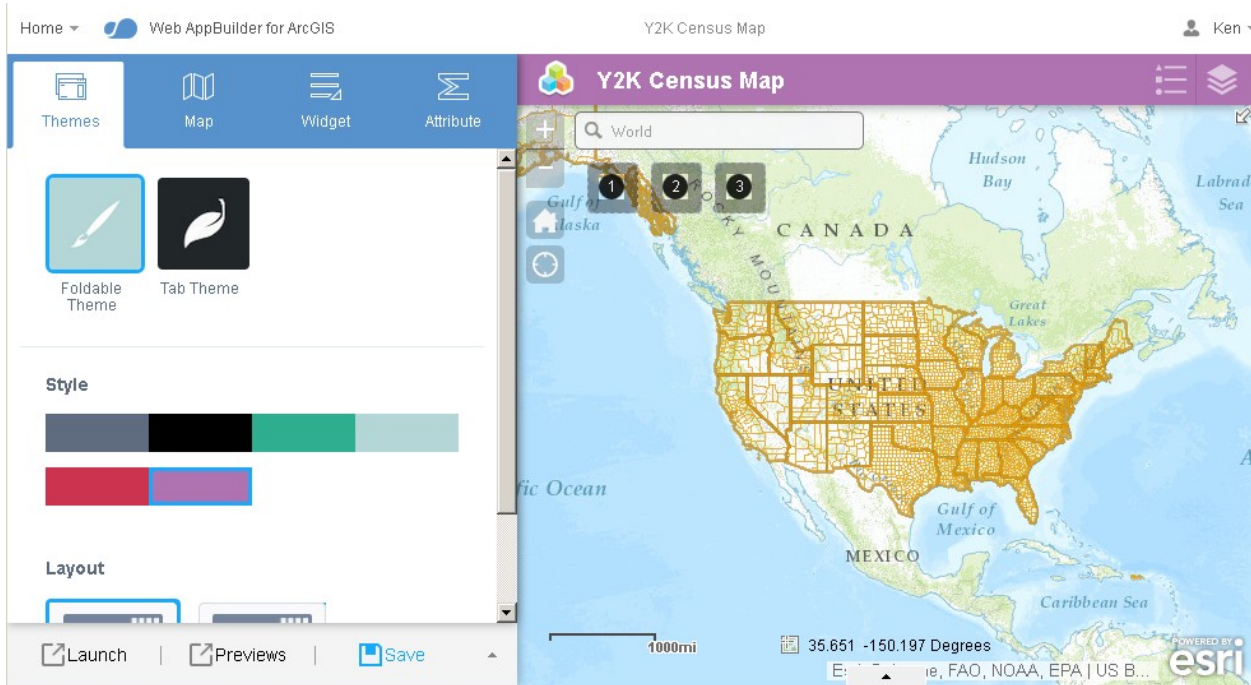
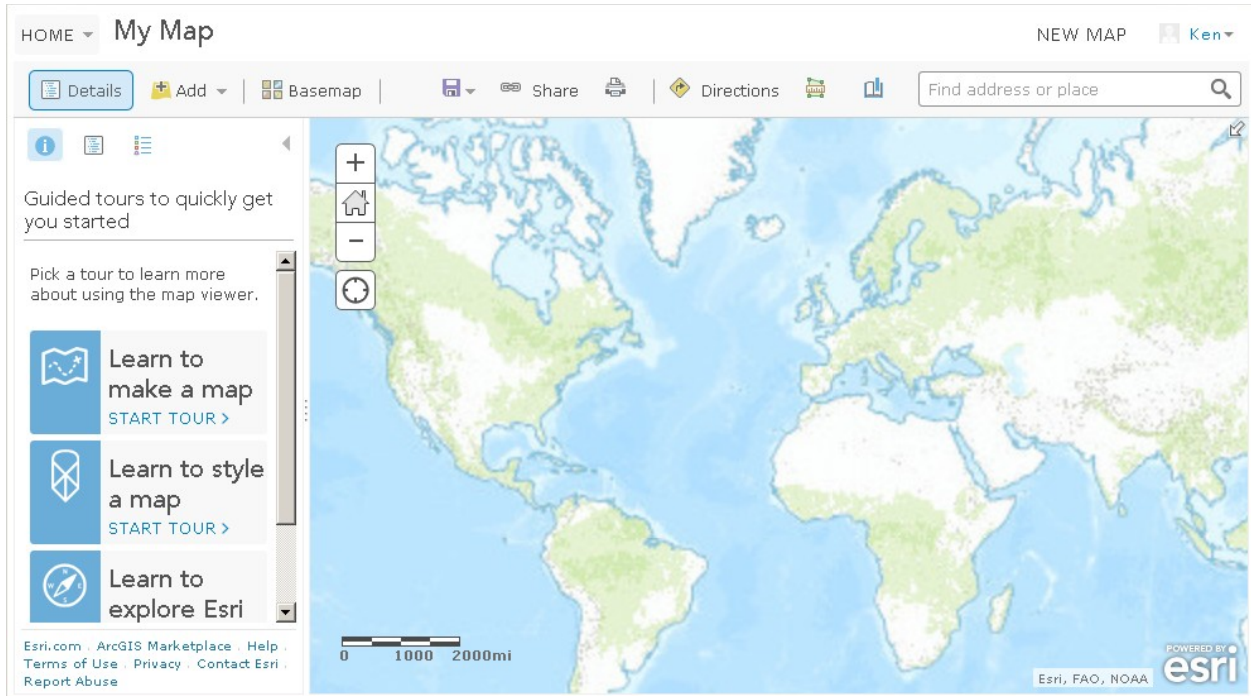


Intern Test Report

 SUITES 1	 TESTS 3	 DURATION 0:00.145	 FAILED 0	 SUCCESS RATE 100%
--	---	---	--	---

	Test Name	Status	Duration
	Create a Census Widget	Passed: 3 / 3	0:00.123
	Test Census widget creation		0:00.001
	Test Census query for dropdown data		0:00.011
	Test Census Graphing Attributes		0:00.001

Chapter 11: The Future of ArcGIS Development



Save Map ✕

Title:











Tags:

Summary:

Save in folder:

Basemap | Save | Share

Select a basemap ✕

		
Dark Gray Canvas	Imagery	Imagery with Labels
		
Light Gray Canvas	National Geographic	Oceans
		
OpenStreetMap	Streets	Terrain with Labels
		
Topographic	USA Topo Maps	USGS National Map

Contents

- Topographic ▾

Add Layer from Web

What type of data are you referencing?

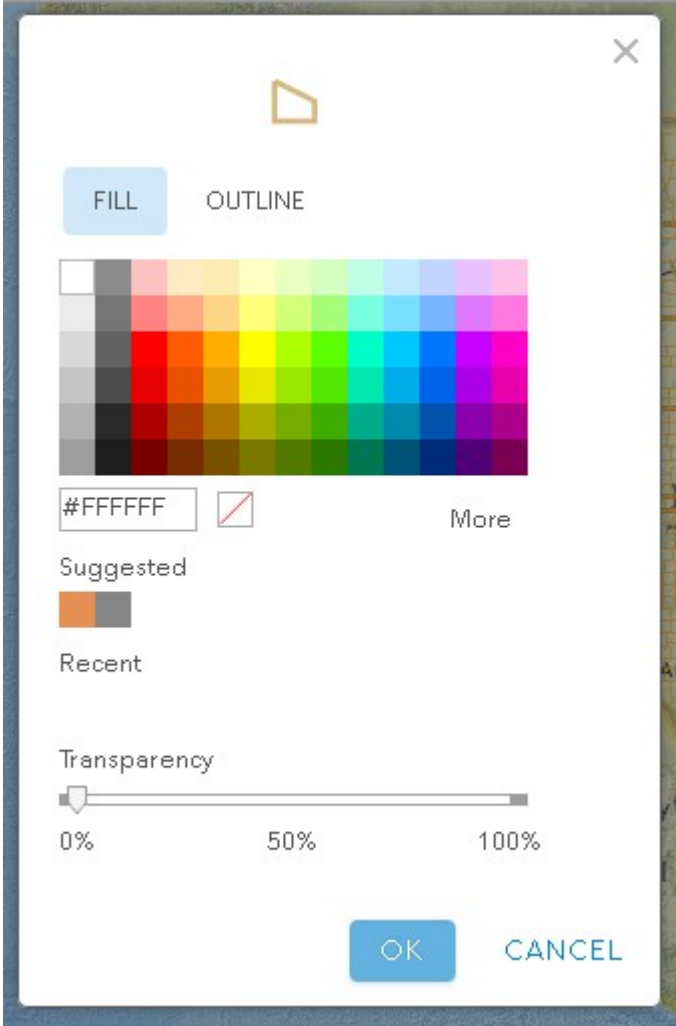
An ArcGIS Server Web Service ▾

URL:

Use as Basemap

ADD LAYER CANCEL





HOME ▾ My Map NEW MAP Ken ▾

Details Add place Q

Configure Pop-up

USA States (General) USA_States_General

Display:

A list of field attributes

These field attributes will c

Abbreviation {STATE_A
Region {SUB_REGION}
Population {POP2012}
Pop. per Sq. Mi. {POP12

Configure Attributes

Pop-up Media

Display images and charts

SAVE POP-UP CANCEL

Configure Attributes ✕

Check the fields you want to display. Select a field to change its alias, order it, and format it.

<input type="checkbox"/>	Display	Field Name	Field Alias
<input type="checkbox"/>		{STATE_NAME}	STATE_NAME
<input type="checkbox"/>		{STATE_ABBR}	Abbreviation
<input checked="" type="checkbox"/>		{SUB_REGION}	Region
<input type="checkbox"/>		{POP2010}	POP2010
<input type="checkbox"/>		{POP10_SQMI}	POP10_SQMI
<input checked="" type="checkbox"/>		{POP2012}	Population
<input checked="" type="checkbox"/>		{POP12_SQMI}	Pop. per Sq. Mi.

Format

Use 1000 Separator

OK
CANCEL

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0 300 600mi MEXICO Gulf of Mexico BAHAMAS Havana Esri, DeLorme, FAO, USGS, NOAA, EPA POWERED BY **esri**

Configure Pie Chart ✕

Specify the title, caption and fields to chart.

Title:

Ethnic Graph +

Caption

Populations in the county organized by ethnicity. +

Chart Fields

<input type="checkbox"/>	Field Alias	Field Name
<input checked="" type="checkbox"/>	WHITE	{WHITE}
<input checked="" type="checkbox"/>	BLACK	{BLACK}
<input checked="" type="checkbox"/>	AMERI_ES	{AMERI_ES}
<input checked="" type="checkbox"/>	ASIAN	{ASIAN}

Normalize by: None ▾

OK
CANCEL

Guatemala

