# Making D3 Maps Interactive

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# Interactivity

Without interaction, our map is as good as a static image

Make use of user input to selectively display data

Show information descriptively and intuitively

# Overview

Reducing the clutter on our existing map
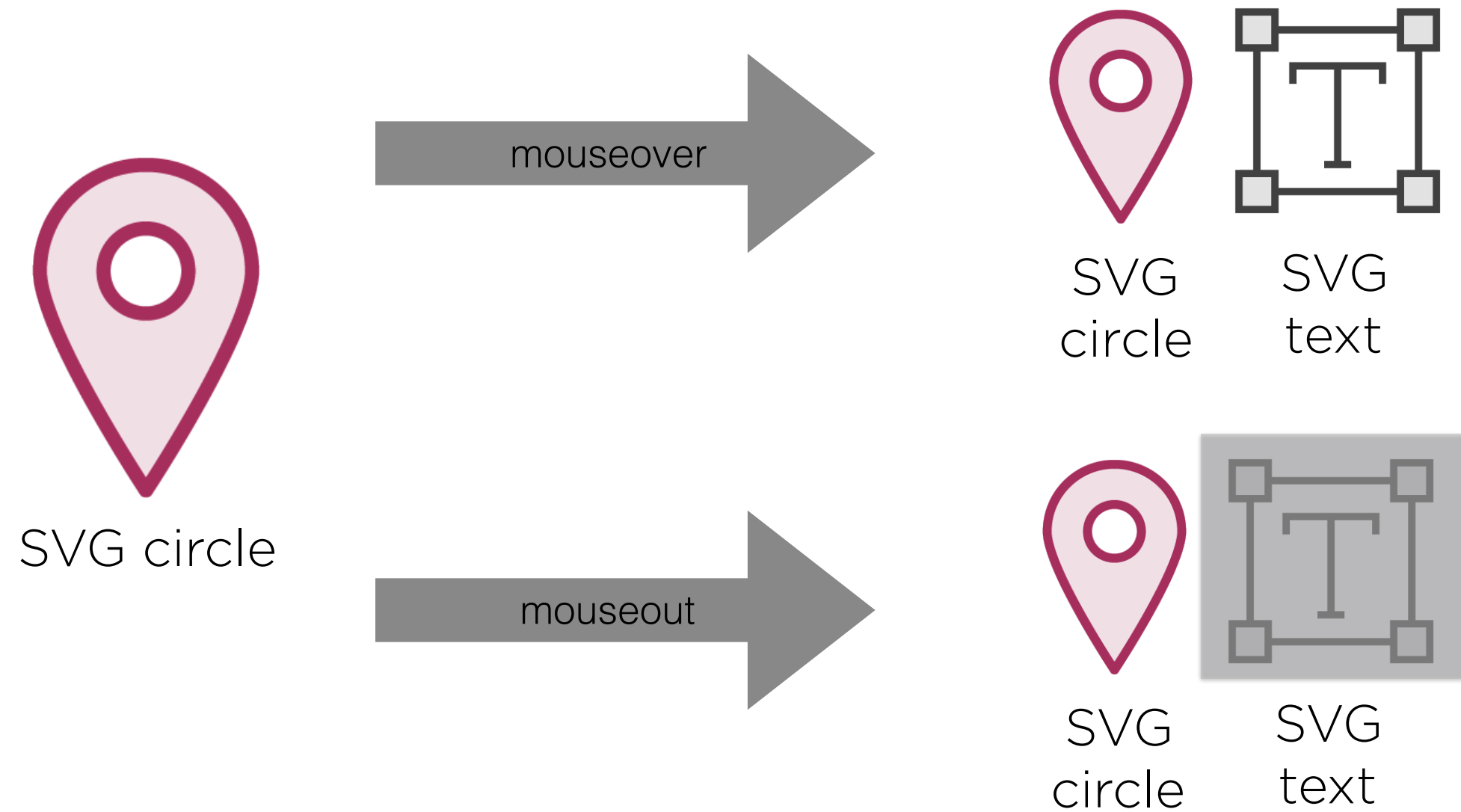
Labelling capital cities on hover

Showing a tooltip for each country

Using HTML form elements to selectively display visualizations

# Cleaning up Our Map

✕ **Labels for capital cities**

✕ **Choropleth**

✕ **Bubble map**

# Adding Labels on Hover

# Demo

**Clean up existing visualizations**

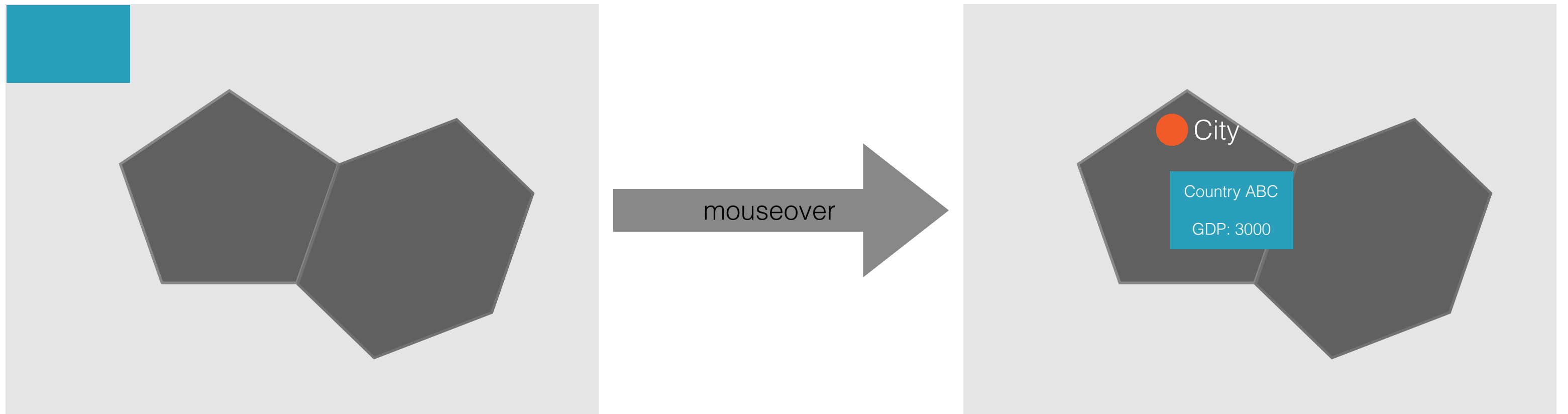**Add hover events to city circle elements**

# Tooltips

Selectively show additional information

Rich tooltips with HTML markup

Showing actual per-capita GDP value
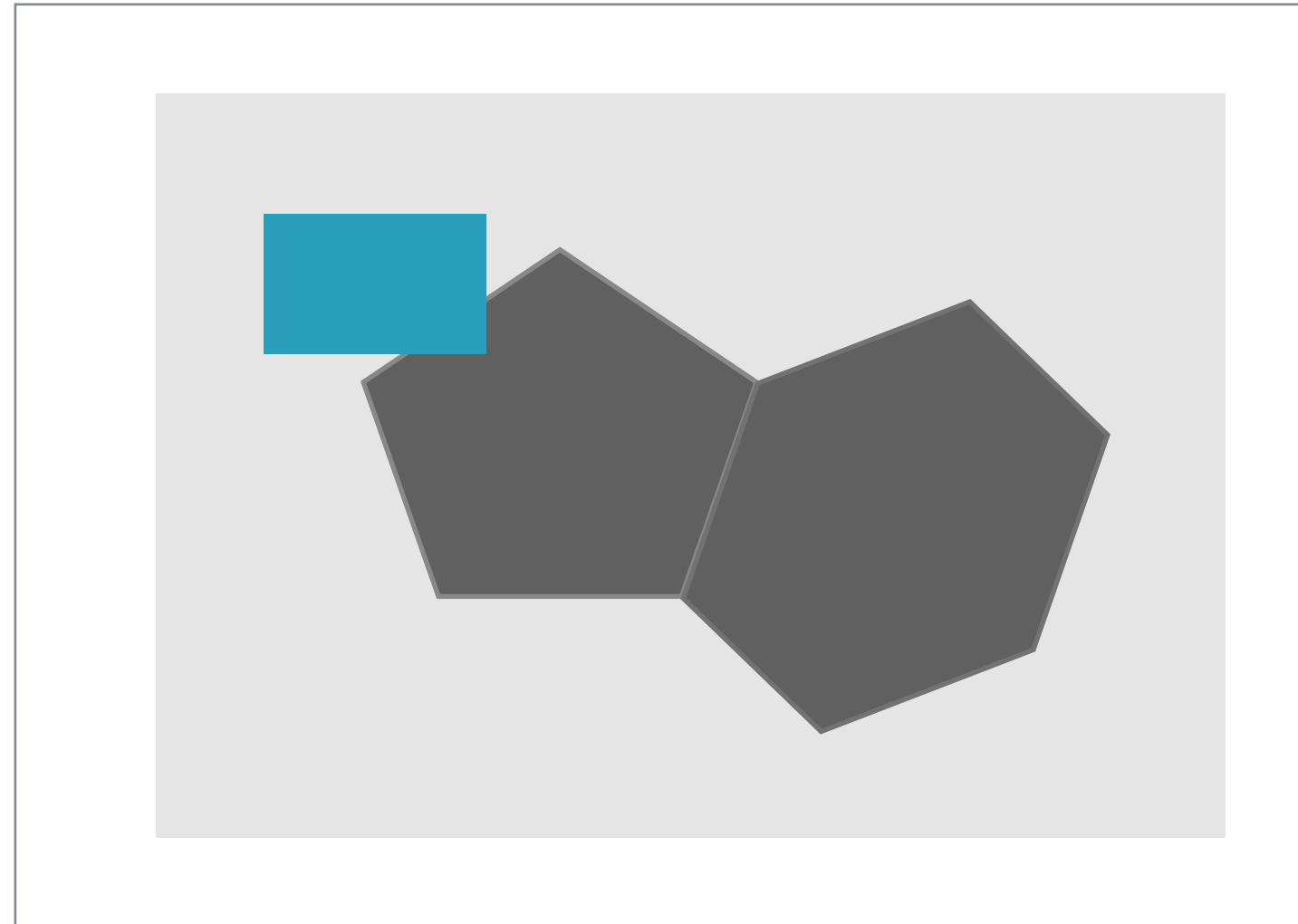
Showing country name

# Drawing Tooltips



mouseover

City

Country ABC

GDP: 3000

## Demo

Display tooltip on hover for each country

Display country name and per-capita GDP

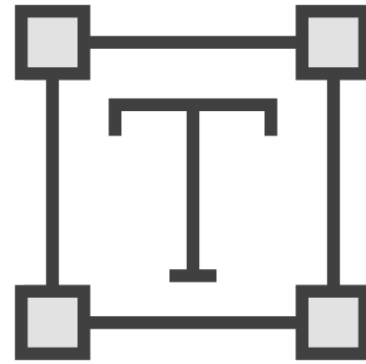Display capital with label

# Tooltip - Relative Position

# Selectively Displaying Cities
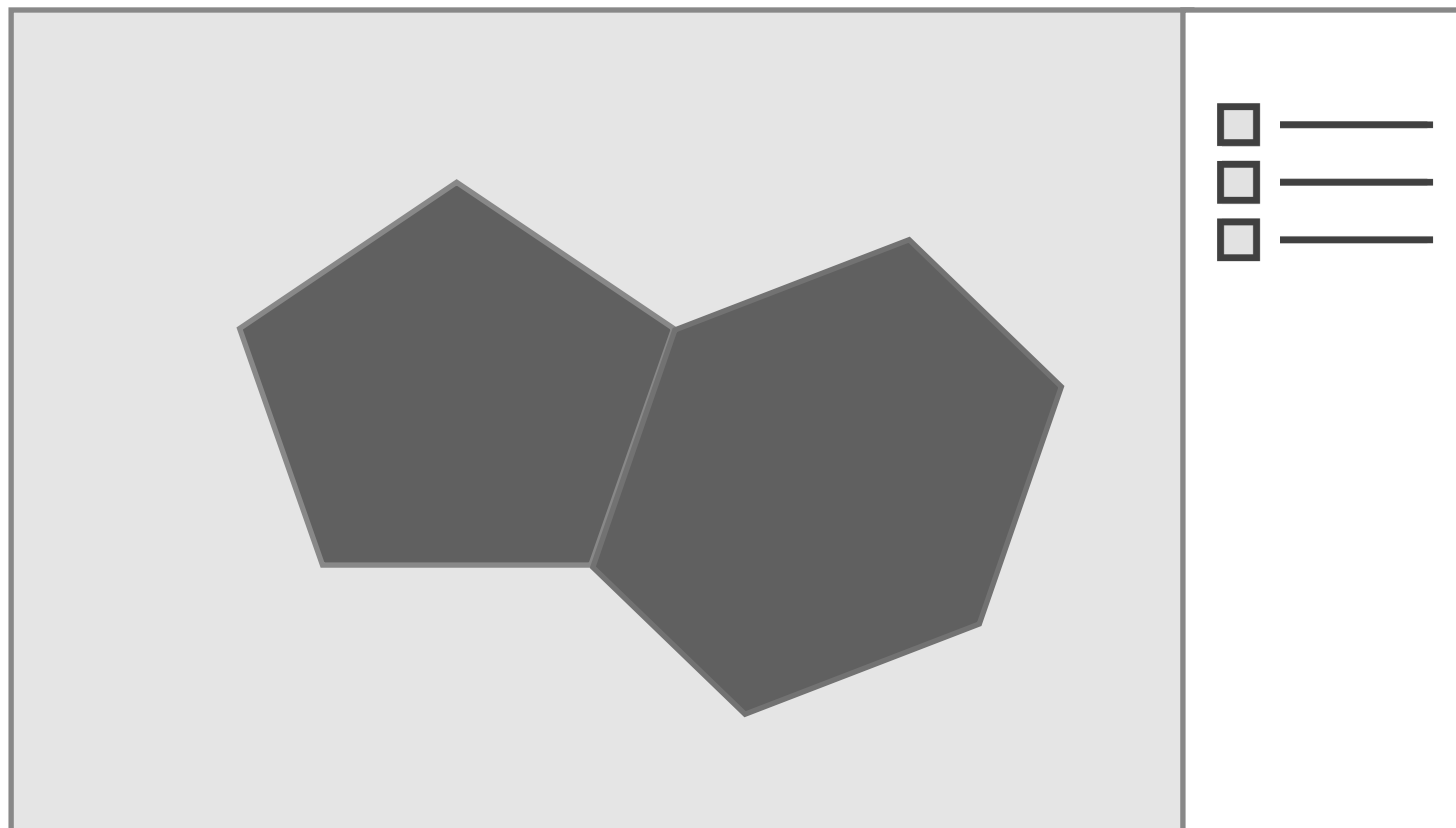


capitalGroup

SVG circle

SVG text

# Selective Visualizations

Display choropleth and bubble map visualizations on demand

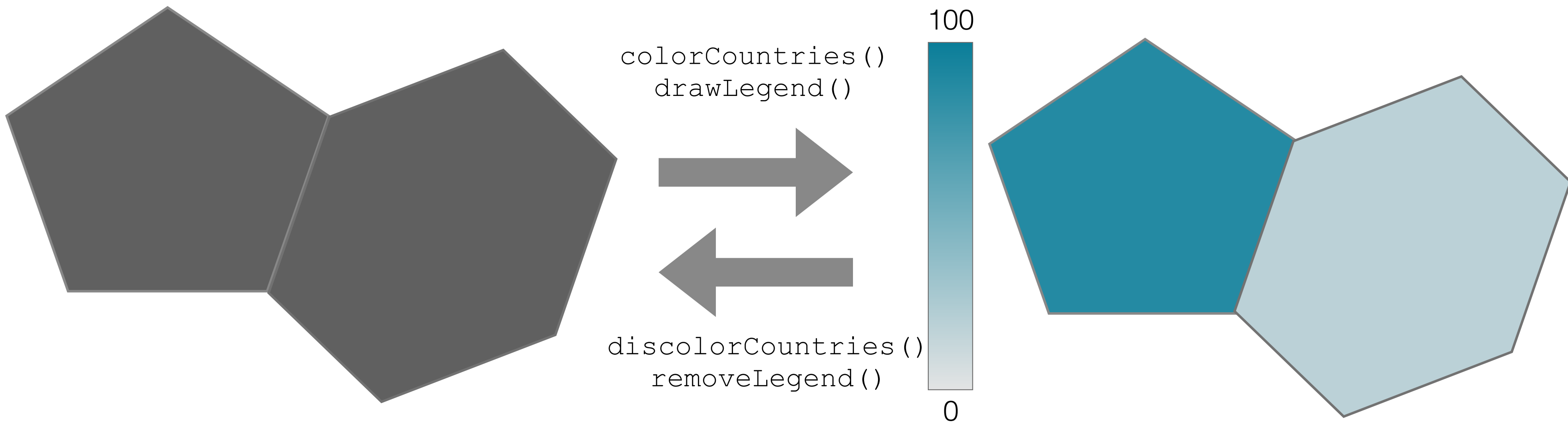Mutually independent

Smooth appearance - using D3 transition

# Control Panel



HTML form elements for user input

Add cleanup methods for reverting to original appearance

# Cleanup Methods

# Demo

Format HTML document to accomodate control panel

Add cleanup methods for existing visualizations

Create event listeners for checkbox elements

# Summary

Selectively display data according to user input

Show additional data with tooltips

Change visualizations with a control panel

Less is more - showing less data overall allows us to show more at a time