

Click Behavior Between Visuals

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Creating control visual

In Cloudera Data Visualization, you can have one (source) visual act as a filter that controls the behavior of the target visual, inside the same application.

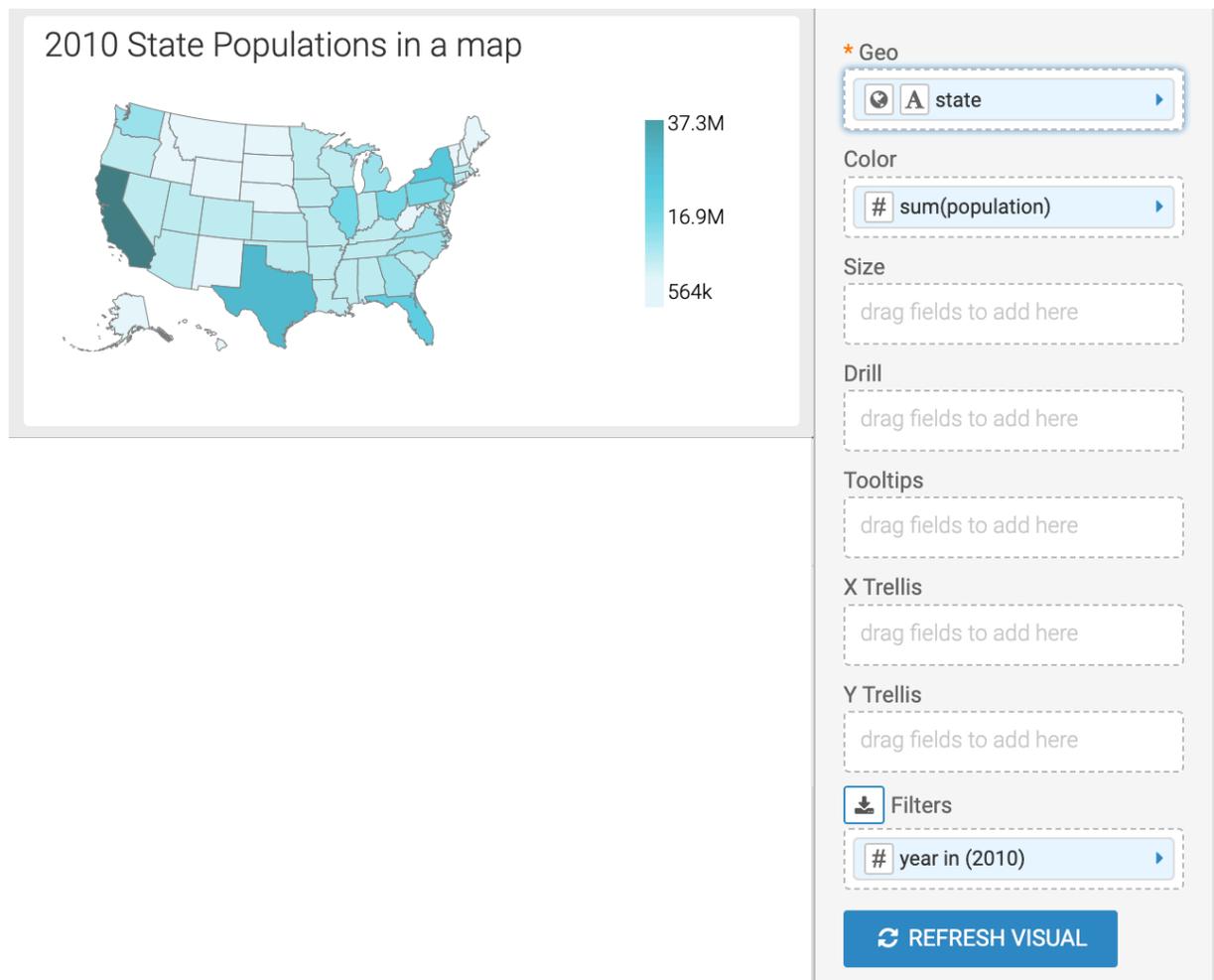
Procedure

1. Create a visual based on the US State Population Over Time dataset.

The specifics for a sample visual follow:

- Dataset: US State Population Over Time
- Visual type: map
- Geo shelf: state field
- Color shelf: population field, as sum(population)
- Filters shelf: year field, as year in (2010)

2. Click REFRESH VISUAL.



3. Name the visual as Control Visual and save it.

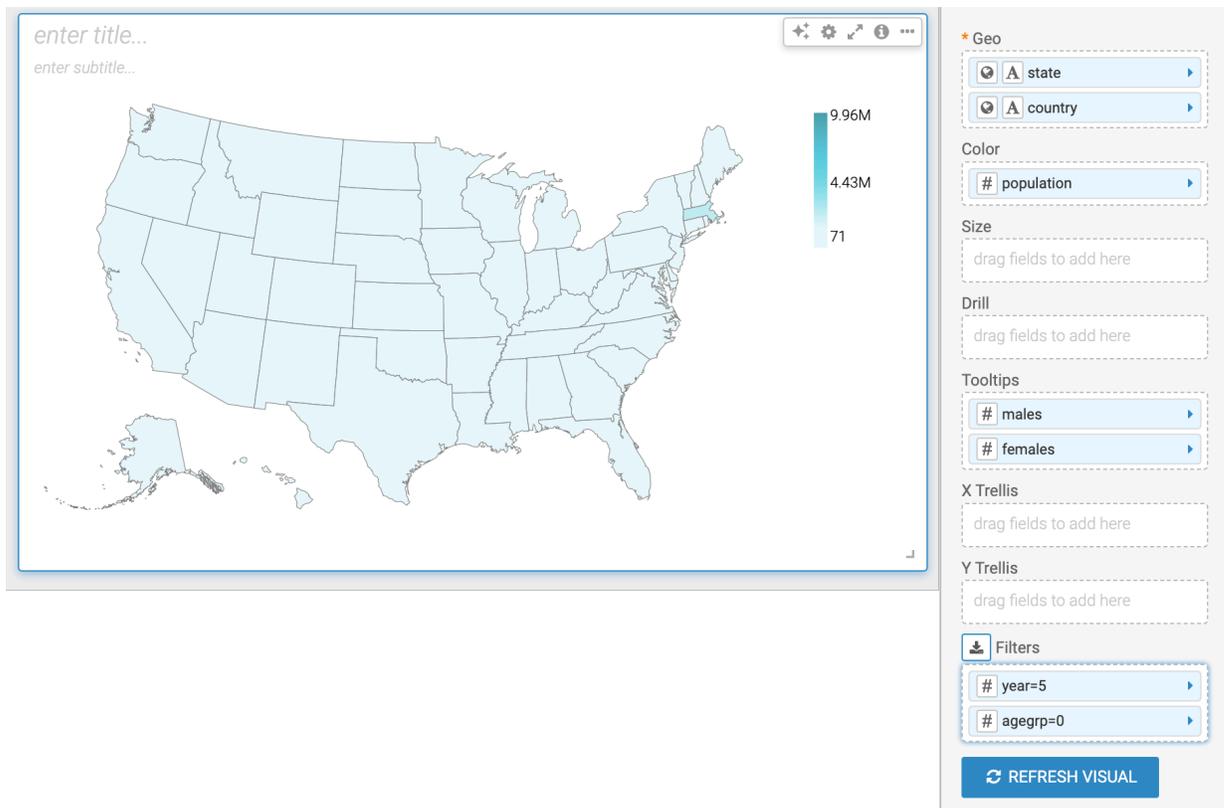
Creating target visual

Procedure

1. Create a visual based on the US County Population dataset.

The specifics for the sample visual follow:

- Dataset: US County Population
 - Visual type: map
 - Geo shelf: sname field, aliased as state, and ctynome field, aliased as country
 - Color shelf: add tot_pop field, then change the expression to `sum([tot_pop])` as 'population'
 - Tooltips shelf: add tot_male field and change the expression to `sum([tot_male])` as 'males', and add tot_female field and change the expression to `sum([tot_female])` as 'females'
 - On the Color and Tooltips shelves, change the Display Format for each field by adding the comma thousands separator.
 - Filters shelf: for the year field, change the expression to `year=5`, and for the agegrp field, change the expression to `agegrp=0`
2. Click REFRESH VISUAL.



3. Name the visual as Target Visual and save it.

Creating application and enabling Click Send

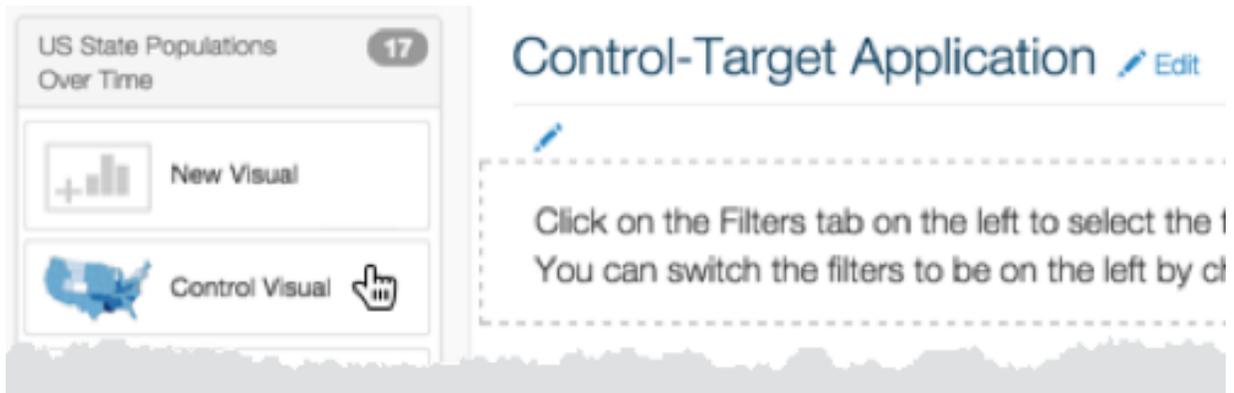
About this task

Follow these steps to create an application for the two visuals, Control Visual and Target Visual.

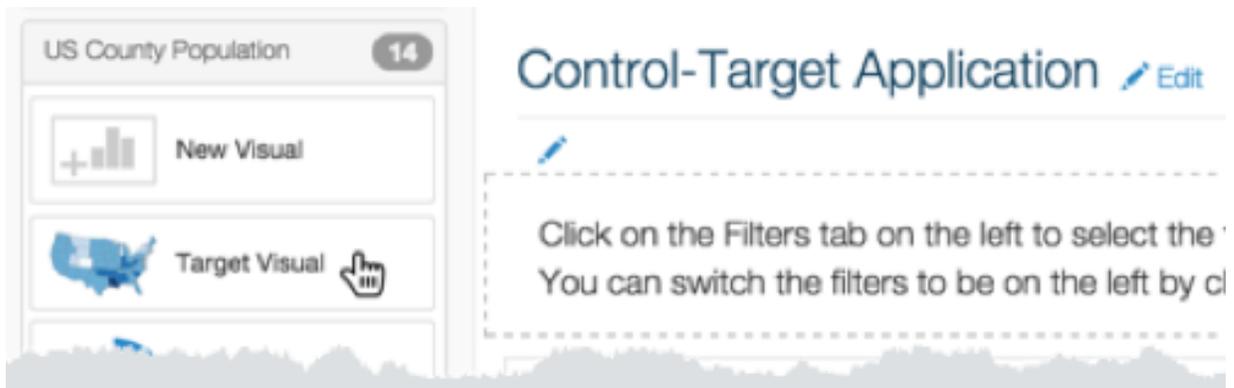
Procedure

1. Click New App and name it Control-Target Application.

2. Select the Visuals tab.
3. Click to expand the US State Populations Over Time grouping, and select Control Visual.



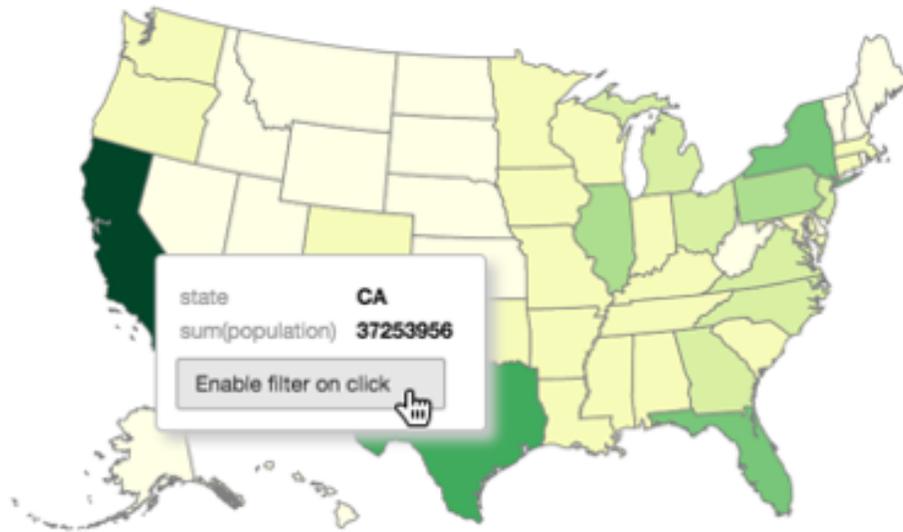
4. Click to expand the US County Population grouping, and select Target Visual.



5. To enable parameter passing between the two visuals (in this case the parameter is state), left-click on one of the states in the Control Visual until the control menu appears.

6. Click Enable filter on click.

Control Visual

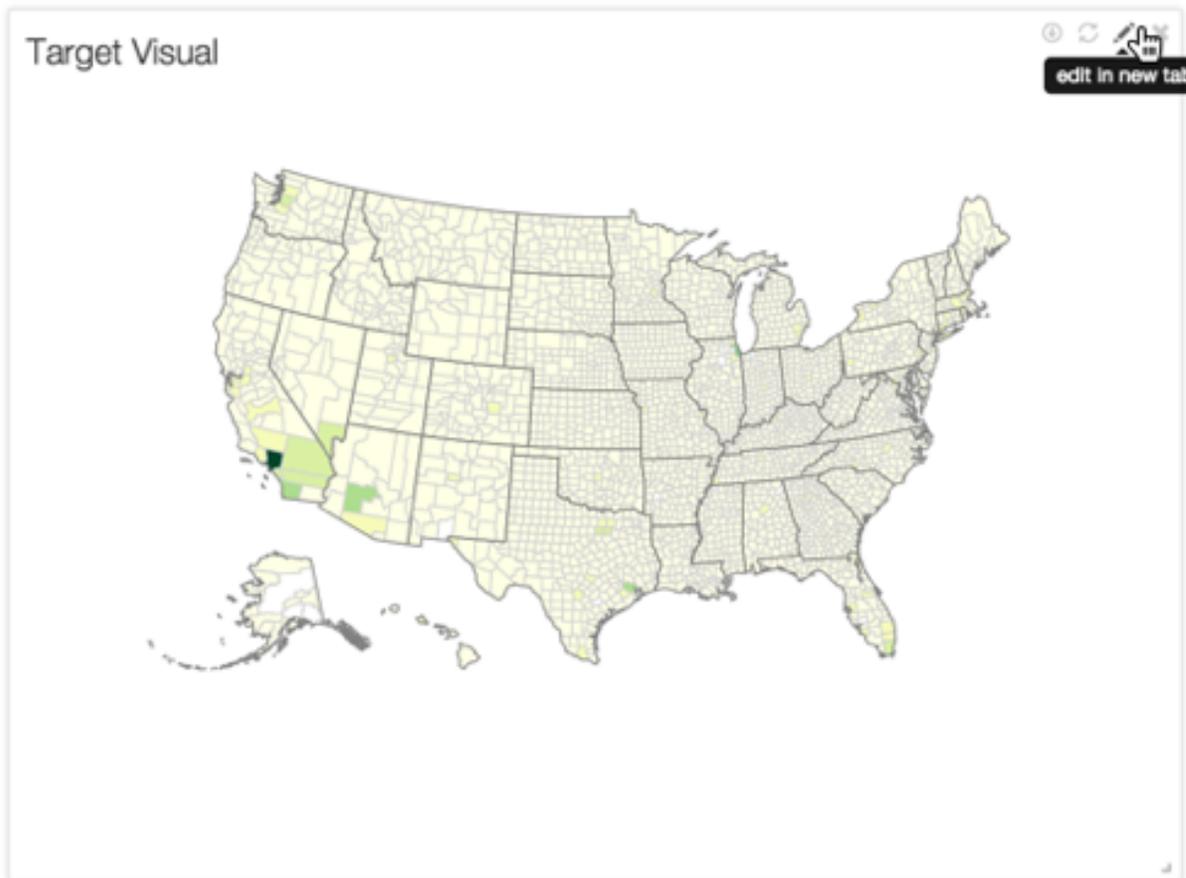


7. Save the app.

Enabling Click Receive on target visual

Procedure

1. Edit the Target Visual.



2. Add the field `state_names state` to the Filters shelf.
3. Edit the expression for the new filter to `[state_names state] = ('<<state>>')`, validate, and save.

X:

Y:

* Geo:

* Measures:

Tooltips:

Filters:

4. Save the visual.

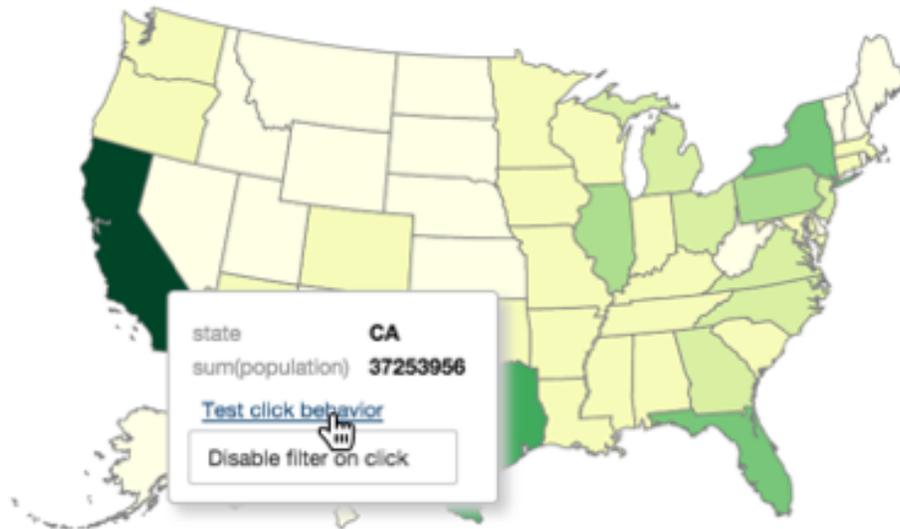
Exploring Click behavior

Before you begin

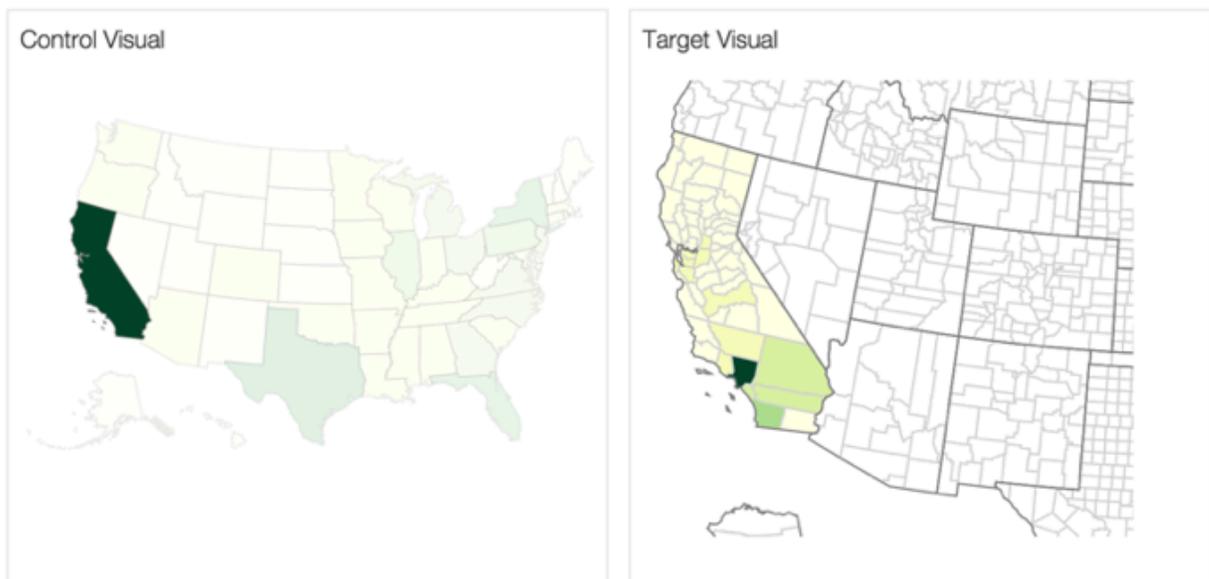
Before starting, make sure to refresh the browser page to load the updated Target Visual. Note that it does not show a map.

Procedure

1. In the Control Visual, left-click one of the states (California) until the control menu appears, then click Test click behavior.

Control Visual

The Target Visual changes, zooming in on the California portion of the map, displaying population density in county choropleth mode.



2. Save the app and open it in View mode.



Note: Every click on a state region in the Control Visual refreshes the Target Visual.