

## Using Natural Language Search

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## Using Search in embedded mode

To use Cloudera Data Visualization in embedded mode, a search visual has to be added to the dashboards, which provides the same functionality. For information on how to configure a search visual, see [Working with Search visuals](#).

### Related Information

[Working with search visuals](#)

## Working with search visuals

The purpose of the search visual is to include search functionality in embedded dashboards.

Search visuals enable you to place a data search button directly on your dashboard. This is particularly useful in embedded cases. The Enable Search Visual, Enable Search in Menu Bar, and Enable Search Visual settings need to be enabled in Site Settings to turn on the search feature and the datasets need to be enabled separately to add them to the search results. See *Enabling NLS in Site Settings* and *Enabling dataset for NLS*.

### Related Information

[Enabling NLS in site settings](#)

[Enabling dataset for NLS](#)

## Creating a search visual

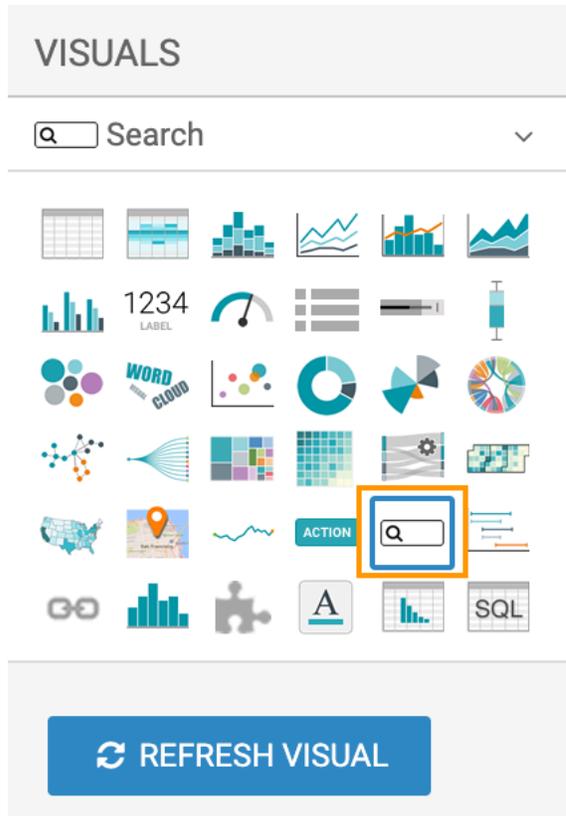
The purpose of the Search visual is to include search functionality in embedded dashboards.

### Procedure

1. Start a new visual.

For instructions, see [Creating a visual](#).

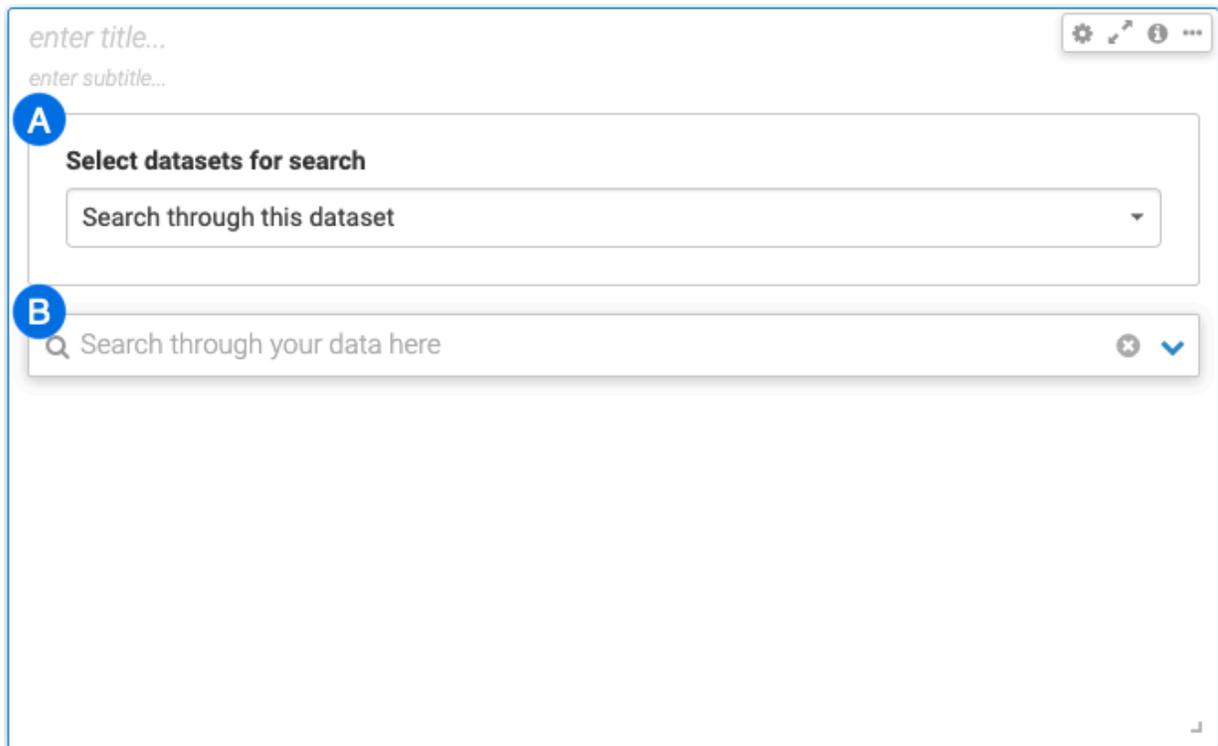
2. Click Search in the VISUALS menu.



**Note:** This visual type does not use shelves.

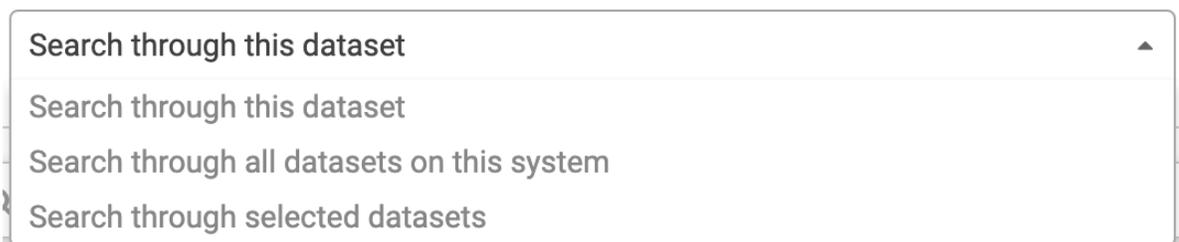
### 3. Configure the Search visual.

There are two drop-down lists in the main area of the Dashboard Designer.



- a. Select datasets for search: The dataset selector menu lets you restrict the search to specific datasets with the following options:

#### Select datasets for search



**Note:** The current dataset does not have to be search enabled so the Search through this dataset option works. The Search through all datasets and the Search through selected datasets options only show search enabled datasets. See [Enabling dataset for NLS](#).

- b. Search box: This is the area where you enter the search phrase for visualizing your data.
4. Enter a title for the visual.
5. Click SAVE in the top left corner.

#### Related Information

[Creating a visual](#)

[Enabling dataset for NLS](#)

## Using the search visual in a dashboard

After creating a Search visual, it is available for use from the Dashboard page like any other visual.

## Before you begin

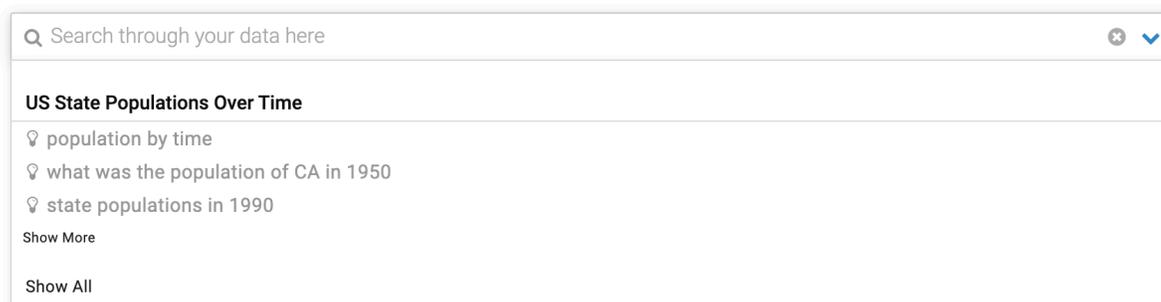
Before performing this task, you need to create a Search visual. For instructions, see [Creating a search visual](#).

## Procedure

1. Open the dashboard from the Dashboard page.

The Search Box visual appears in the dashboard. Its only element is the search box itself.

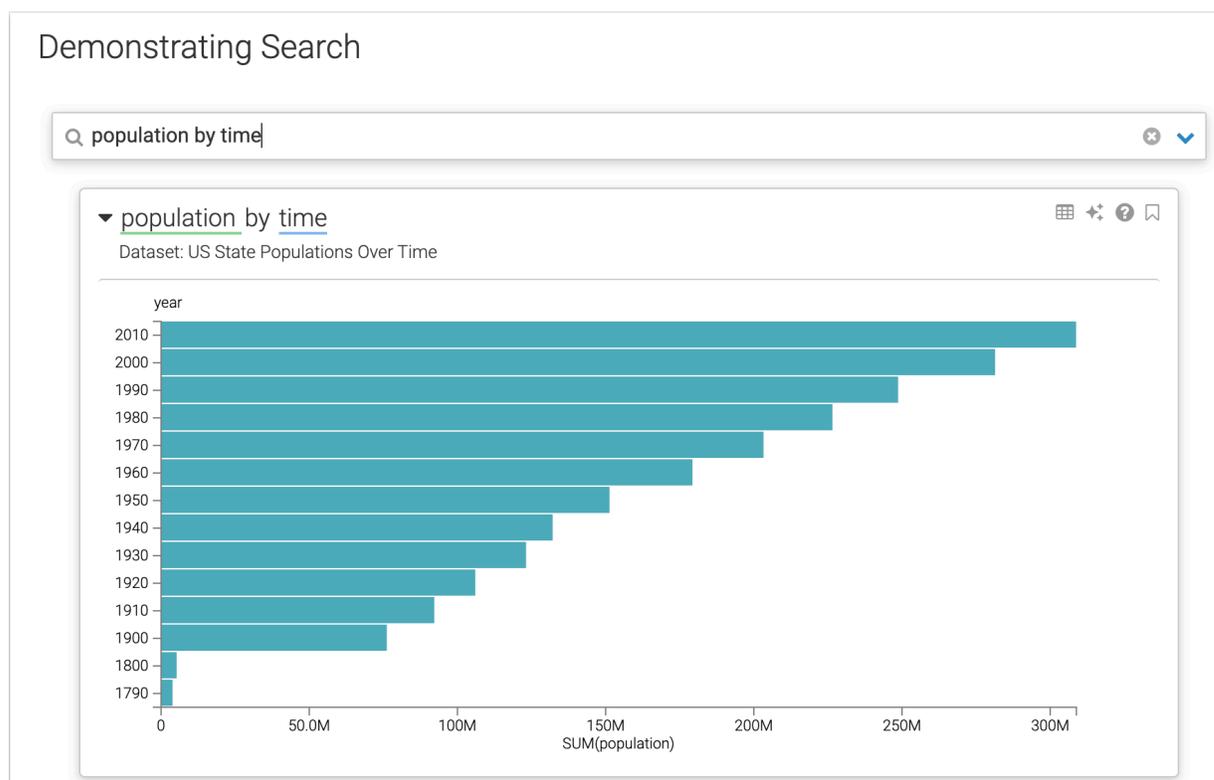
### Demonstrating Search



2. Click the search text box and choose one of the following search alternatives:
  - Type in a new search statement.
  - Select one of the searches from the drop-down list. They are grouped into the following categories:
    - Grouped by Dataset
    - Favorites
    - Search History

### 3. Select a search.

The visual changes. It shows both the search box with the specified search statement and the visual that reports the results of that statement. In the following example, 'population by time' is selected.



For more information on the available actions, see [Search results](#).

#### Related Information

[Search results](#)

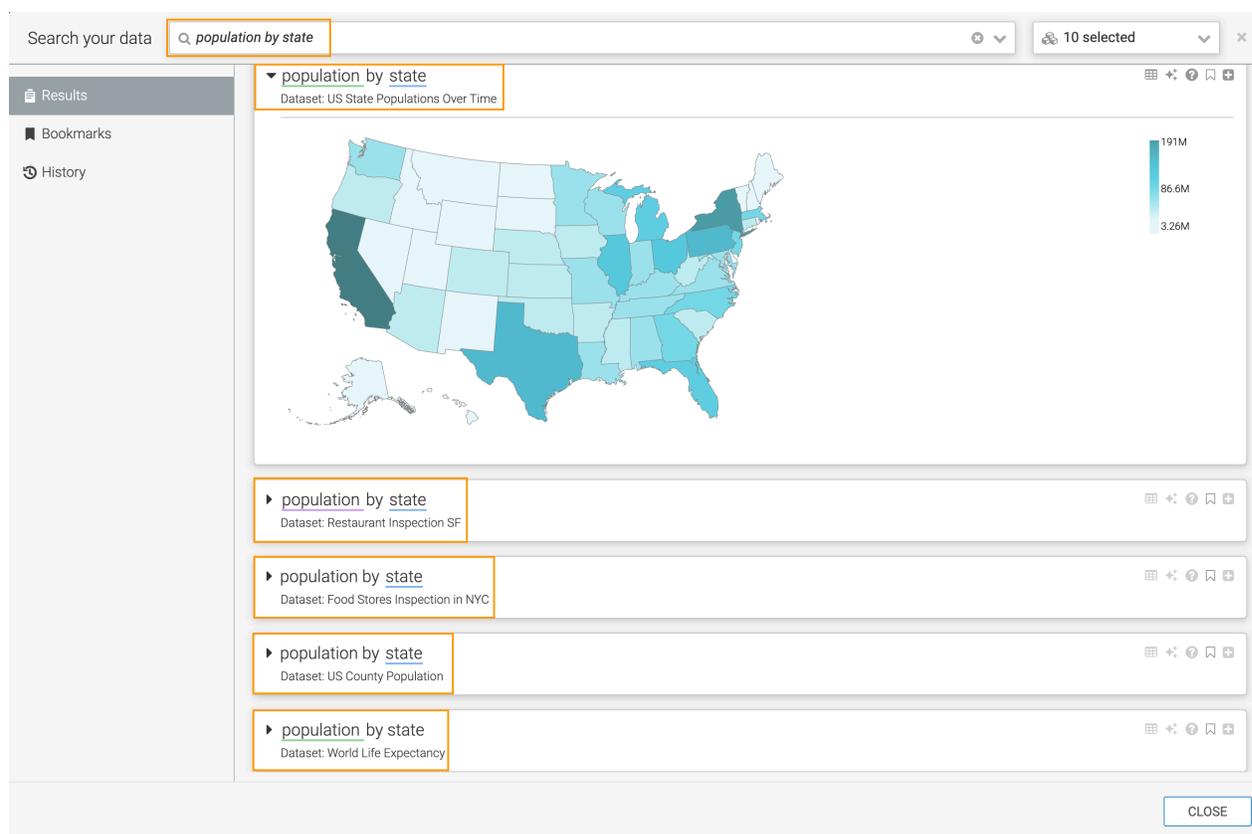
[Creating a search visual](#)

## Changing dataset search domain

In Cloudera Data Visualization, you can perform Natural Language Search (NLS) across all enabled datasets, or restrict your search to selected datasets.

#### About this task

When searching across all search-enabled sample datasets, which is the default setting, the search population by state returns results from five datasets: US State Populations Over Time, Restaurant Inspection SF, Food Stores Inspection in NYC, US County Population, and World Life Expectancy.



To limit the search:

### Procedure

1. Select the Datasets menu in the top right corner.
2. Deselect all the datasets that you do not want to include in the search.

This restricts the search to relevant data.



**Note:** You may choose to deselect all datasets, and then selectively add some of them back.

3. Perform the search again.

### Example

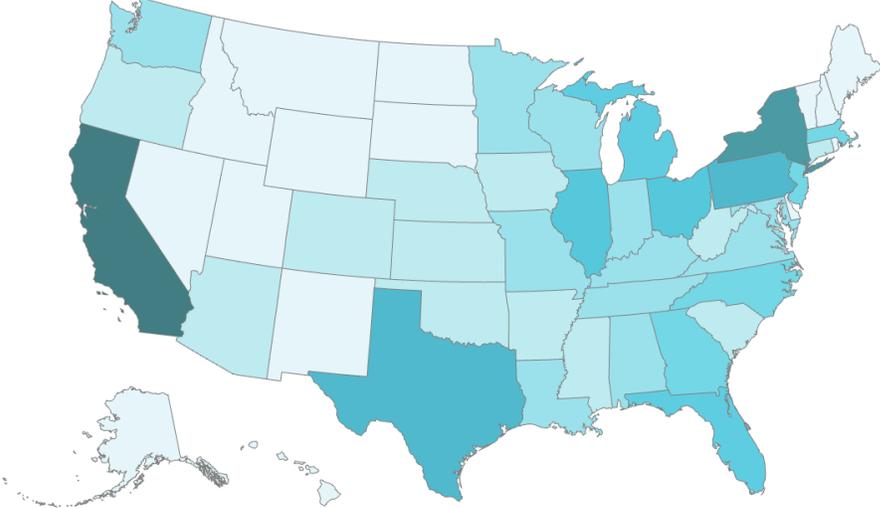
In the figure below, the US County Population and US State Populations Over Time datasets are selected, so the results based on the other datasets no longer appear in the search results.

 2 selected 

- All
- Inspections**
  - Food Stores Inspection in ...
  - Restaurant Inspection SF
- Ungrouped**
  - Cereals
  - Earthquake Data January ...
  - Global Information Securit...
  - Iris
  - NYC Taxicab Rides Detail
  - Restaurant Inspection SF
  - US County Population
  - US State Populations Over...
  - World Life Expectancy

Q *population by state*

▼ population by state  
Dataset: US State Populations Over Time

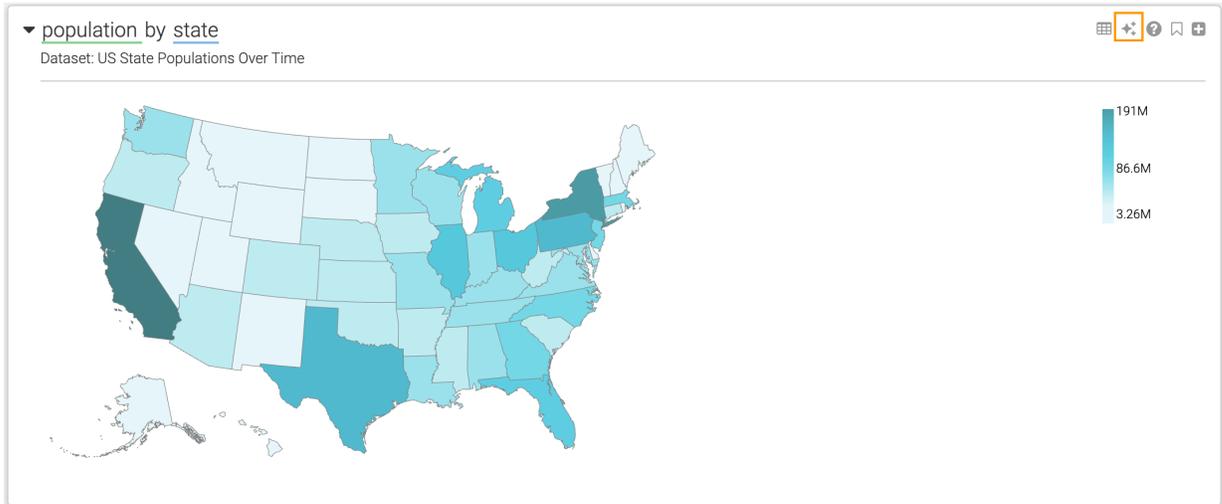


▶ population by state  
Dataset: US County Population

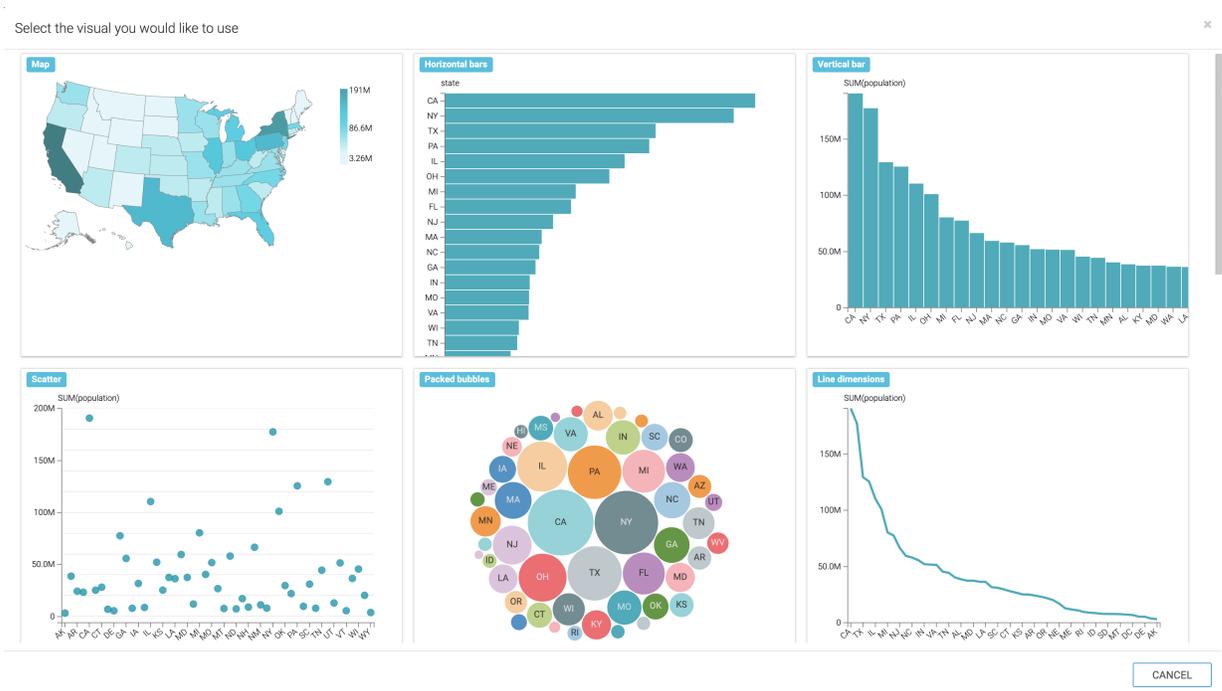
## Changing result visual type through explore

**Procedure**

1. In the Search Results menu, select the visual you would like to change, and click the Explore icon.



A modal window opens, where you can preview the different visuals. The top left corner of each tile indicates the visual type.



2. Select one of the visuals.

**Results**

The new visual type replaces the one originally generated by the search.

