

Filtering Data with Controls



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Dashboard (common definition)

A webpage with a collection of related charts

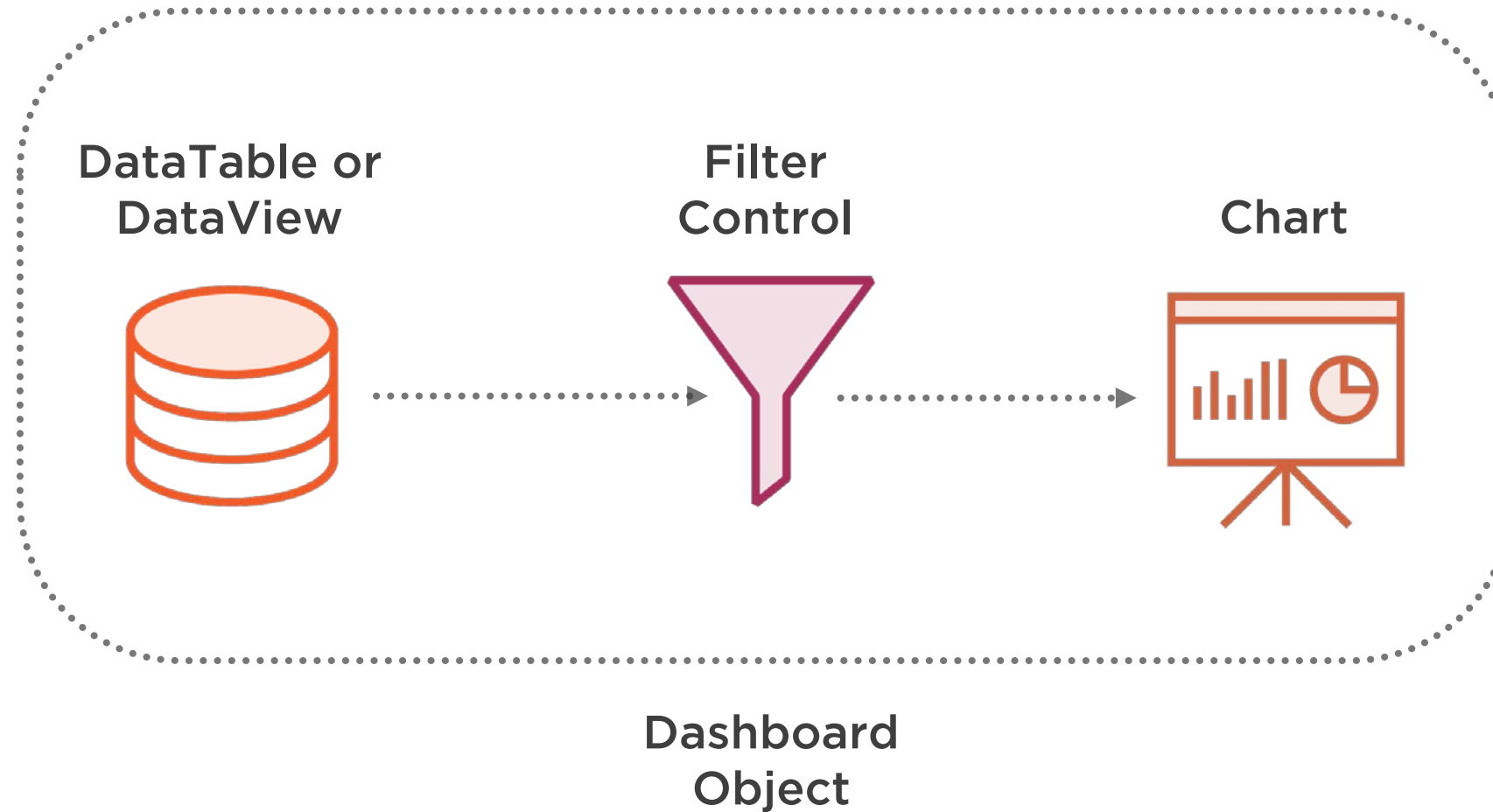


Dashboard Object

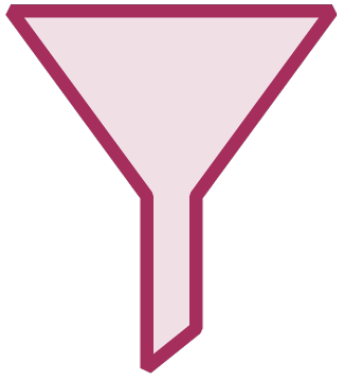
- Chart(s)
- Control(s)
- DataTable or DataView



The Dashboard Object



Control Types



CategoryFilter

ChartRangeFilter

DateRangeFilter

NumberRangeFilter

StringFilter

Starting HTML for Dashboard Object

```
<html>

  <head>
    <!-- The usual script tags go here -->
  </head>

  <body>
    <div id="divContainer">
      <div id="divChart"></div>
      <div id="divControl"></div>
    </div>
  </body>

</html>
```



JavaScript for a Dashboard Object

```
var container = new google.visualization.Dashboard(  
    document.getElementById('divContainer'));  
  
var chart = new google.visualization.ChartWrapper({  
    chartType: 'PieChart',  
    containerId: 'divChart',  
    options: {}  
});  
  
var control = new google.visualization.ControlWrapper({  
    controlType: 'DateRangeFilter',  
    containerId: 'divControl ',  
    options: {}  
});  
  
container.bind(control, chart);  
container.draw(chartData);
```



The ChartRangeFilter Control



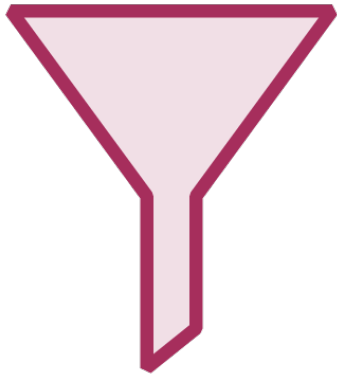
Demo: Coding the ChartRangeFilter



The DateRangeFilter Control



Control Types



CategoryFilter

ChartRangeFilter

DateRangeFilter

NumberRangeFilter

StringFilter

Demo: Switching to DateRangeFilter



NumberRangeFilter & StringFilter Controls



NumberRangeFilter & StringFilter

10.0  120.0

NumberRangeFilter

a 

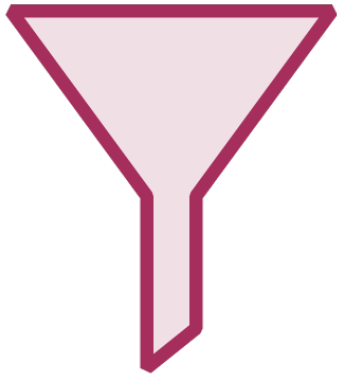
StringFilter



Demo: Coding NumberFilter



Control Types



CategoryFilter

ChartRangeFilter

DateRangeFilter

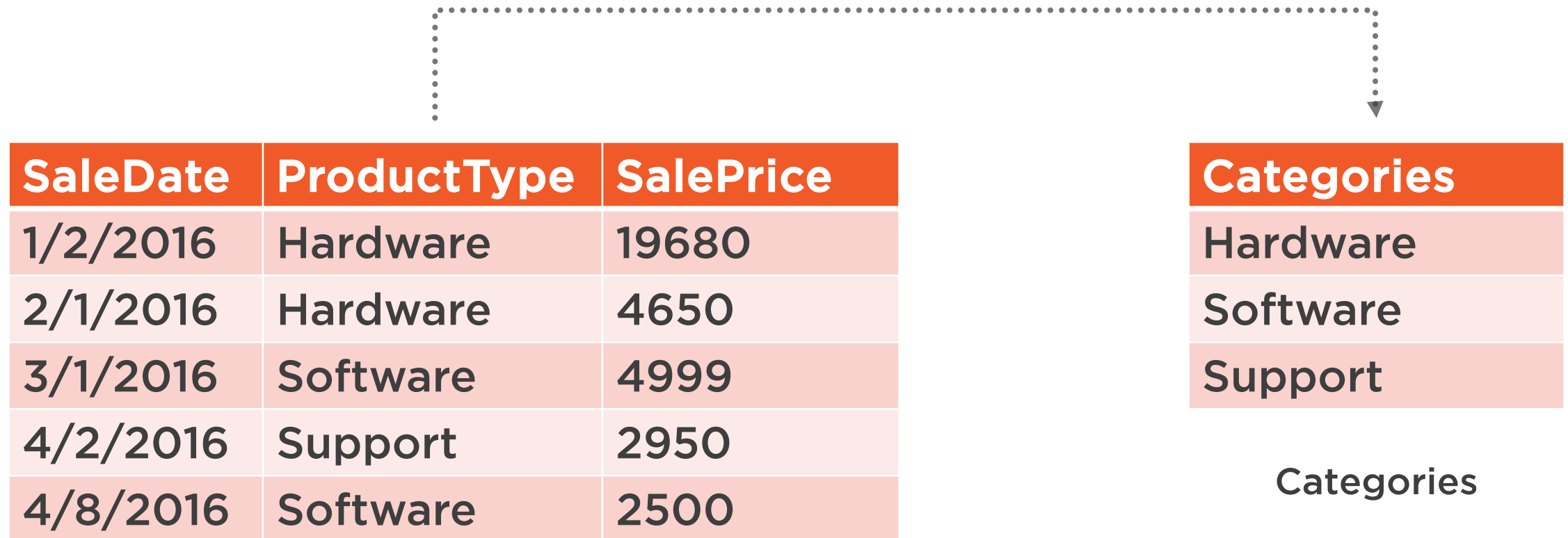
NumberRangeFilter

StringFilter

The CategoryFilter Control



CategoryFilter



DataTable

Categories



Demo: Dashboard – final chart demo



Summary



Filters We've Covered:

- CategoryFilter
- ChartRangeFilter
- DateRangeFilter
- NumberRangeFilter
- StringFilter

Next up:

- Combining charts into a dashboard
- Responsive Design

