

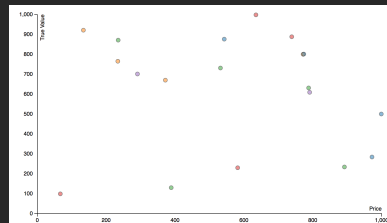
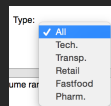
Example: filter data - dropdown

- **Maintain a version of the full data**
- **On change to dropdown, filter the data according to new selection and re-render**

Example: filter data - dropdown

```
<div id="filters">
  <select id="myselectform">
    <option value="all">All</option>
    <option value="tech">Tech.</option>
    <option value="transp">Transp.</option>
    <option value="retail">Retail</option>
    <option value="fastfood">Fastfood</option>
    <option value="pharm">Pharm.</option>
  </select>
</div>
```

```
<script>
document.getElementById("myselectform").onchange =
  function(){
    filterType(this.value);
  }
</script>
```

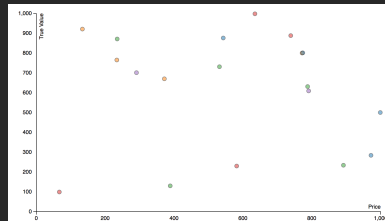
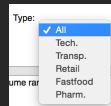


Example: filter data - dropdown

```
var patt = new RegExp("all");
var dataset;

d3.csv("stocks.csv", function(error, stocks) {
  if (error) return console.warn(error);
  stocks.forEach(function(d) {
    d.price = +d.price;
    d.tValue = +d.tValue;
    d.vol = +d.vol;
  });
  dataset = stocks;
  drawVis(dataset);
});

function filterType(mtype) {
  var res = patt.test(mtype);
  if(res){
    drawVis(dataset);
  }else{
    var ndata = dataset.filter(function(d) {
      return d["type"] == mtype;
    });
    drawVis(ndata);
  }
}
```

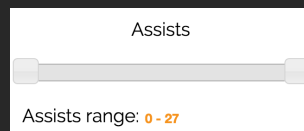
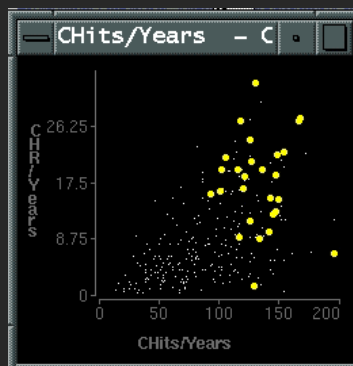


```
function drawVis(data) {
  //construct the visualization here
}
```

Example: filter data - 1 slider

Example:

- Scatterplot showing homeruns over hits
- Filter by assists



```
<script src="http://code.jquery.com/jquery-1.10.2.js"></script>
```

```
<script src="http://code.jquery.com/ui/1.11.1/jquery-ui.js"></script>
```

Example: filter data - 1 slider

The range slider (jQuery):

```
<p>Assists</p>
<div id="assists" class="slider-range"></div>
<label for="assistamount">Assists range:</label>
<input type="text" id="assistamount" readonly style="border:0;
color:#f6931f; font-weight:bold;">
```

The handler function:

```
$(function() {
  $( "#assists" ).slider({
    range: true,
    min: 0,
    max: maxAssists,
    values: [ 0, maxAssists ],
    slide: function( event, ui ) {
      $( "#assistamount" ).val( ui.values[ 0 ] + " - " + ui.values[ 1 ] );
      filterAssists(ui.values); } });
  $( "#assistamount" ).val( $( "#assists" ).slider( "values", 0 ) +
    " - " + $( "#assists" ).slider( "values", 1 ) ); }
```

Example: filter data - 1 slider

```
var dataset = ... #the full dataset (don't overwrite!)

function filterAssists(values){
  var toVisualize = dataset.filter(function(d) {
    return d["assists"] >= values[0] && d["assists"] < values[1]
  });
  updateVis(toVisualize);
}
```

What if we also had a dropdown for filtering a nominal variable?

What if we wanted to define a general filter function that could be called by multiple sliders?