JET another presentation, why oh why?

Alan Arentsen

Database Consultancy

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SCHOOL + RENT
SALVATAGGIO

Database Consultancy

Database Consultancy

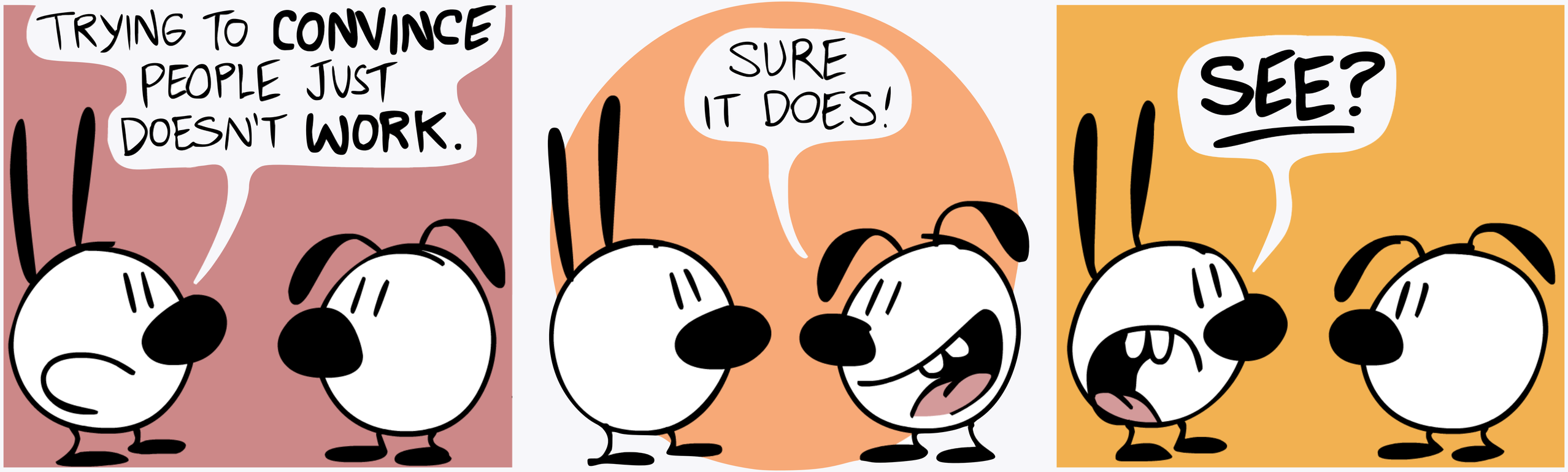
Database Consultancy

ORACLE ACE

Database Consultancy

ORACLE ACE

twitter @ alanarentsen



ORACLE ACE

Oracle Groundbreakers

ORACLE
ACE Program

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3 membership tiers

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Oracle Groundbreakers

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2016

Oracle Application Express

Release 5.1 Now Available

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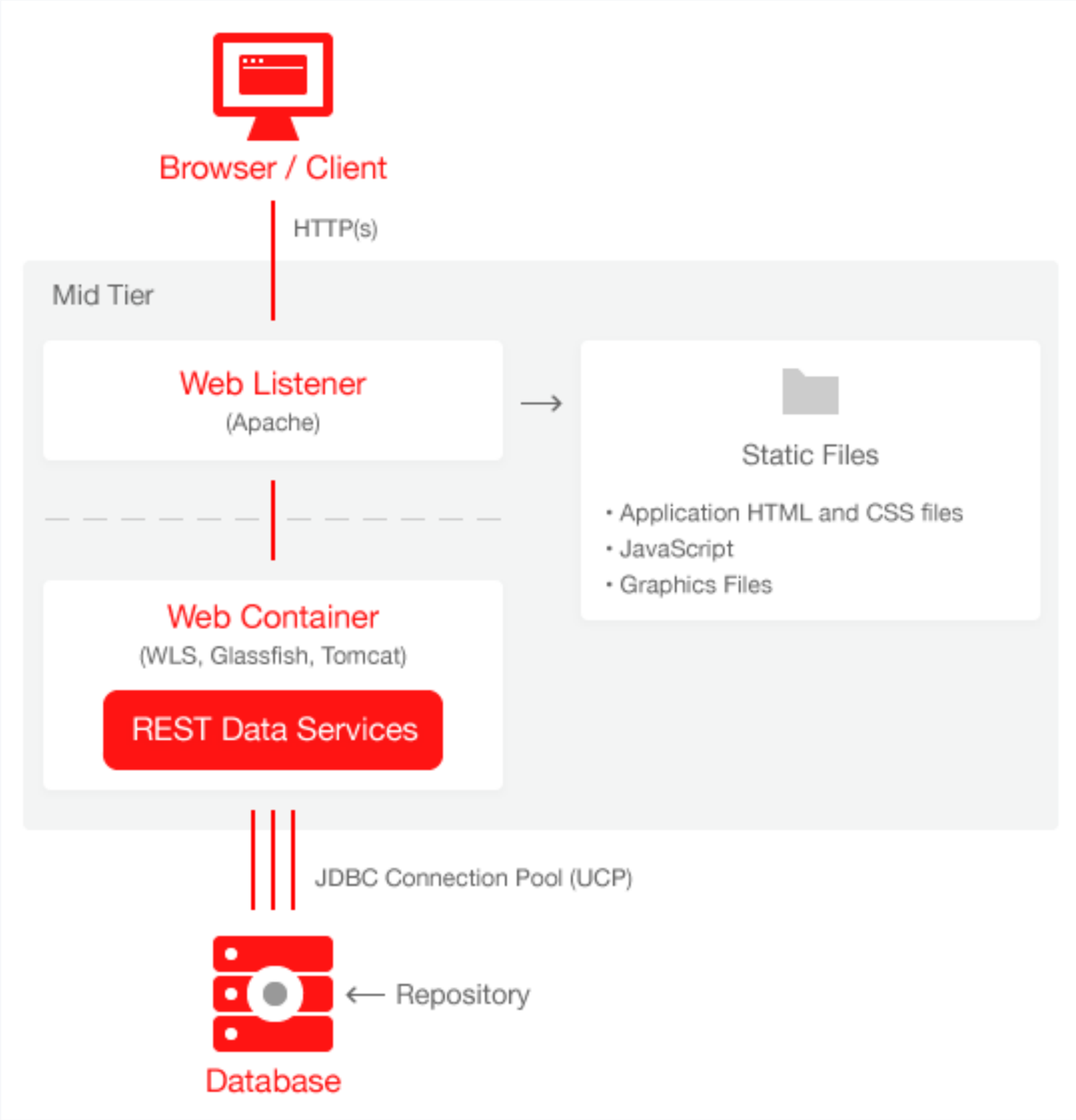
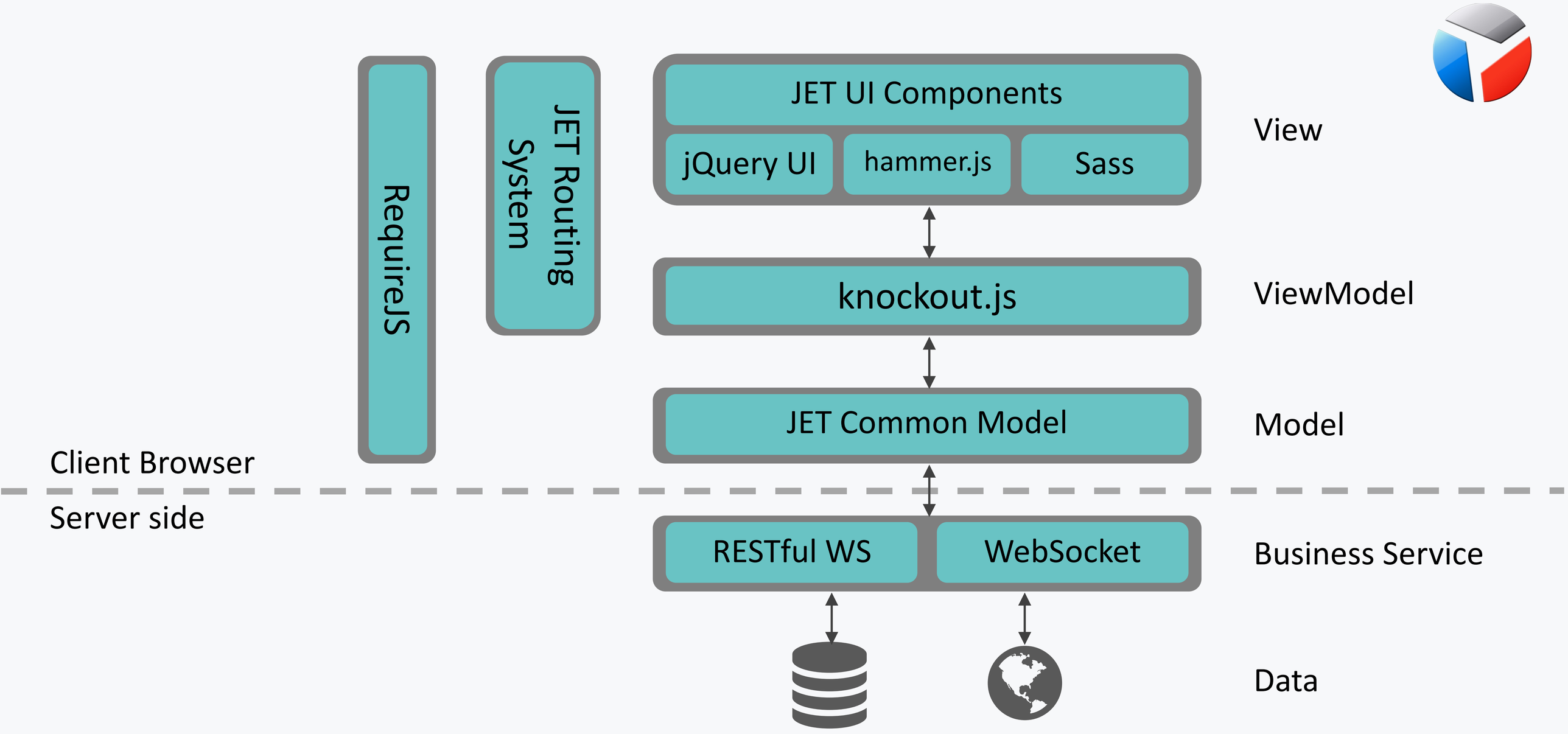
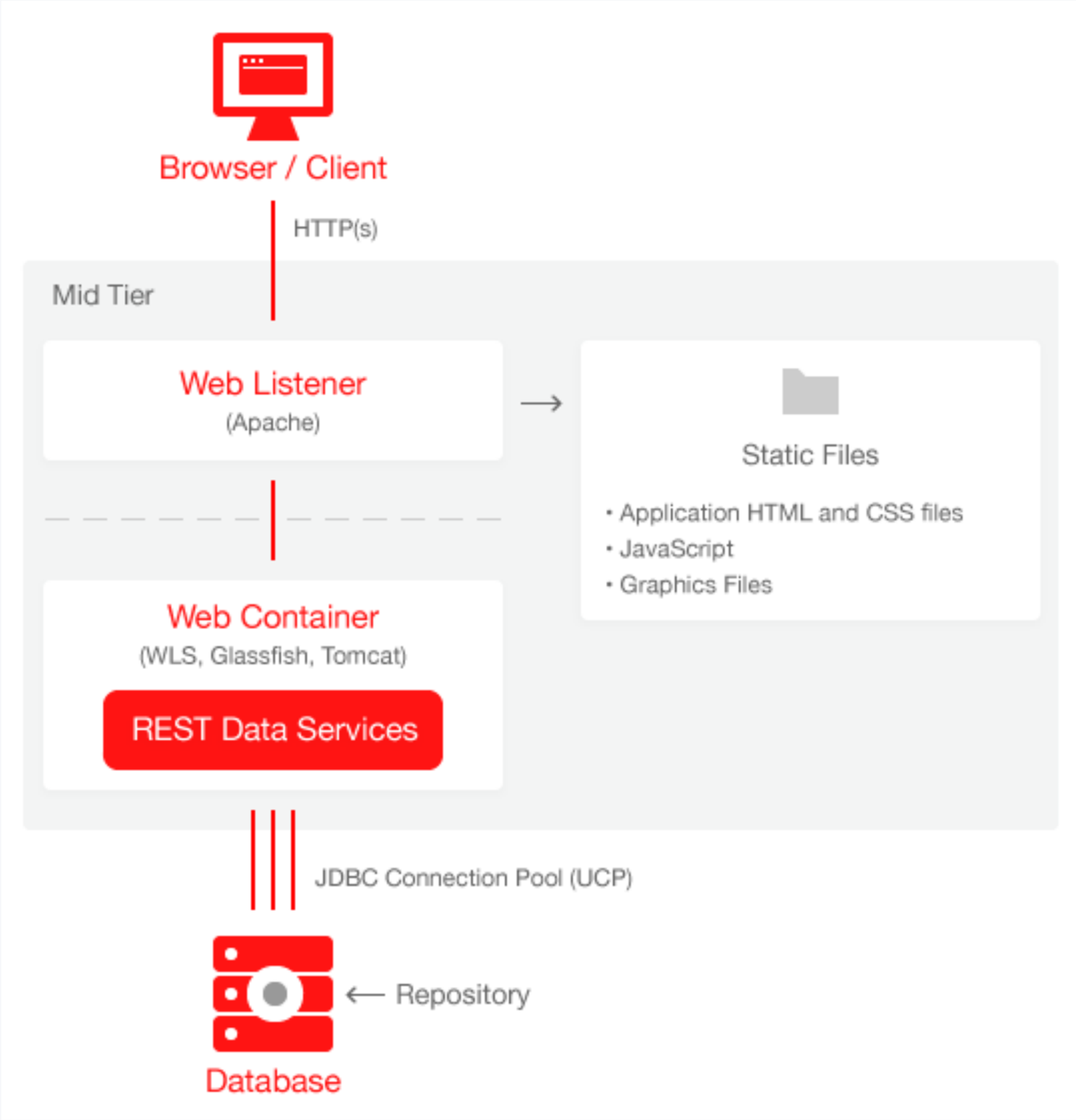

Browser / Client
HTTP(s)
Mid Tier
Web Listener
(Apache)
Static Files
• Application HTML and CSS files
• JavaScript
• Graphics Files
Web Container
(WLS, Glassfish, Tomcat)
REST Data Services
JDBC Connection Pool (UCP)
Repository
Database


RequireJS
JET Routing System
JET UI Components
jQuery UI
hammer.js
Sass
View
knockout.js
ViewModel
JET Common Model
Model
Client Browser
Server side
RESTful WS
WebSocket
Business Service
Data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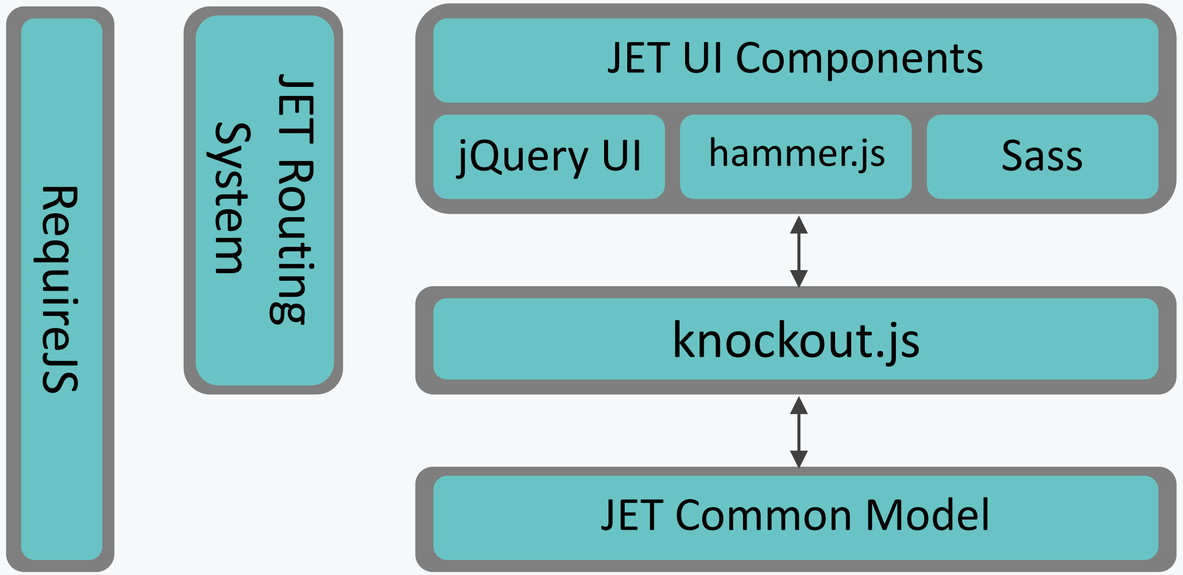
RequireJS
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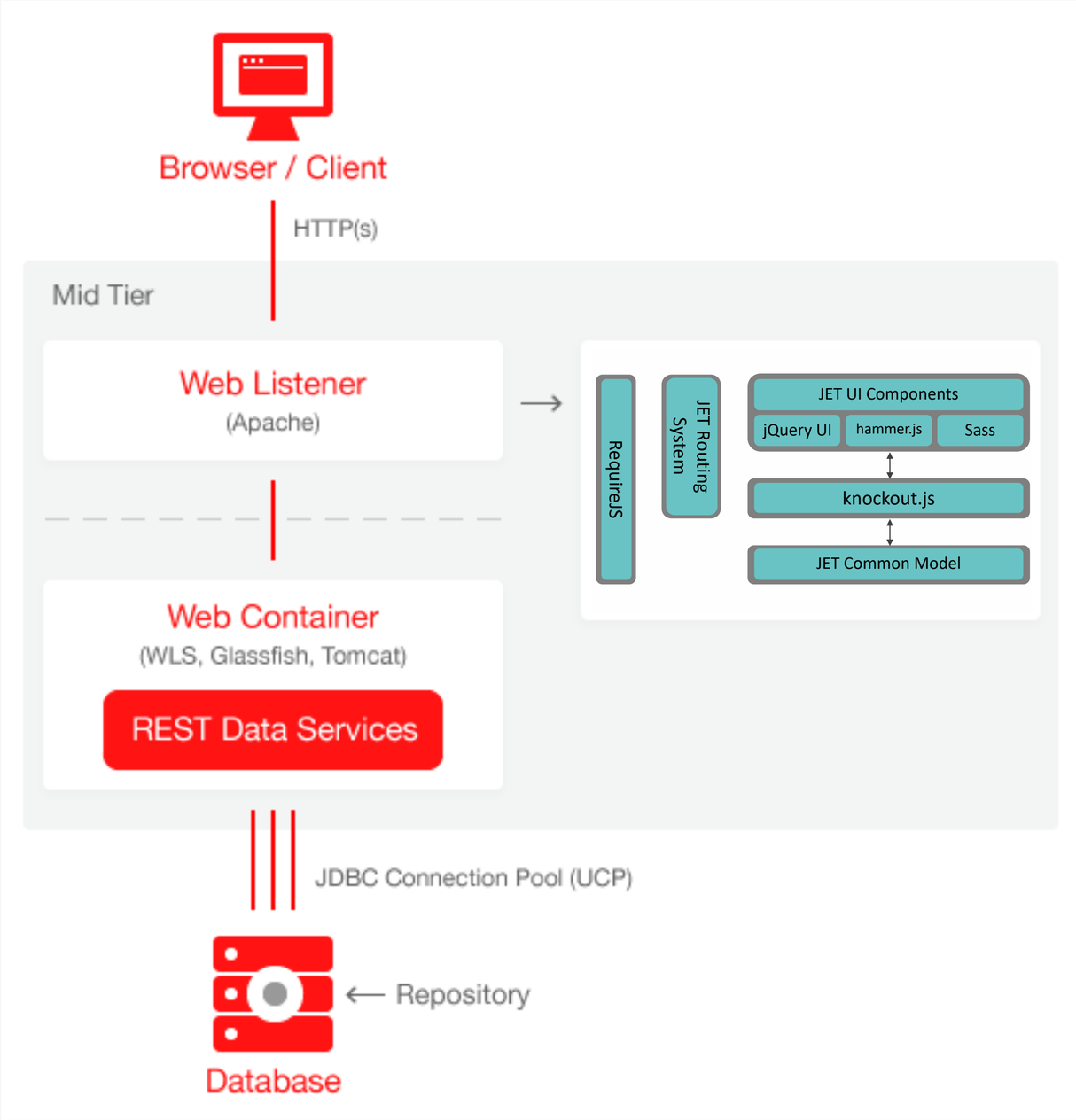
hammer.js
Sass
knockout.js
JET Common Model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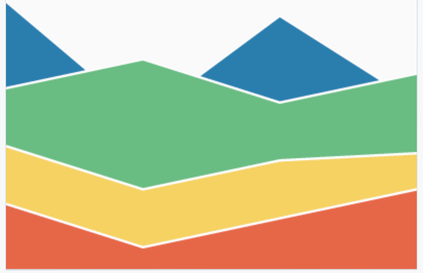
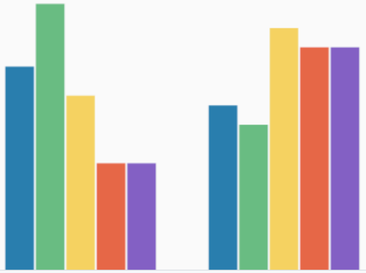
Database

Charts

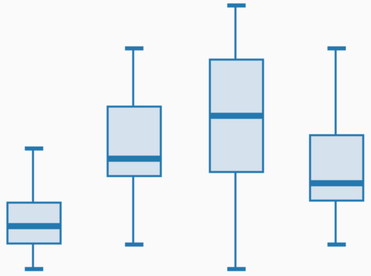
Area Chart



Bar Chart

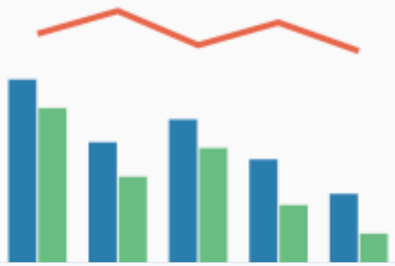


Box Plot Chart

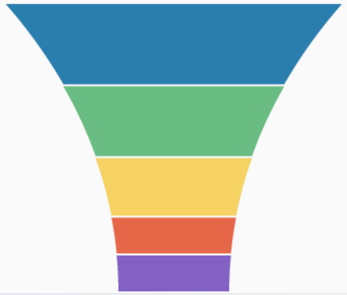


Bubble Chart

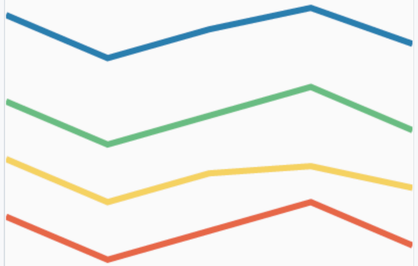
Combination Chart



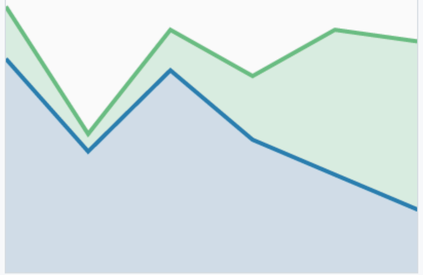
Funnel Chart



Line Chart



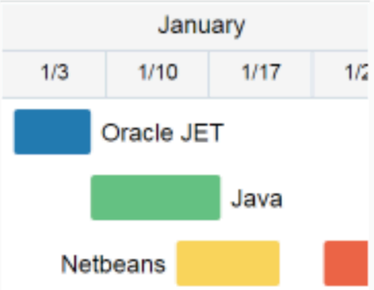
Line with Area Chart



Pie Chart

Polar Chart

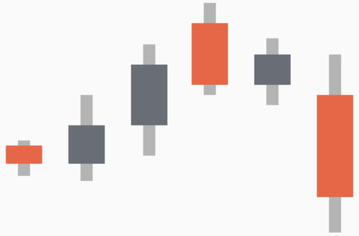
Gantt



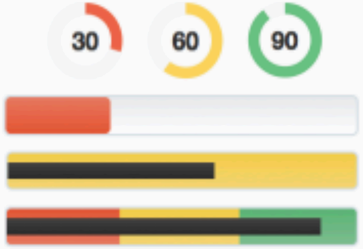
Range Chart

Scatter Chart

Stock Chart



Status Meter Gauge

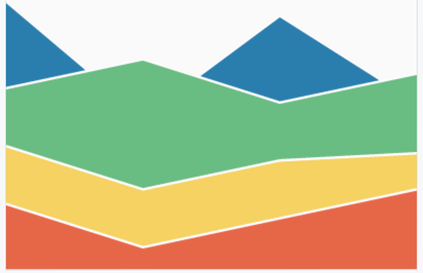


Charts

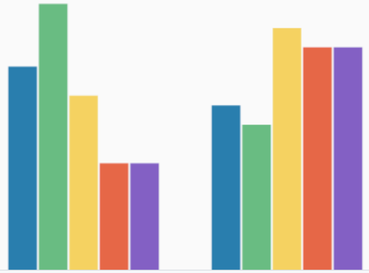
Charts

Visualisations

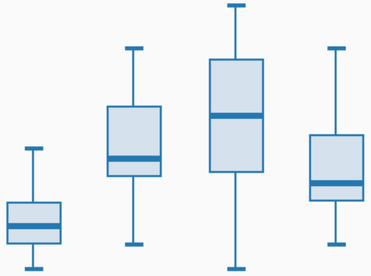
Area Chart



Bar Chart

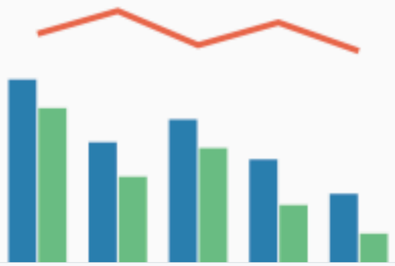


Box Plot Chart

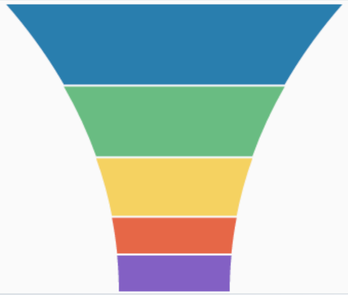


Bubble Chart

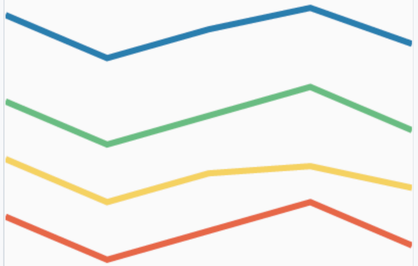
Combination Chart



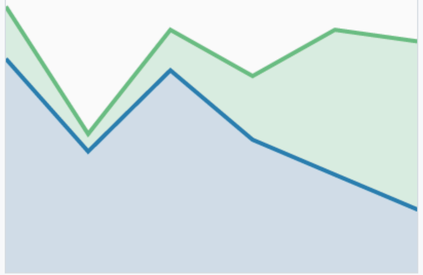
Funnel Chart



Line Chart



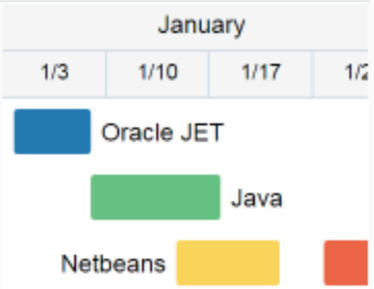
Line with Area Chart



Pie Chart

Polar Chart

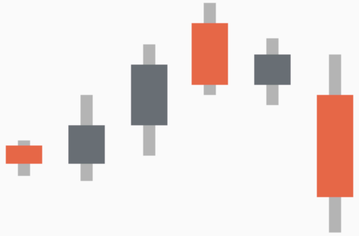
Gantt



Range Chart

Scatter Chart

Stock Chart



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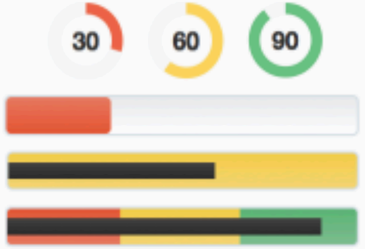
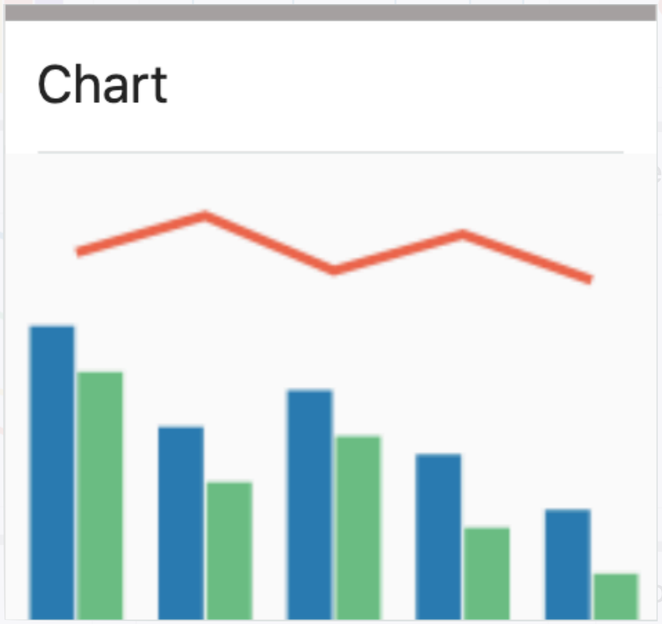
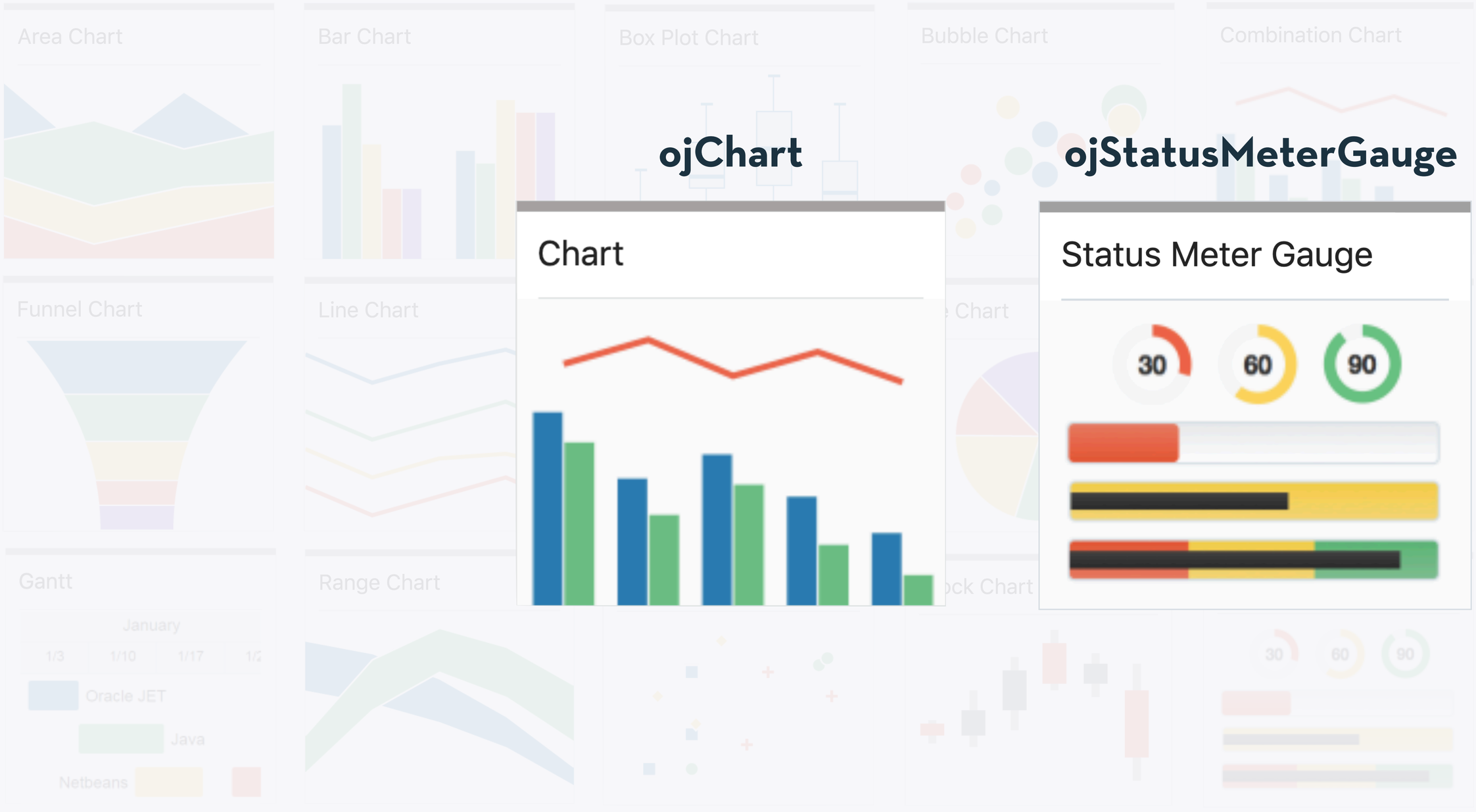


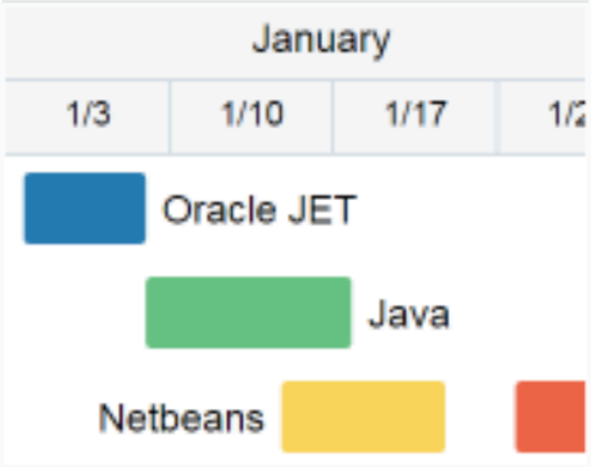
ojChart




Area Chart
Bar Chart
Box Plot Chart
Bubble Chart
Combination Chart
ojChart
ojStatusMeterGauge
Chart
Status Meter Gauge
30
60
90
Funnel Chart
Line Chart
Gantt
Range Chart
January
1/3
1/10
1/17
Oracle JET
Java
Netbeans

ojGantt

Gantt



ojChart

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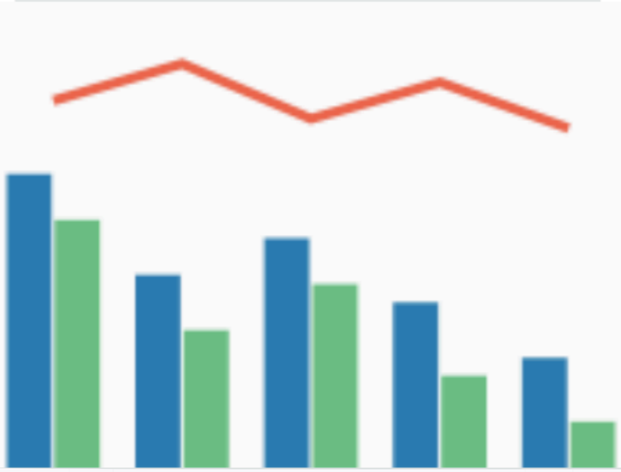
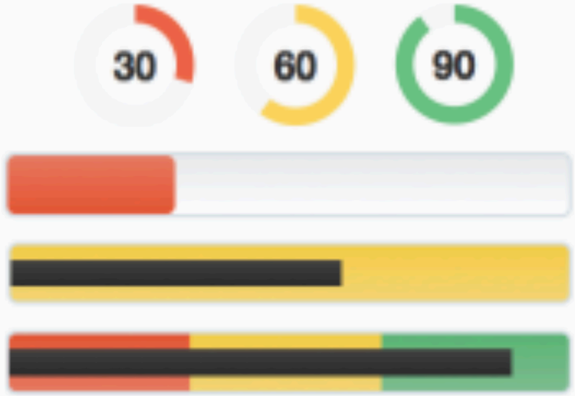


ojStatusMeterGauge

Status Meter Gauge



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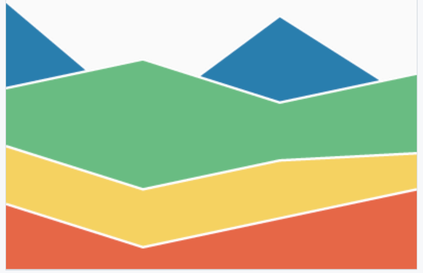

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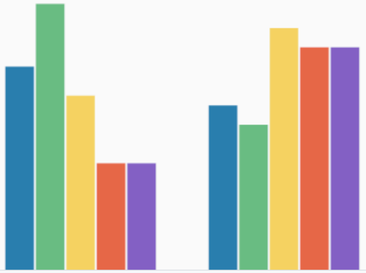

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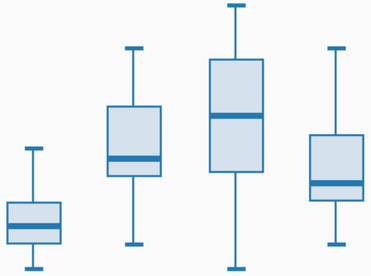

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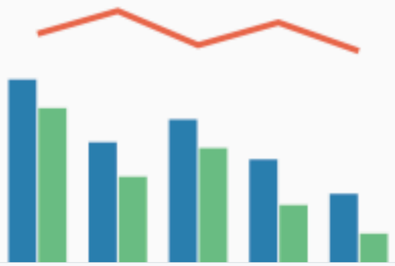
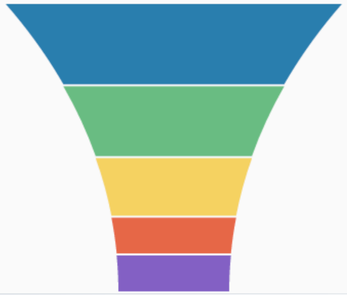
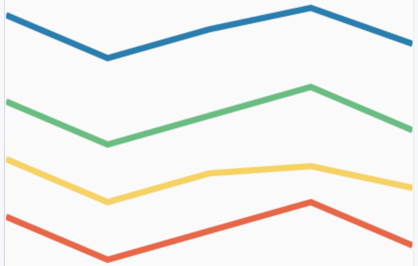


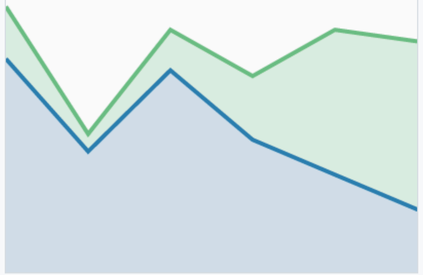
Funnel Chart



Line Chart



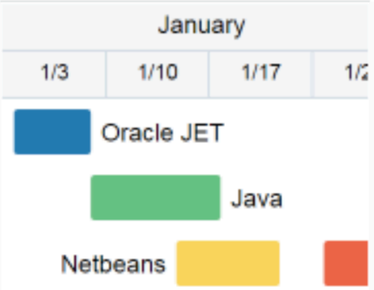
Line with Area Chart



Pie Chart

Polar Chart

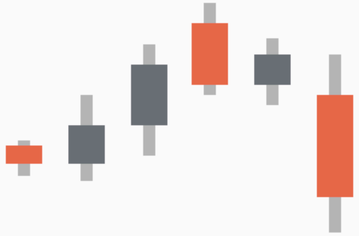
Gantt



Range Chart

Scatter Chart

Stock Chart



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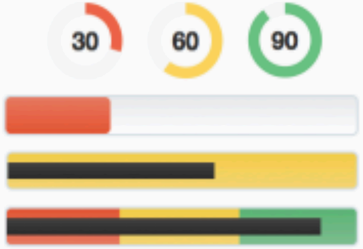


SEVERAL DAYS LATER

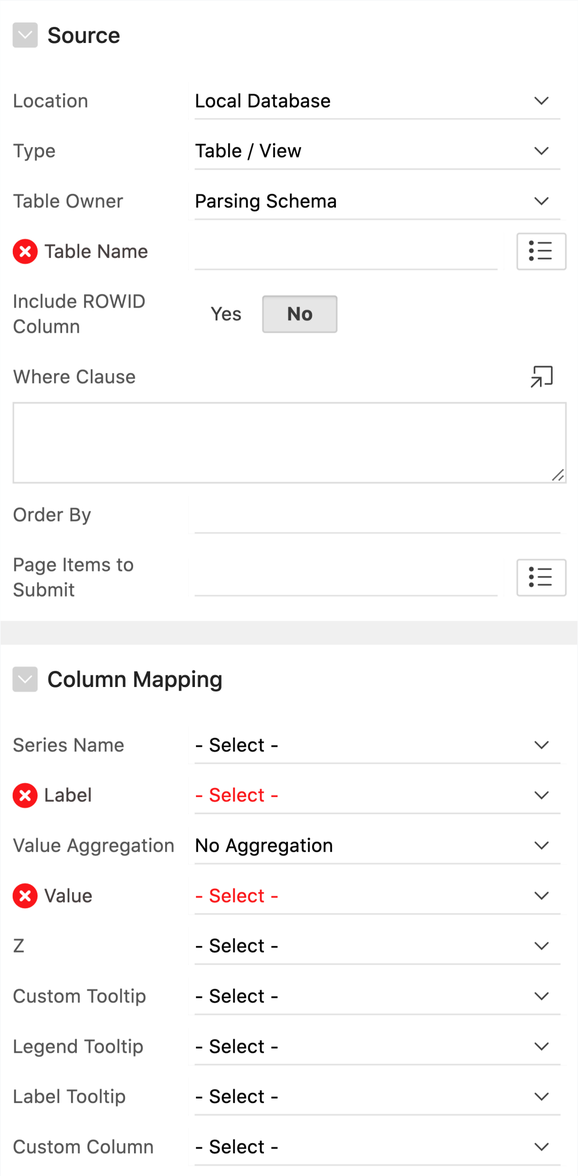
1

Chart

1

Chart

2


Source
Location
Local Database
Type
Table / View
Table Owner
Parsing Schema
Table Name
Include ROWID Column
Yes
No
Where Clause
Order By
Page Items to Submit
Column Mapping
Series Name
- Select -
Label
- Select -
Value Aggregation
No Aggregation
Value
- Select -
Z
- Select -
Custom Tooltip
- Select -
Legend Tooltip
- Select -
Label Tooltip
- Select -
Custom Column
- Select -

1

Chart

2

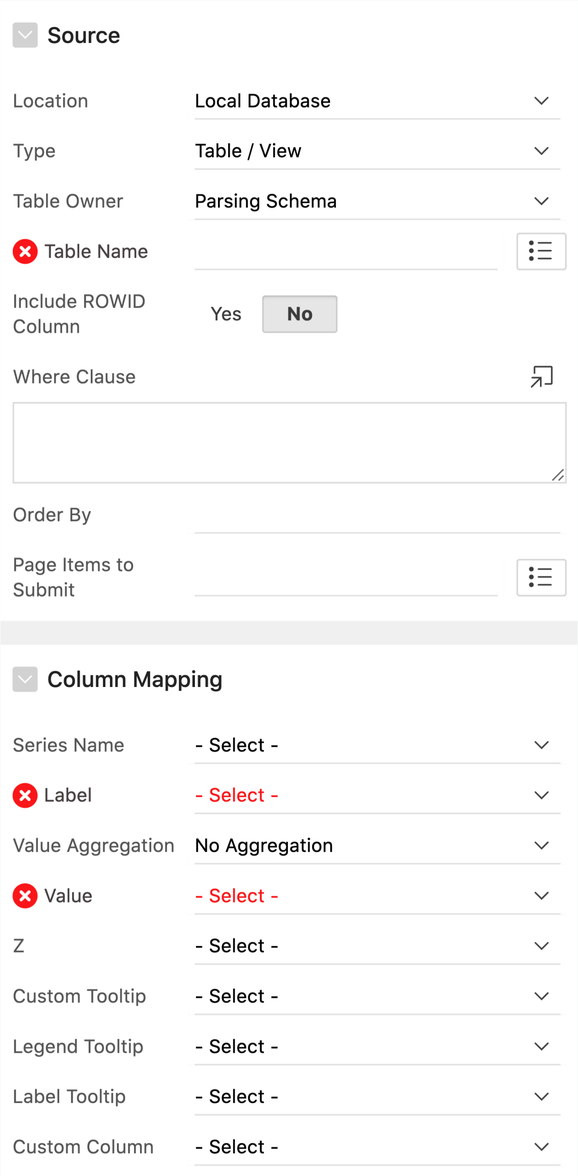

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Table Owner
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Table Name
Include ROWID Column
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Page Items to Submit
Column Mapping
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No Aggregation
Value
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- Select -
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- Select -
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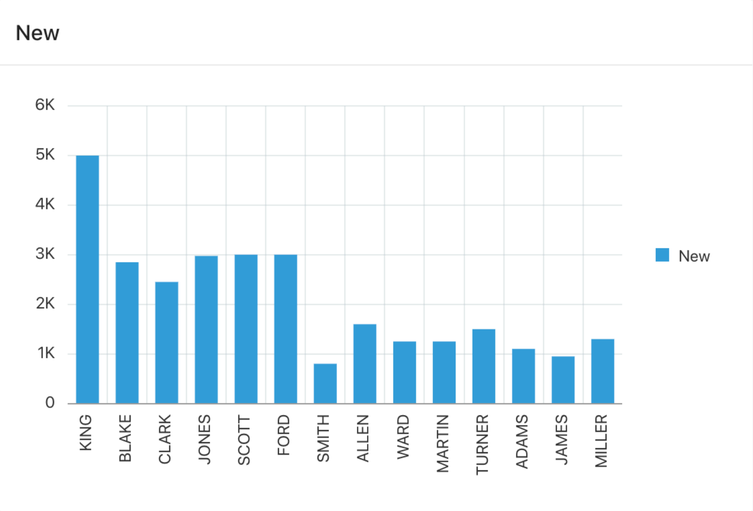
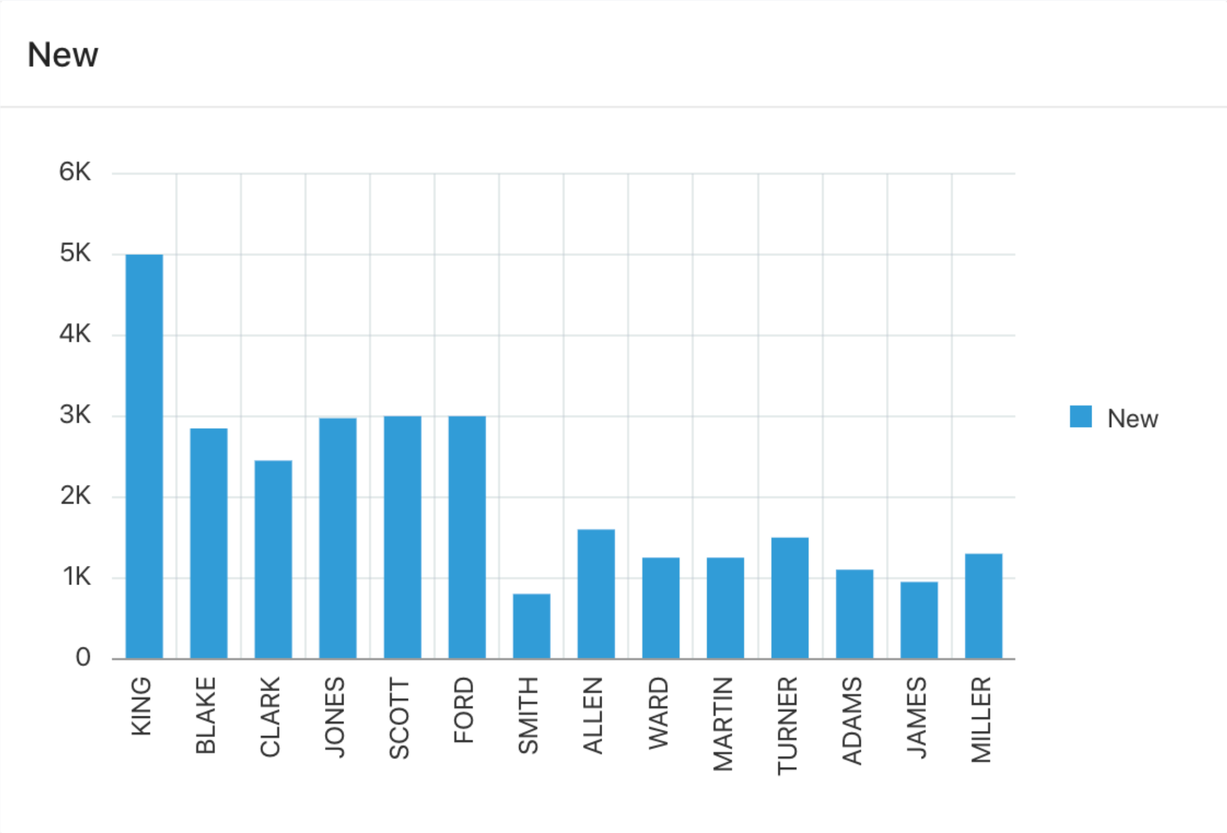
- Select -
Label Tooltip
- Select -
Custom Column
- Select -

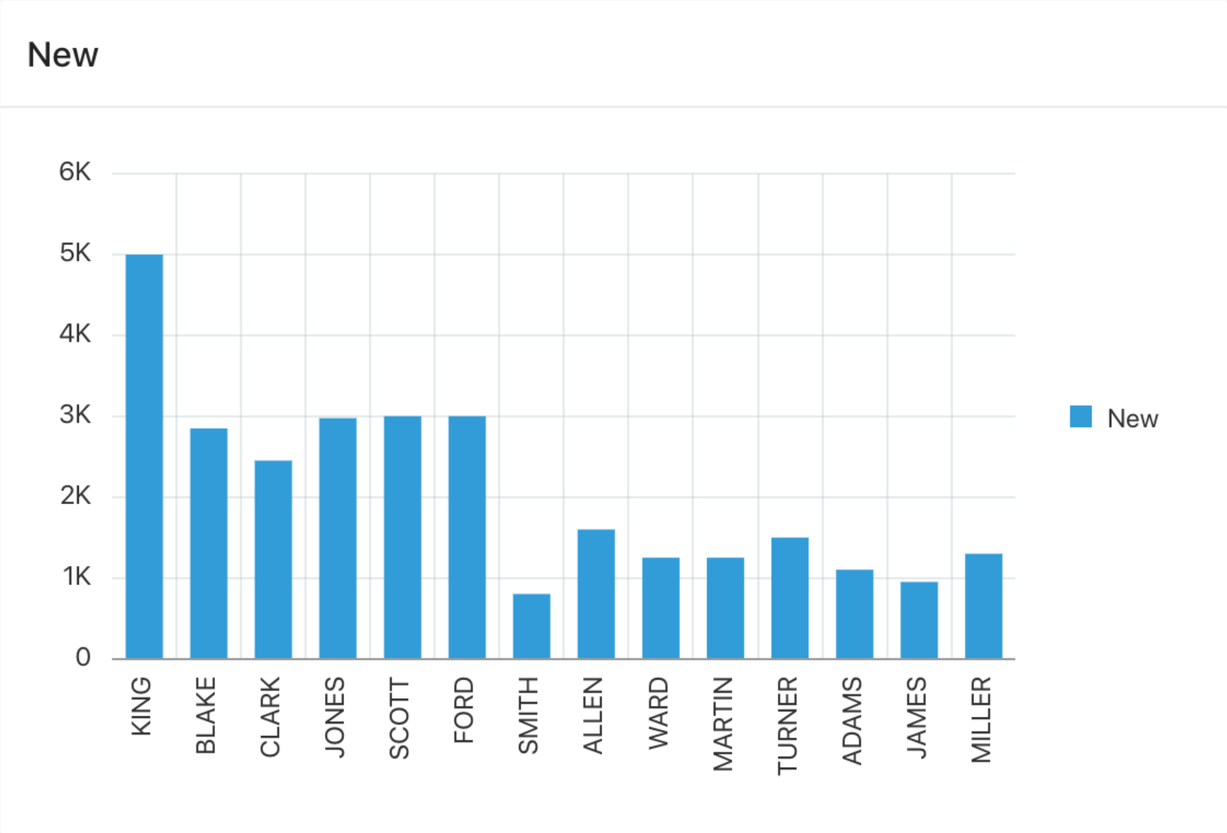
3


New
6K
5K
4K
3K
2K
1K
0
KING
BLAKE
CLARK
JONES
SCOTT
FORD
SMITH
ALLEN
WARD
MARTIN
TURNER
ADAMS
JAMES
MILLER
New

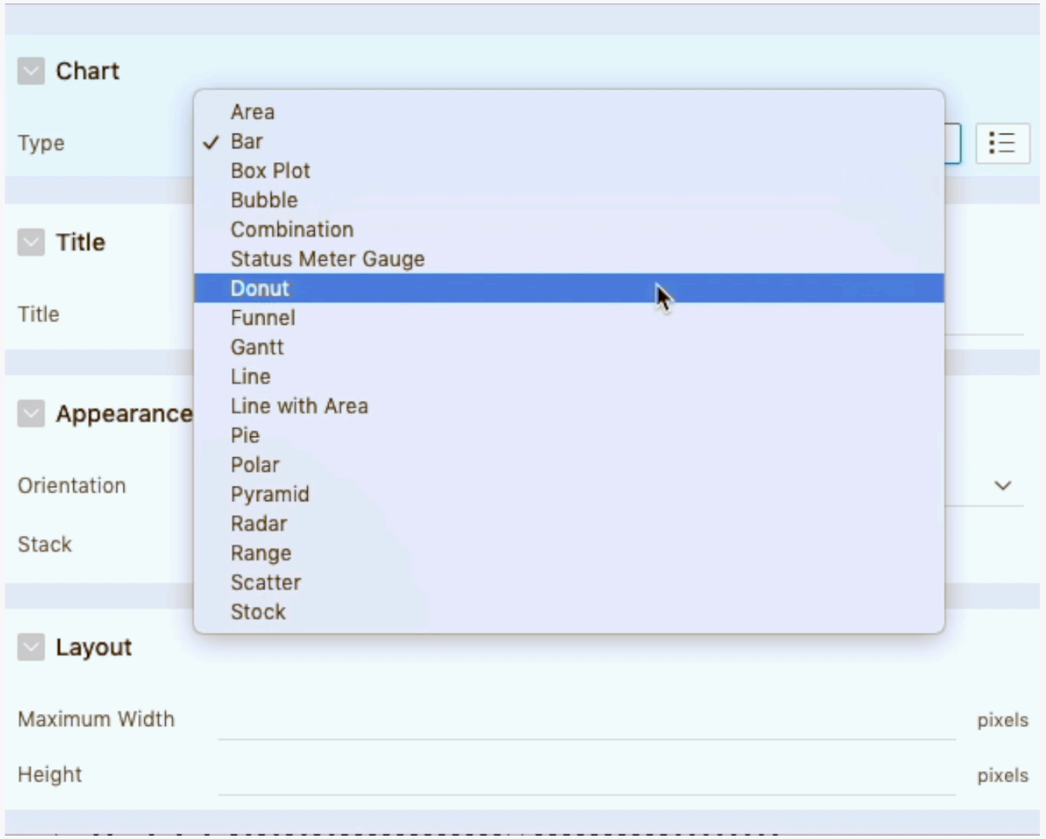
Default Chart Type



Default Chart Type



Region Attributes



Data Cursor

Cursor: Automatic

Behavior: Automatic

Dim On Hover: Yes | **No**

Multi-Series Chart Data

Fill Gaps in Chart Data: **Yes** | No

Sort Order: Label - Ascending

Settings

Time Axis Type: - Select -

Zoom and Scroll: No

Animation

On Display: Automatic

On Data Change: Automatic

Tooltip

Show: **Yes** | No

Show Series Name: **Yes** | No

Show Group Name: **Yes** | No

Show Value: **Yes** | No

Legend

Show: **Yes** | No

Title:

Position: Automatic

Hide and Show Behavior: None

Font Family: - Select -

Font Style: - Select -

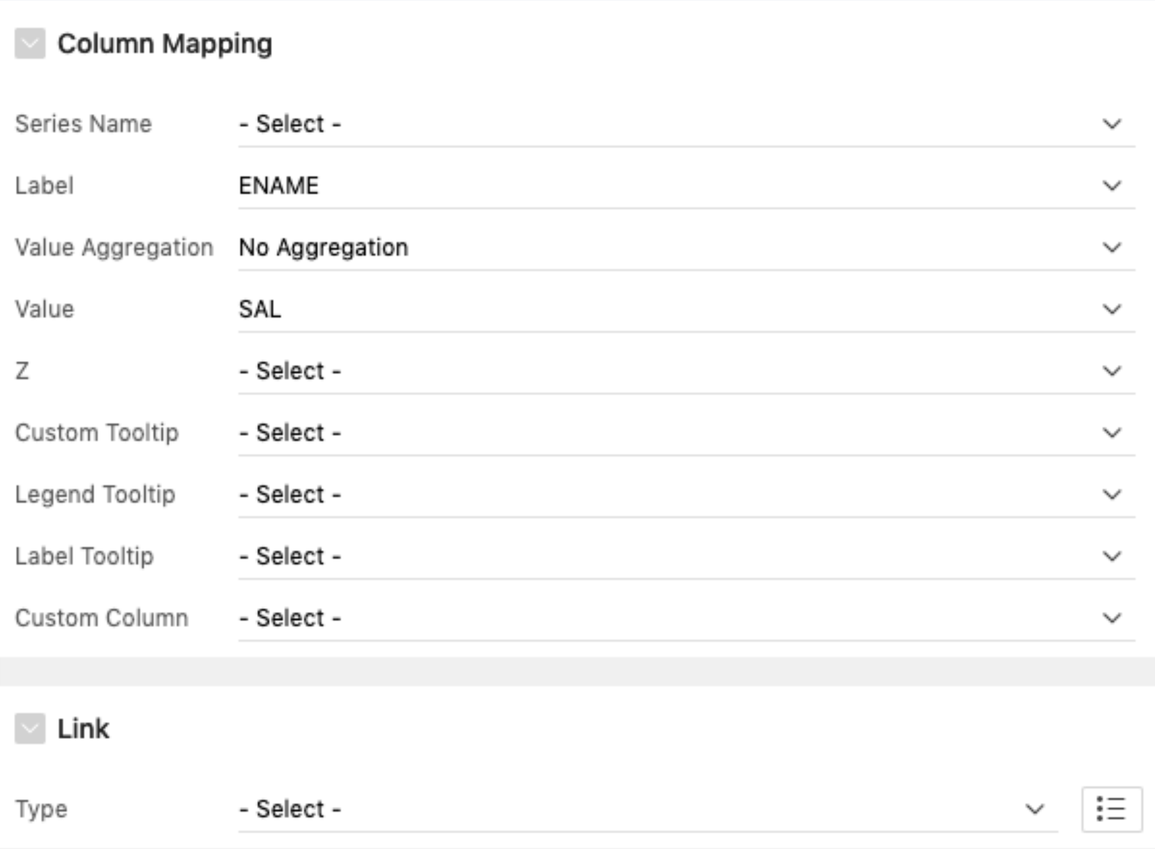
Font Size: - Select -

Font Color:

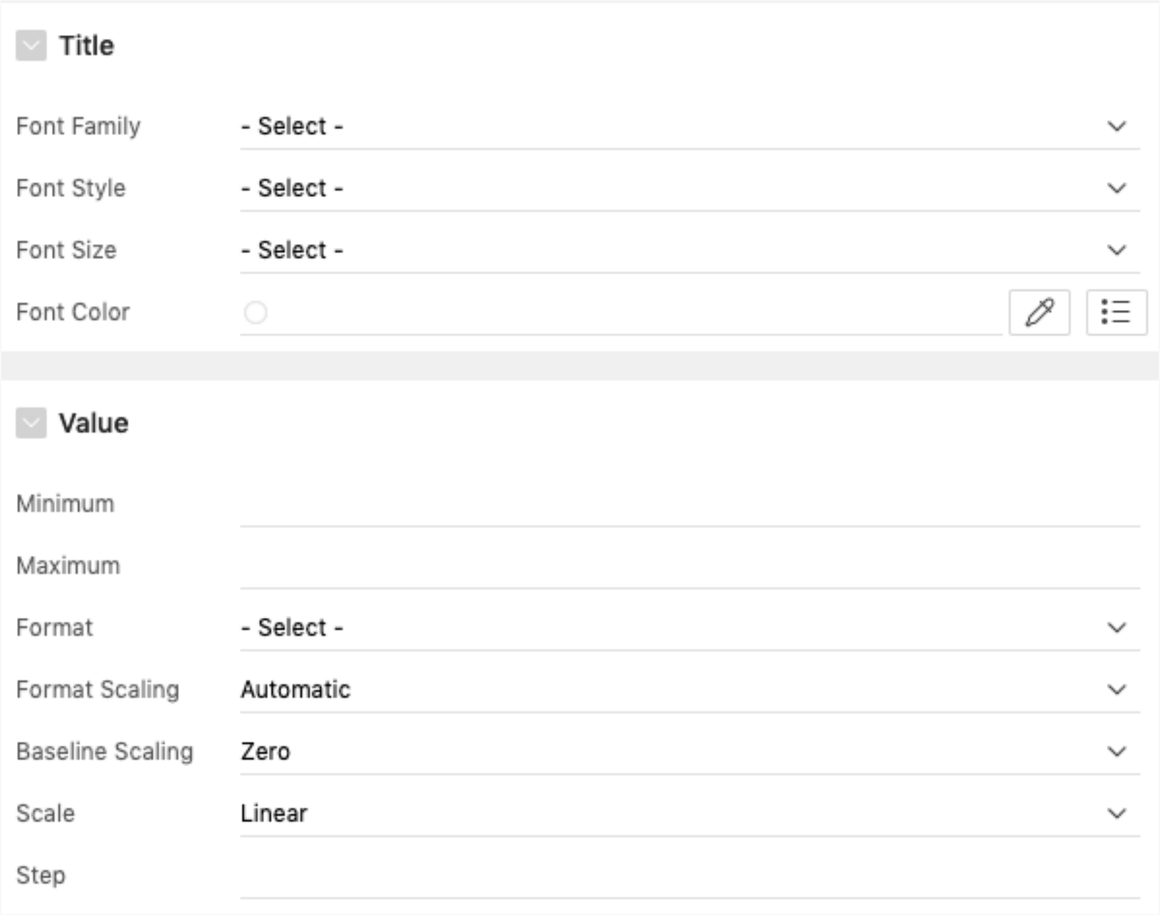
Automatic Refresh

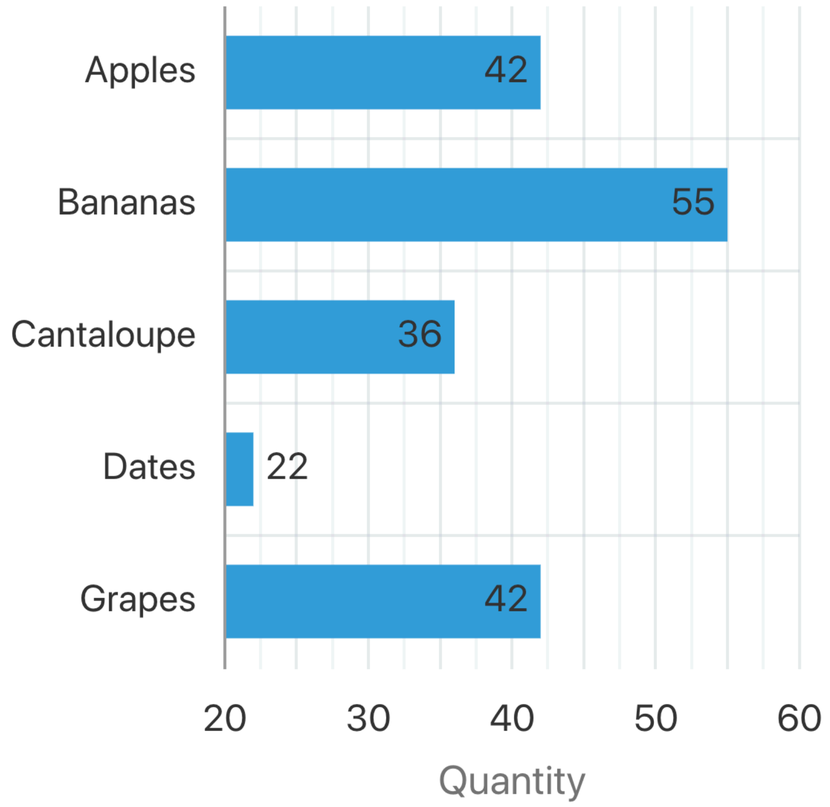
Interval: seconds

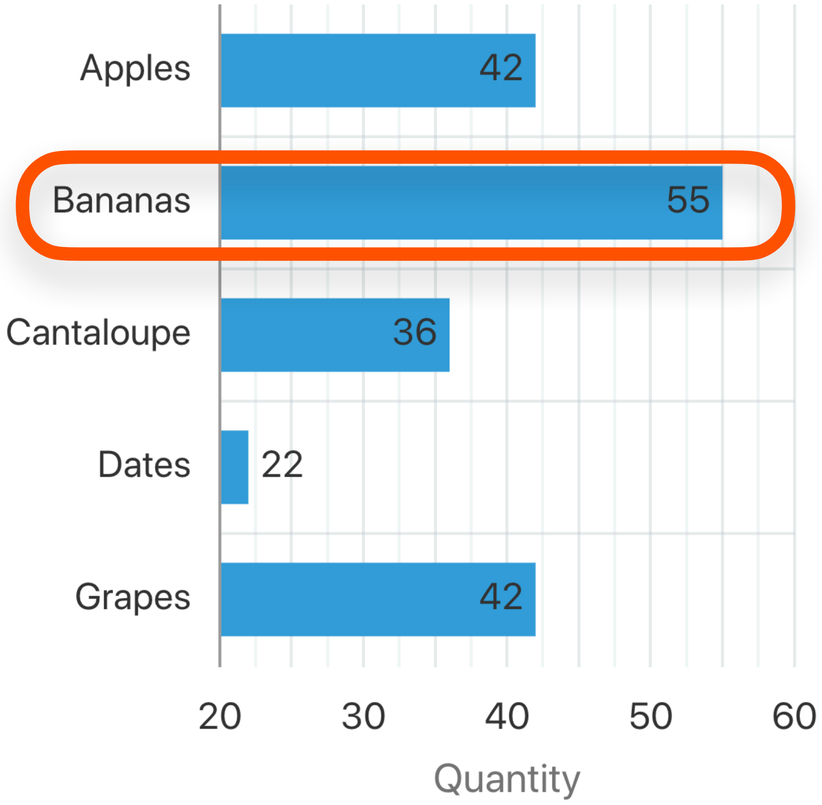
Region Series

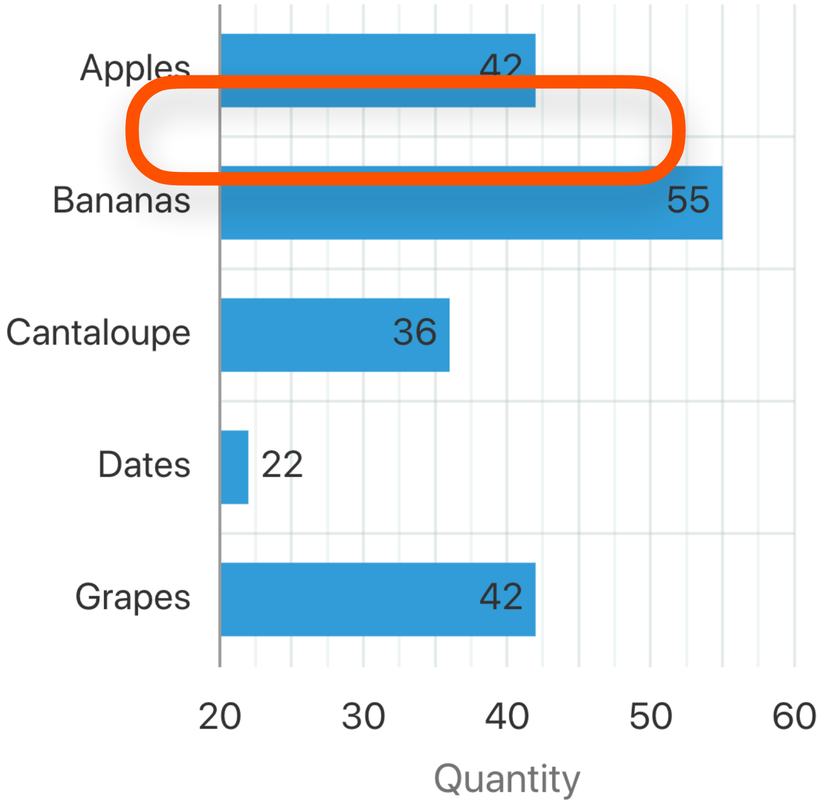


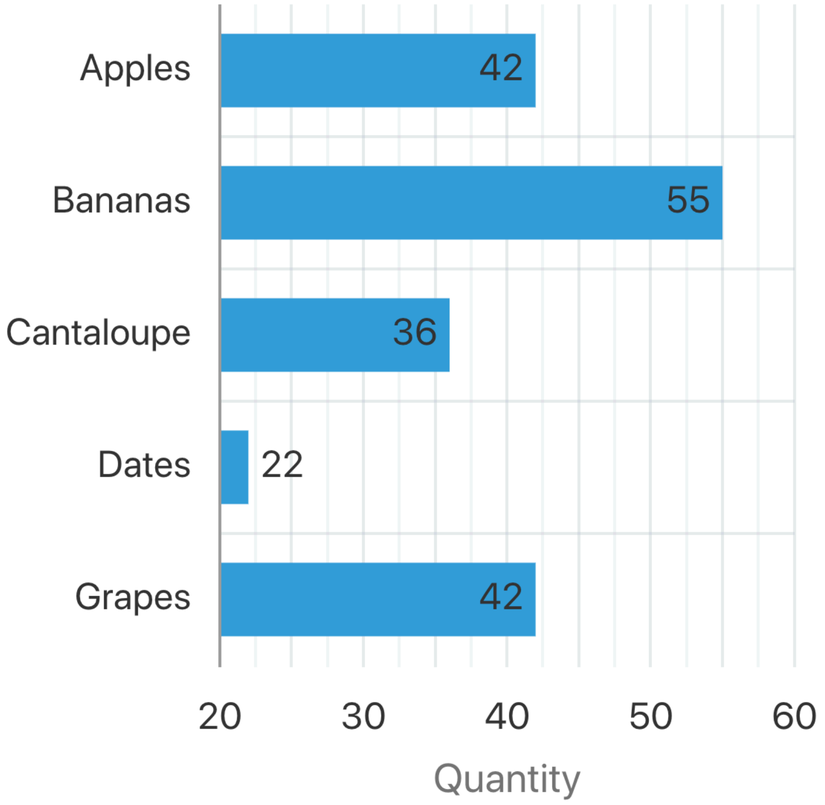
Region Axes

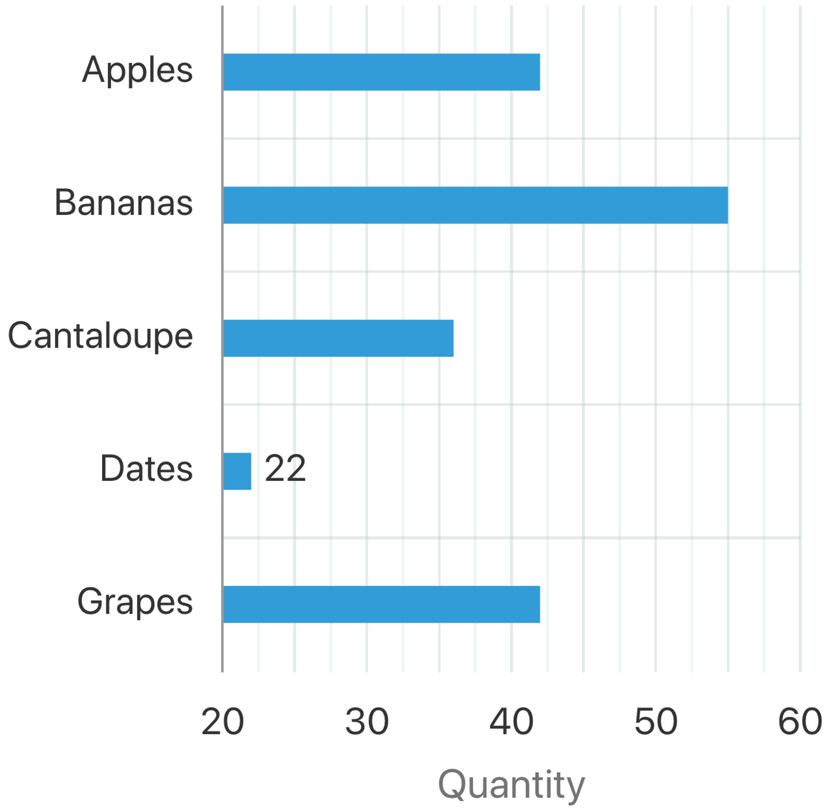

Title
Font Family
- Select -
Font Style
- Select -
Font Size
- Select -
Font Color
Value
Minimum
Maximum
Format
- Select -
Format Scaling
Automatic
Baseline Scaling
Zero
Scale
Linear
Step

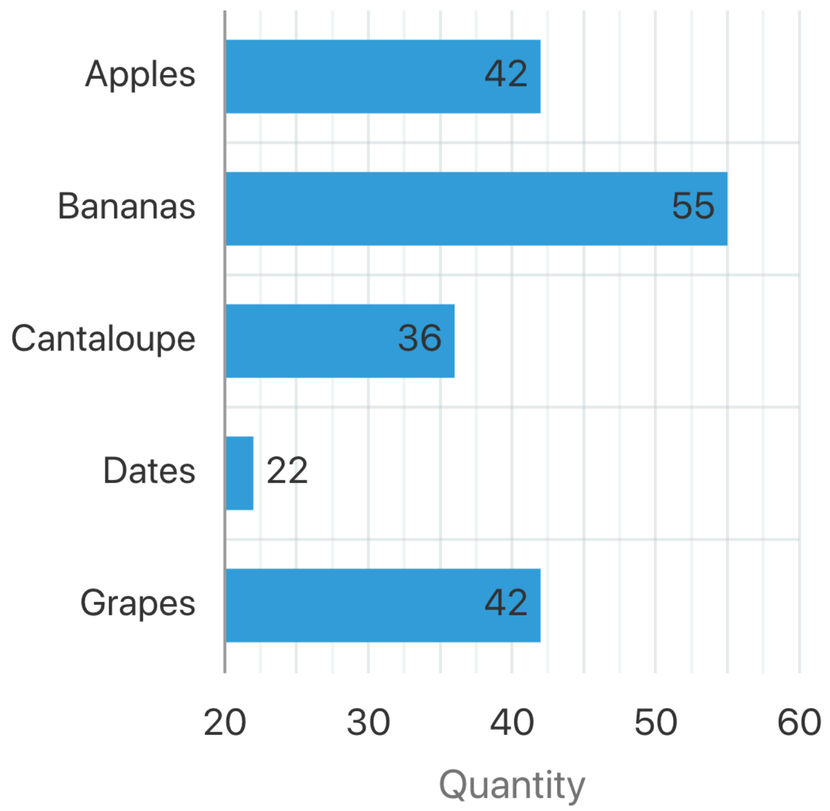

Apples
42
Bananas
55
Cantaloupe
36
Dates
22
Grapes
42
20
30
40
50
60
Quantity


Apples
42
Bananas
55
Cantaloupe
36
Dates
22
Grapes
42
20
30
40
50
60
Quantity


Apples
42
Bananas
55
Cantaloupe
36
Dates
22
Grapes
42
20
30
40
50
60
Quantity


Apples
42
Bananas
55
Cantaloupe
36
Dates
22
Grapes
42
20
30
40
50
60
Quantity


Apples
Bananas
Cantaloupe
Dates
22
Grapes
20
30
40
50
60
Quantity


Apples
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22
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42
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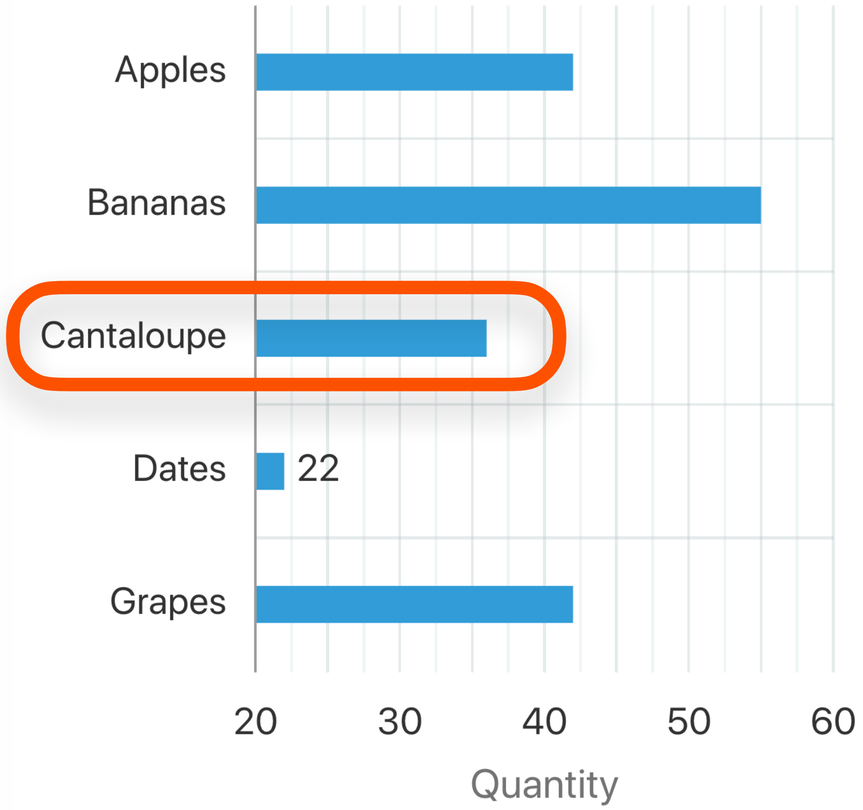
Apples
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Cantaloupe
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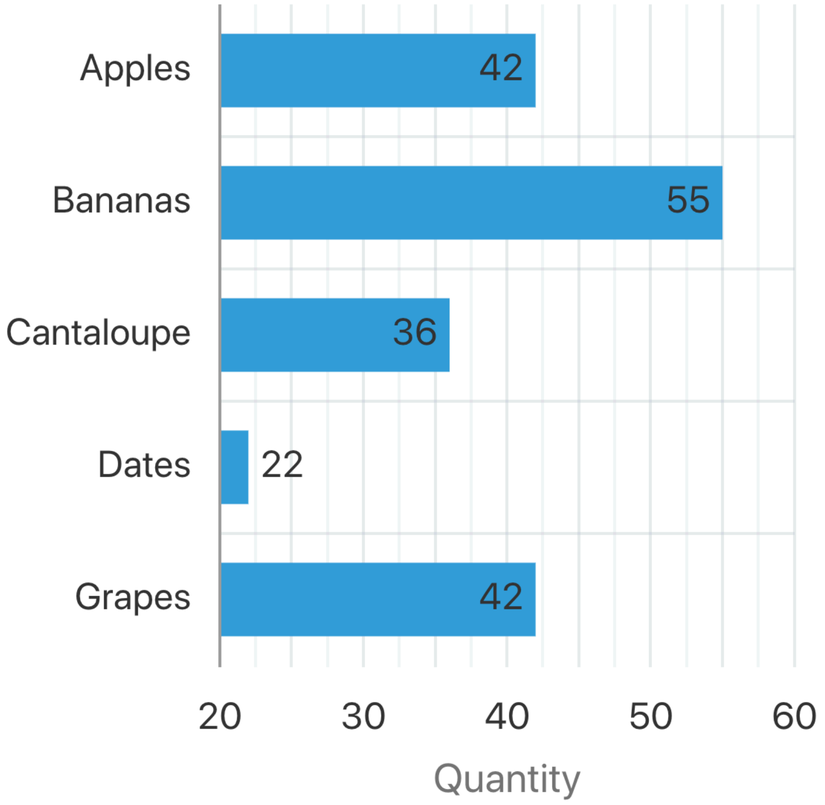
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Bananas
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Grapes
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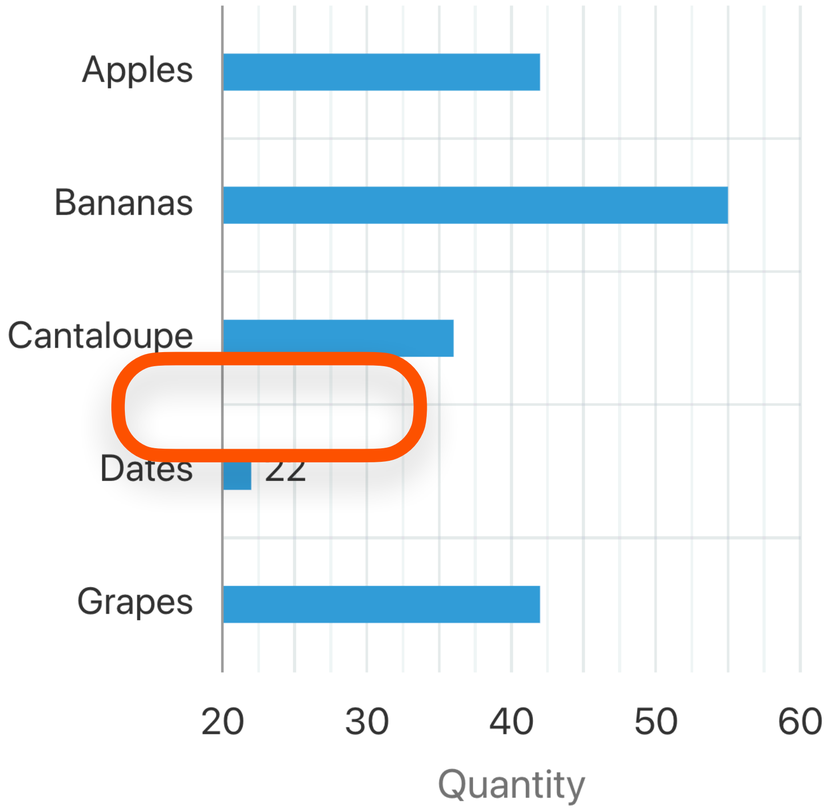
Apples
Bananas
Cantaloupe
Dates
22
Grapes
20
30
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50
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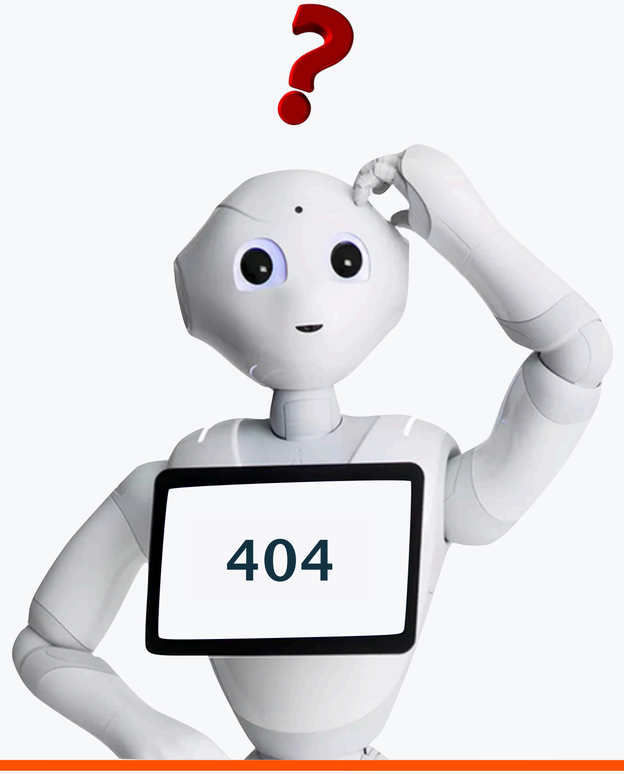
Quantity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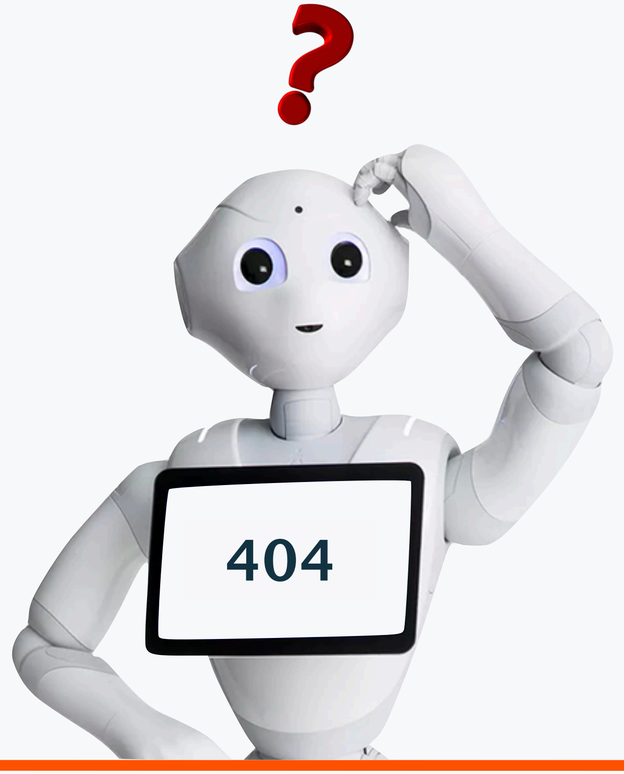
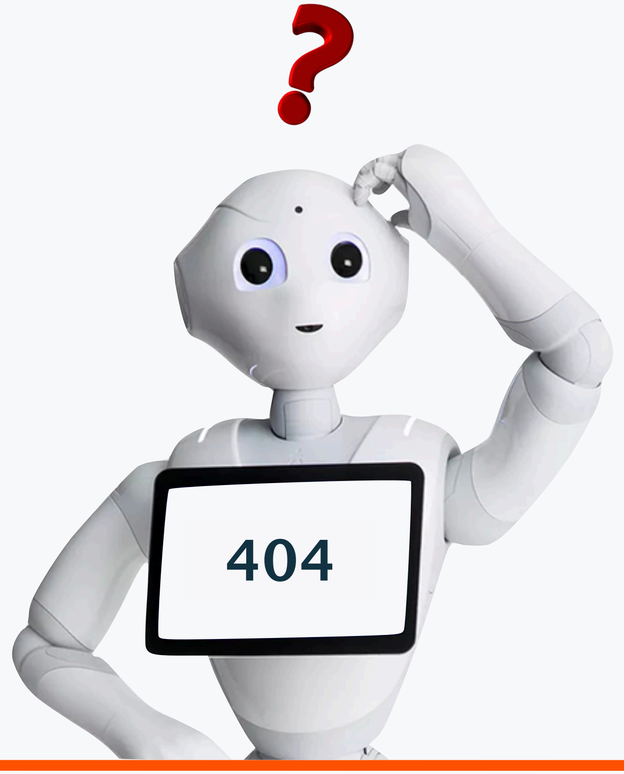
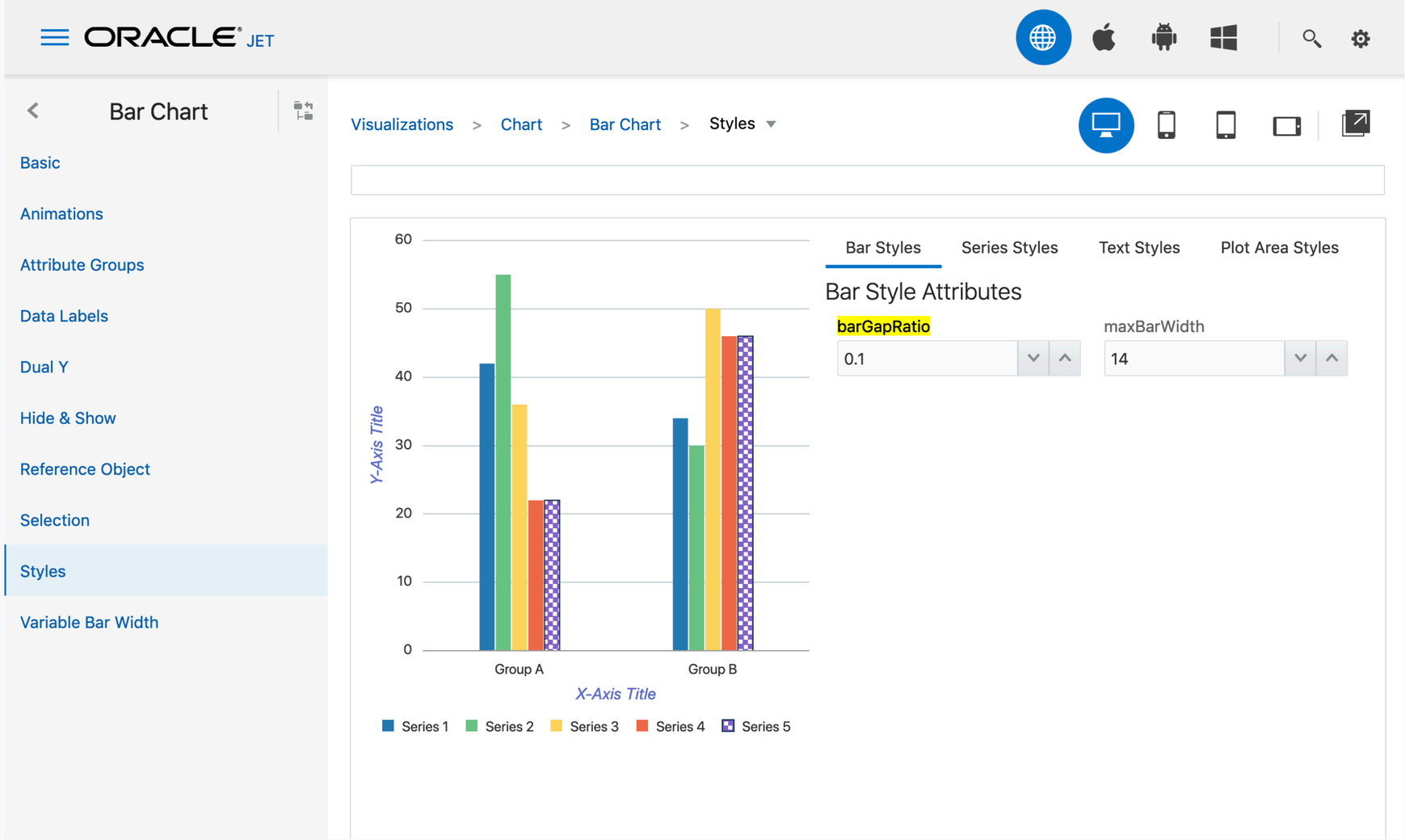


ORACLE® JET Developer Cookbook





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ORACLE JET

Bar Chart

- Basic
- Animations
- Attribute Groups
- Data Labels
- Dual Y
- Hide & Show
- Reference Object
- Selection
- Styles
- Variable Bar Width

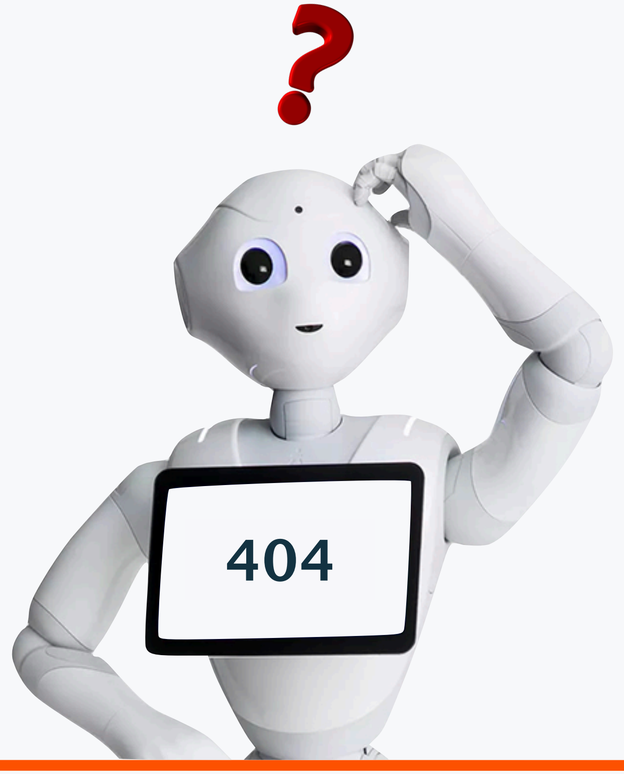
Visualizations > Chart > Bar Chart > Styles

More JS Doc Apply

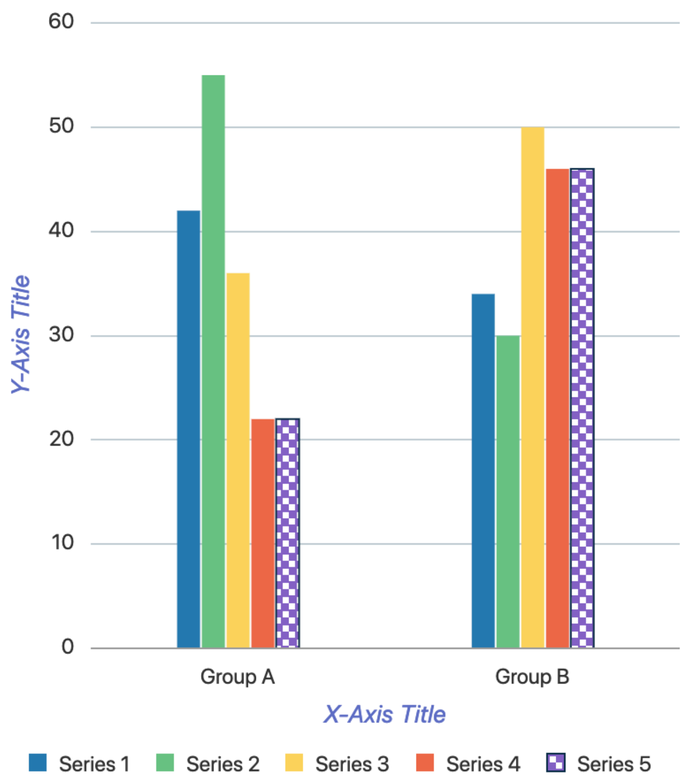
Styles

Info demo.html demo.js All

```
1
2  require(['ojs/ojcore', 'knockout', 'jquery', 'ojs/ojknockout', 'ojs/ojbutton', 'ojs/ojchart',
   'ojs/ojselectcombobox', 'ojs/ojnavigationlist', 'ojs/ojswitcher', 'ojs/ojinputtext',
   'ojs/ojinputnumber', 'ojs/ojtoolbar',
3           'jet-composites/demo-chart-orientation-control/loader', 'jet-composites/demo-chart-stack-
   control/loader'],
4  function(oj, ko, $)
5  {
6      function ChartModel() {
7
8          /* button and input variables */
9          var self = this;
10         self.jsonConverter = {format: function(value) {return JSON.stringify(value);},
11                               parse: function(value) {return JSON.parse(value);}};
12
13         self.currentTab = ko.observable('barStyles');
14
15         self.stackValue = ko.observable('off');
16         self.orientationValue = ko.observable('vertical');
17
18         self.barGapRatio = ko.observable(0.3);
19         self.maxBarWidth = ko.observable();
20
21         self.color1 = ko.observable('#8561C8');
22         self.borderColor1 = ko.observable('#0F3248');
23         self.pattern1 = ko.observable('smallChecker');
24
25         self.plotAreaColor = ko.observable('rgba(255, 255, 255, 0)');
26         self.plotAreaBorderColor = ko.observable('#000000');
27         self.plotAreaBorderWidth = ko.observable(0);
28
```



ORACLE JET Developer Cookbook



Bar Styles | Series Styles | Text Styles | Plot Area Styles

Bar Style Attributes

barGapRatio: 0.1

maxBarWidth: 14

Bar Style Attributes

barGapRatio: 0.1

maxBarWidth: 14

```
self.barGapRatio = ko.observable(0.3);
self.maxBarWidth = ko.observable();
```

```
1
2  require(['ojs/ojcore', 'knockout', 'jquery', 'ojs/ojknockout', 'ojs/ojbutton', 'ojs/ojchart',
   'ojs/ojselectcombobox', 'ojs/ojnavigationlist', 'ojs/ojswitcher', 'ojs/ojinputtext',
   'ojs/ojinputnumber', 'ojs/ojtoolbar',
3          'jet-composites/demo-chart-orientation-control/loader', 'jet-composites/demo-chart-stack-
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27         self.plotAreaBorderWidth = ko.observable(0);
```

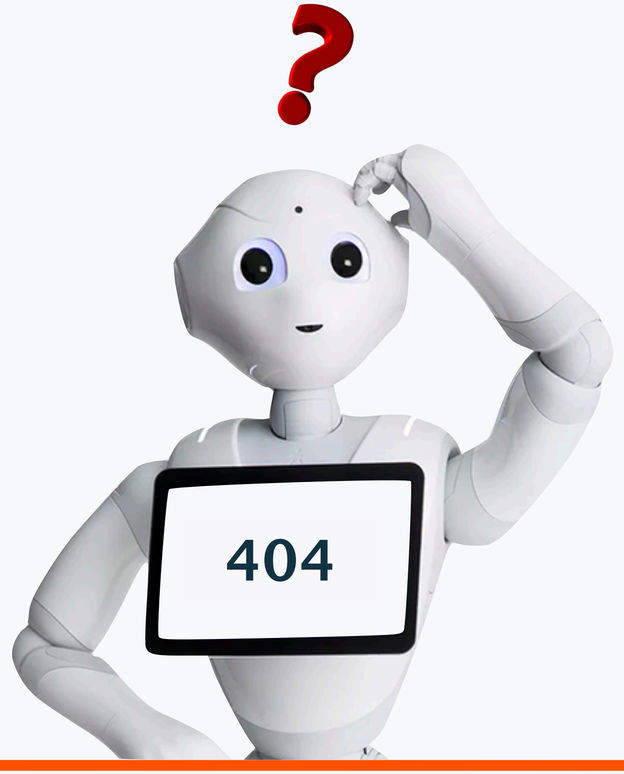

Index

Elements

- <oj-accordion>
- <oj-avatar>
- <oj-button>
- <oj-buttonset-many>
- <oj-buttonset-one>
- **<oj-chart>**
- <oj-checkboxset>
- <oj-collapsible>
- <oj-color-palette>
- <oj-color-spectrum>
- <oj-combobox-many>
- <oj-combobox-one>
- <oj-conveyor-belt>
- <oj-data-grid>
- <oj-date-picker>
- <oj-date-time-picker>
- <oj-defer>
- <oj-diagram>
- <oj-dialog>
- <oj-file-picker>
- <oj-film-strip>
- <oj-form-layout>
- <oj-gantt>
- <oj-indexer>
- <oj-input-date>
- <oj-input-date-time>
- <oj-input-number>
- <oj-input-password>
- <oj-input-text>
- <oj-input-time>
- <oj-label>

Element: <oj-chart>

QuickNav

Slots

- contextMenu

Attributes

- animation-on-data-change
- animation-on-display
- coordinate-system
- **data**
- data-cursor
- data-cursor-behavior
- **data-cursor-position**
- data-label
- **dnd**
- drag-mode
- drilling
- **groups**
- hidden-categories
- hide-and-show-behavior
- highlight-match
- highlighted-categories
- hover-behavior
- initial-zooming
- **legend**
- orientation
- other-threshold
- **overview**
- **pie-center**
- **plot-area**
- polar-grid-shape
- selection
- selection-mode
- **series**
- sorting
- split-dual-y
- splitter-position
- stack
- stack-label
- **style-defaults**
- time-axis-type
- **tooltip**
- touch-response
- track-resize
- **translations**
- type

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- ojDrill
- ojSelectInput
- ojViewportChange
- ojViewportChangeInput

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- getContextByNode
- getDataItem
- getGroup
- getGroupCount
- getLegend
- getPlotArea
- getProperty
- getSeries
- getSeriesCount
- getValuesAt
- getXAxis
- getY2Axis
- getYAxis
- refresh
- setProperties
- setProperty

ORACLE

Oracle JavaScript Extension Toolkit (JET) JavaScript API Reference

These pages document the API for all JET components and classes, as well as non-component styling information.

To see how each component is implemented, with both HTML markup and JavaScript code, please visit the Oracle JET Website under the *Use Cookbook* section.

`style-defaults.bar-gap-ratio` :number

Specifies the width of the bar group gap as a ratio of the group width. The valid value is a number from 0 to 1.

Default Value: `null`

Names

Item	Name
Property	`styleDefaults.barGapRatio`

`style-defaults.max-bar-width` :number

Specifies the maximum width of each bar in pixels.

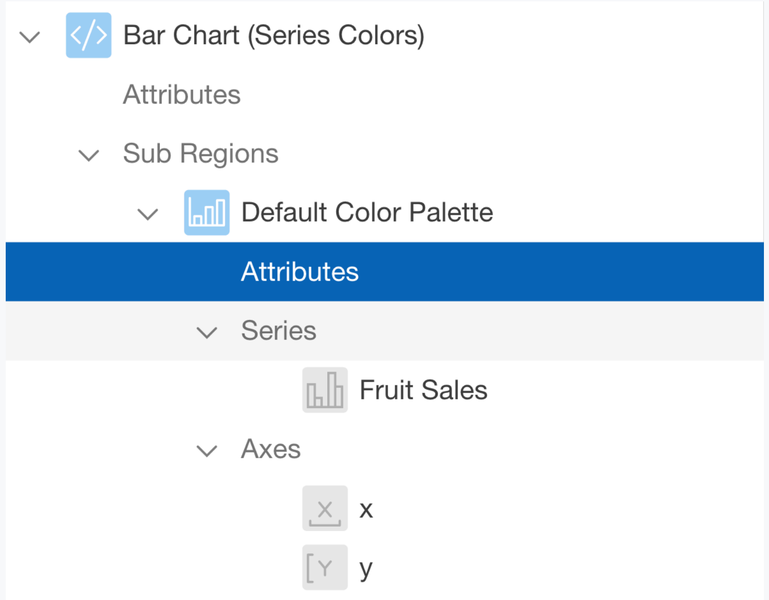
Default Value: `null`

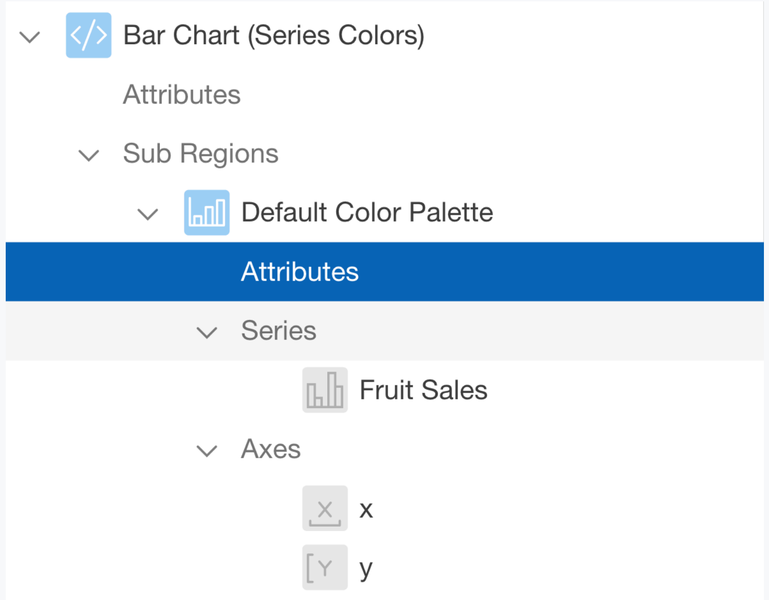
Names

Item	Name
Property	`styleDefaults.maxBarWidth`

Oracle JET options

Oracle APEX chart initialisation


Bar Chart (Series Colors)
Attributes
Sub Regions
Default Color Palette
Attributes
Series
Fruit Sales
Axes
x
y


Bar Chart (Series Colors)
Attributes
Sub Regions
Default Color Palette
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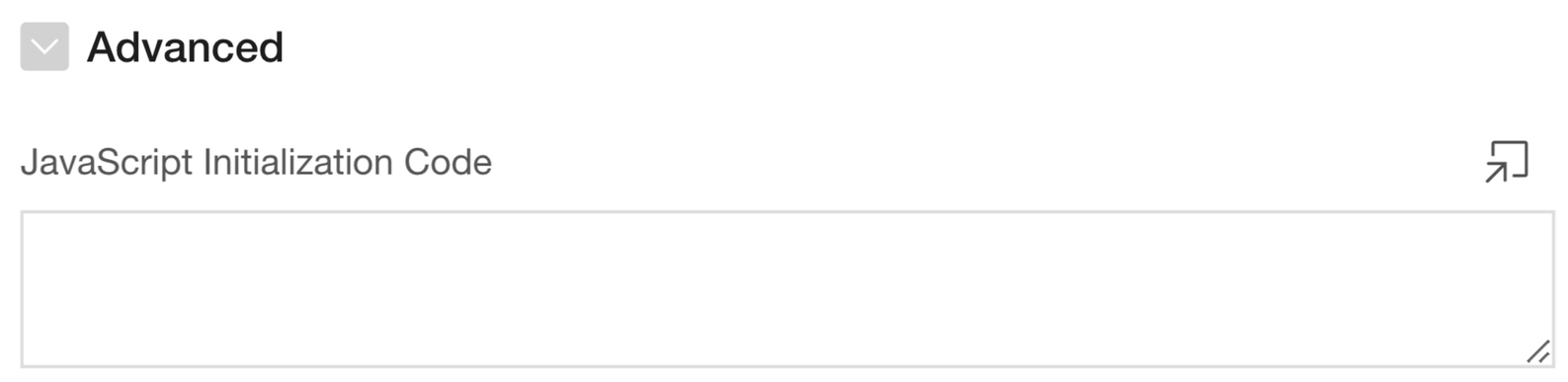
Series
Fruit Sales
Axes
x
y


Advanced
JavaScript Initialization Code

Code Editor - JavaScript Initialization Code

1

Cancel OK

Code Editor - JavaScript Initialization Code

```
1 function(options) {



    return options;
}
```

Cancel OK

Code Editor - JavaScript Initialization Code

```
function(options) {
    options.styleDefaults.barGapRatio = 0;
    options.styleDefaults.maxBarWidth = 20;

    return options;
}
```

Cancel OK

Code Editor - JavaScript Initialization Code

```
1 function(options) {
    options.styleDefaults.barGapRatio = 0;
    options.styleDefaults.maxBarWidth = 20;

    return options;
}
```

Item	Name
Property	styleDefaults.barGapRatio

Cancel OK

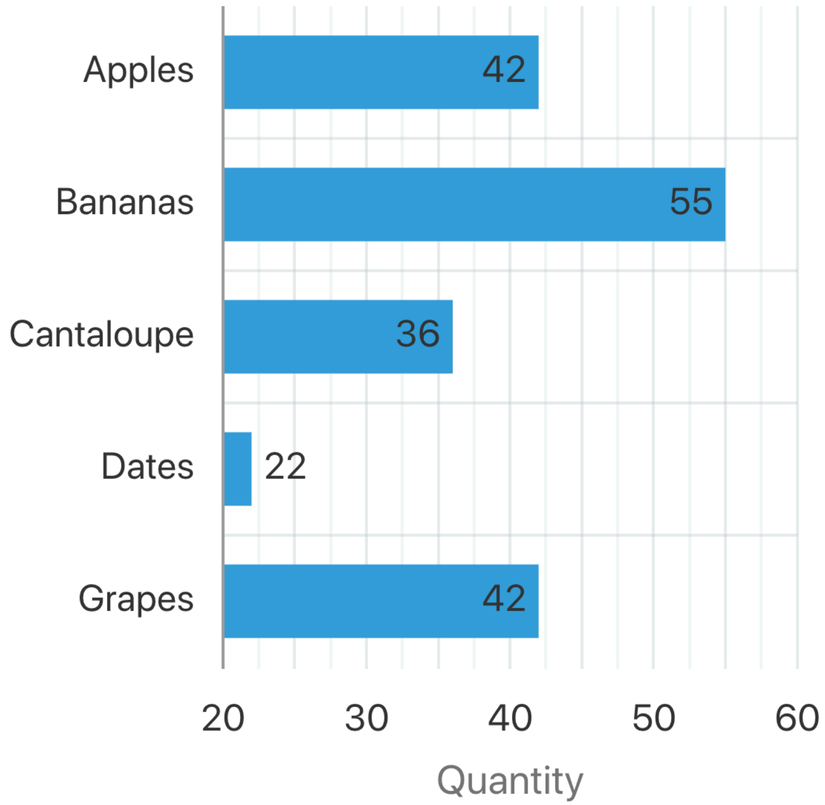
Code Editor - JavaScript Initialization Code

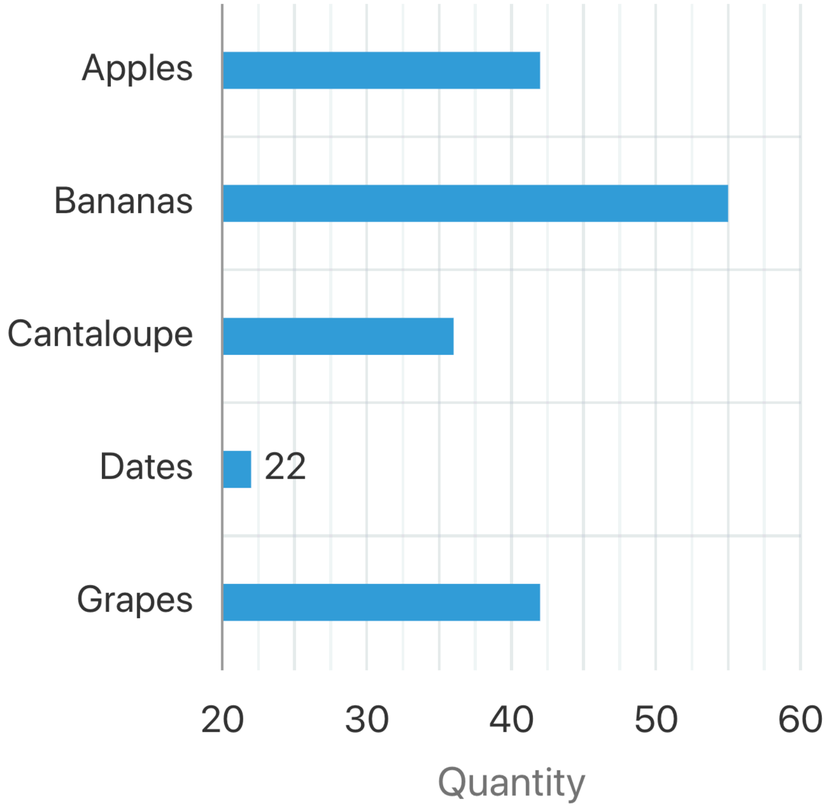
```
1 function(options) {
    options.styleDefaults.barGapRatio = 0;
    options.styleDefaults.maxBarWidth = 20;

    return options;
}
```

Item	Name
Property	styleDefaults.barGapRatio

Item	Name
Property	styleDefaults.maxBarWidth

Cancel OK


Apples
42
Bananas
55
Cantaloupe
36
Dates
22
Grapes
42
20
30
40
50
60
Quantity

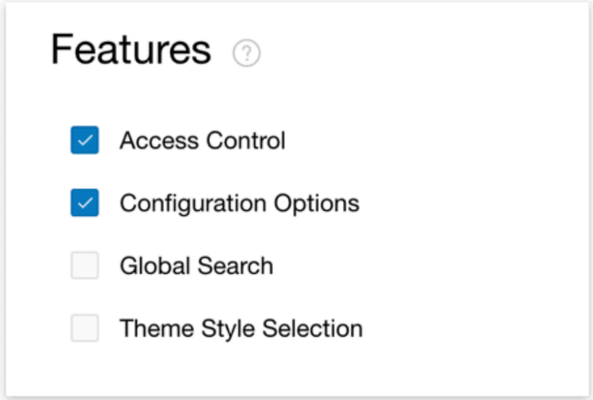

Apples
Bananas
Cantaloupe
Dates
22
Grapes
20
30
40
50
60
Quantity

Column Mapping

Series Name	- Select -
Label	PRODUCT_NAME
Value	QUANTITY
Z	- Select -
Custom Tooltip	- Select -
Legend Tooltip	- Select -
Label Tooltip	- Select -
Custom Column	- Select -

Z

Select the column name to be used for defining the z value on this chart. The z value defines the bubble radius for a bubble chart, the width of a box plot item, and the bar width for a bar or combination chart.




```sql
select first_name,
       last_name,
       email,
       city,
       country
from employees
```

```
function toggleRegionDisplay(refresh) {
  var display = $v(displayAsId);
  refresh = (refresh === false) ? false : true;
  if (display === 'CARDS') {
    $reportReg.hide();
    $gridReg.hide();
    showLeftColumn();
    $sort.closest(CONTAINER_SEL).show();
    if (refresh) {
      $cardsReg.trigger('apexrefresh');
    }
    $cardsReg.show();
```

No Code | Low Code | Full Control

Features
Access Control
Configuration Options
Global Search
Theme Style Selection
select first_name,
last_name,
email,
city,
country
from employees
function toggleRegionDisplay(refresh) {
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refresh = (refresh === false) ? false : true;
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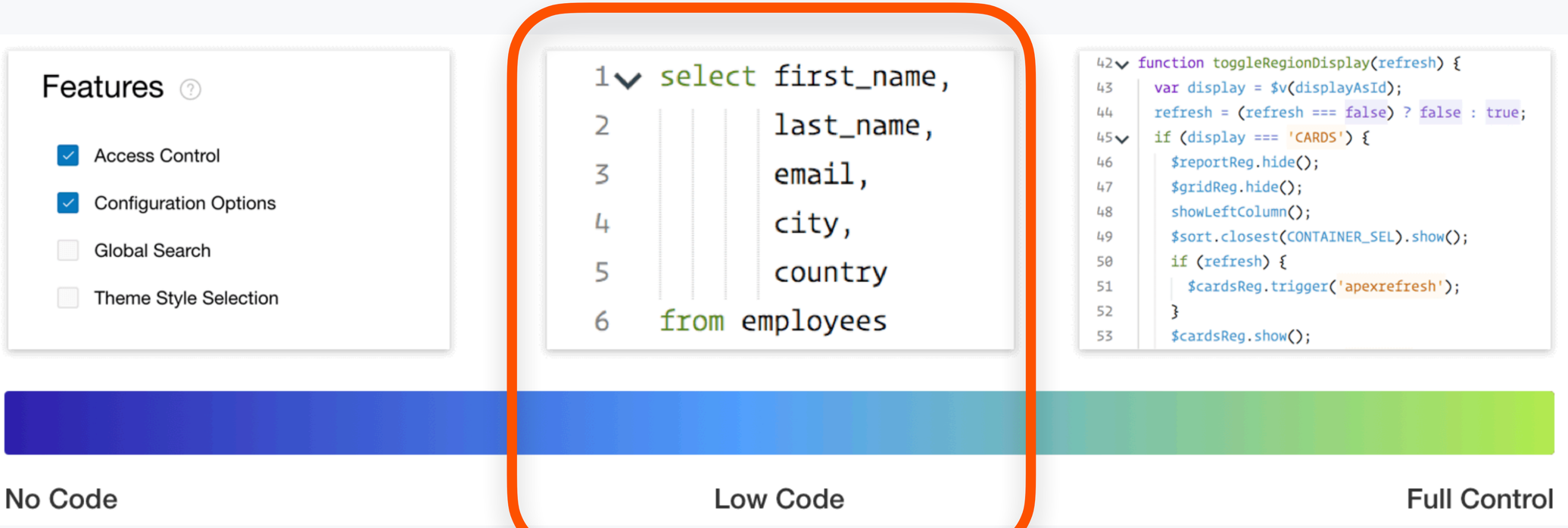
No Code
Low Code
Full Control


Features
Access Control
Configuration Options
Global Search
Theme Style Selection
1 select first_name,
2 last_name,
3 email,
4 city,
5 country
6 from employees
42 function toggleRegionDisplay(refresh) {
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49 $sort.closest(CONTAINER_SEL).show();
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53 $cardsReg.show();
No Code
Low Code
Full Control

Features

- [x] Access Control
- [x] Configuration Options
- [ ] Global Search
- [ ] Theme Style Selection

```
select first_name,
       last_name,
       email,
       city,
       country
from employees
```

```
function toggleRegionDisplay(refresh) {
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  refresh = (refresh === false) ? false : true;
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    $gridReg.hide();
    showLeftColumn();
    $sort.closest(CONTAINER_SEL).show();
    if (refresh) {
      $cardsReg.trigger('apexrefresh');
    }
    $cardsReg.show();
```
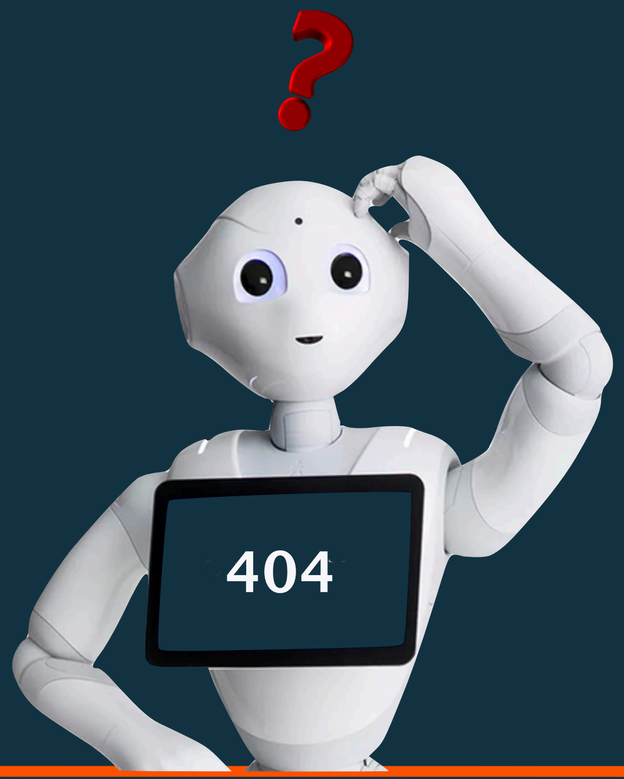
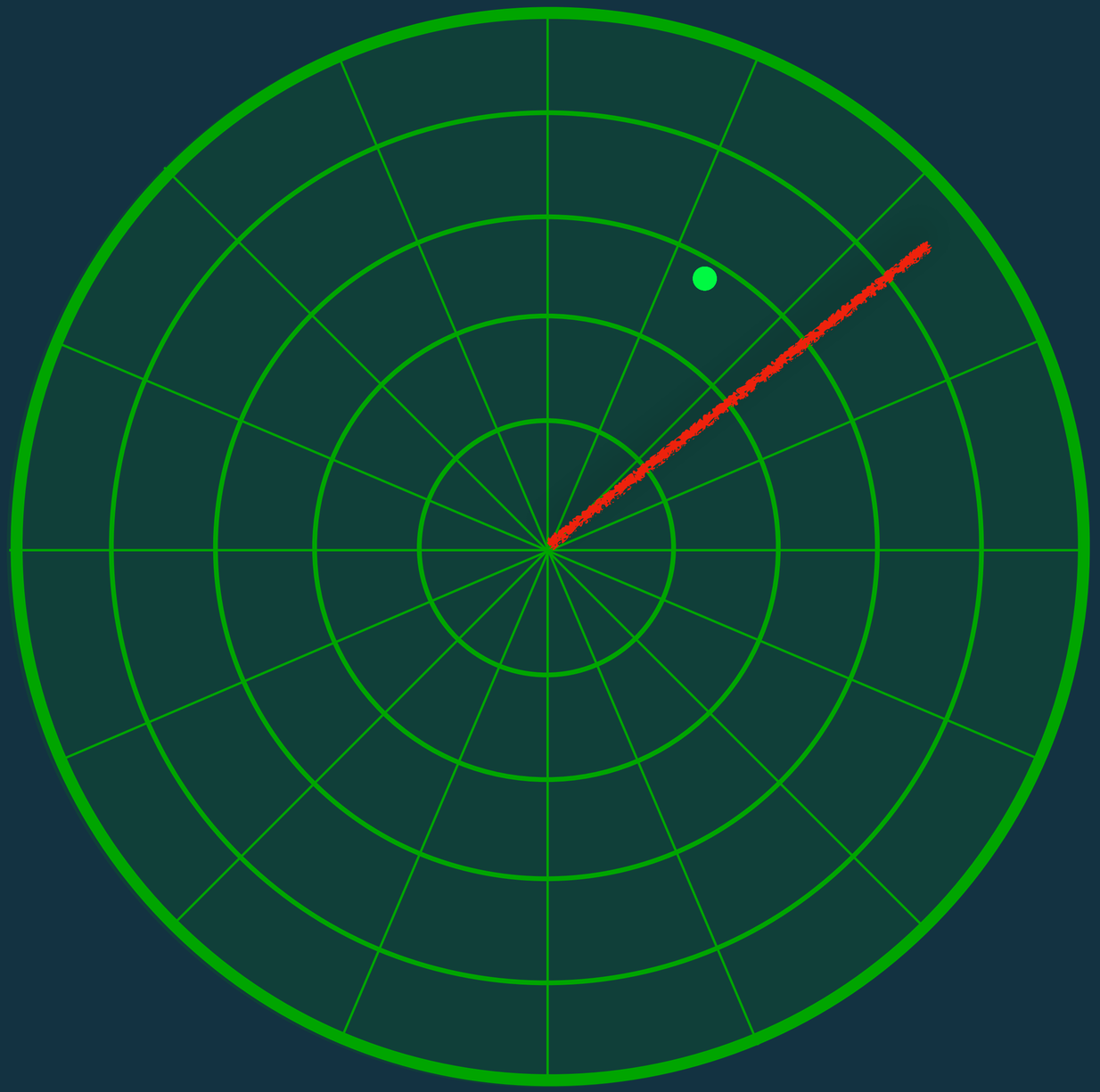
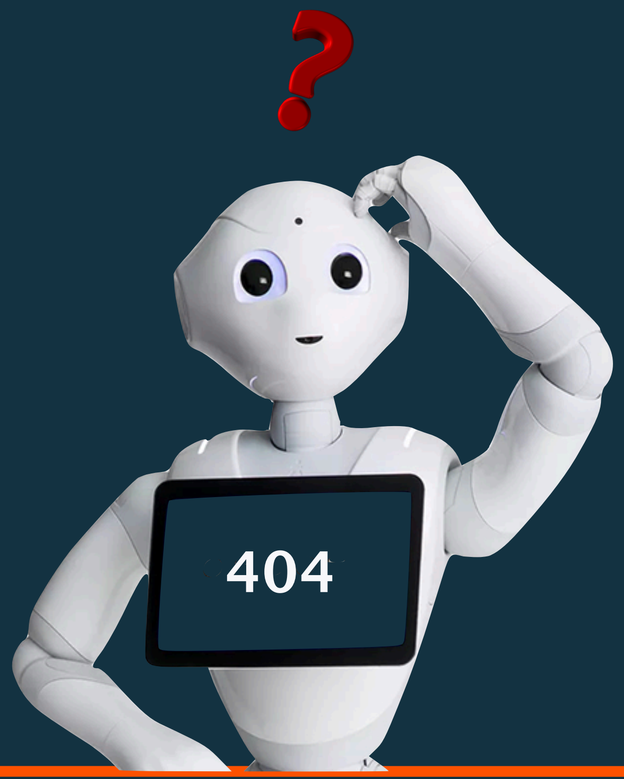
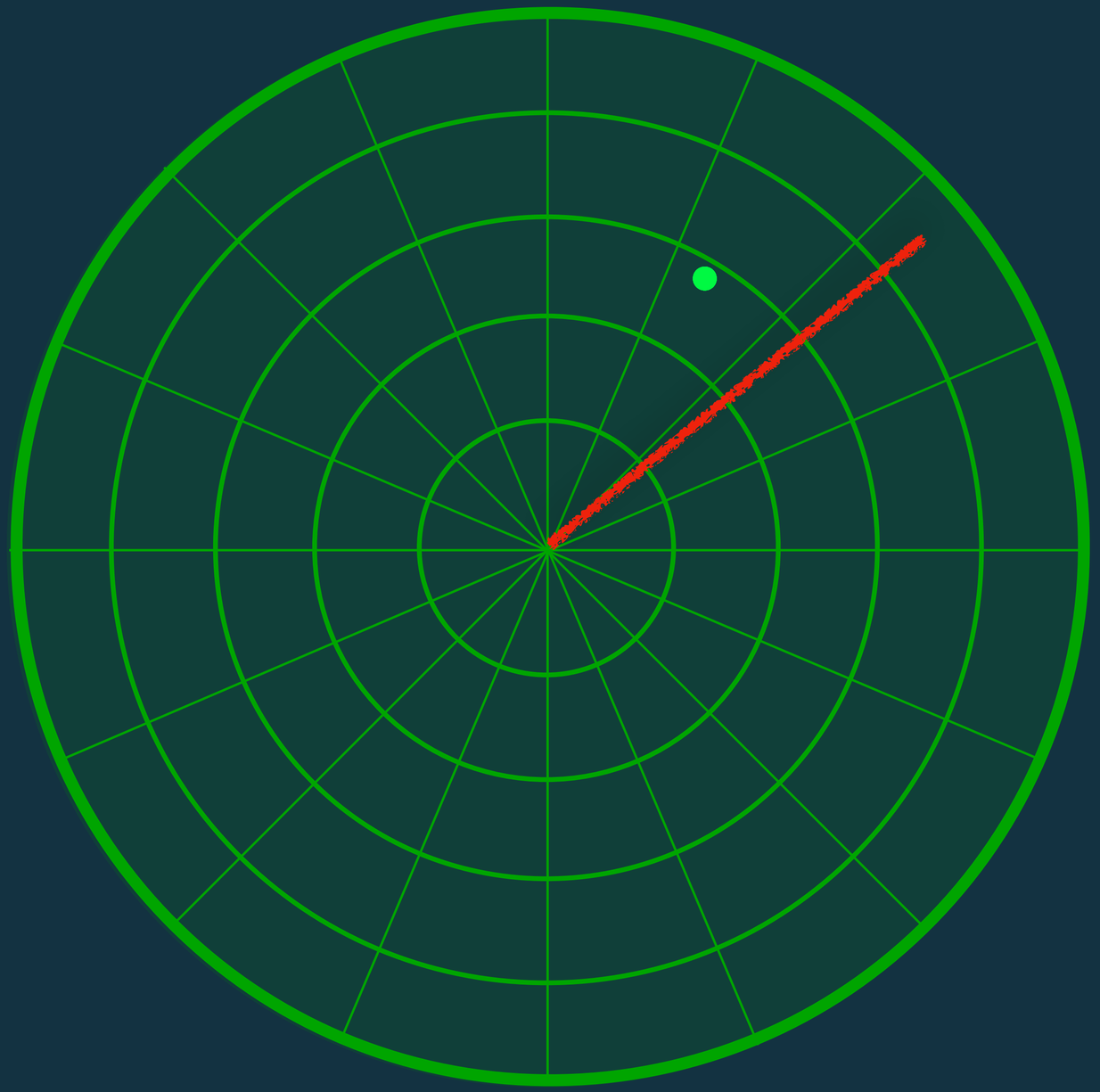
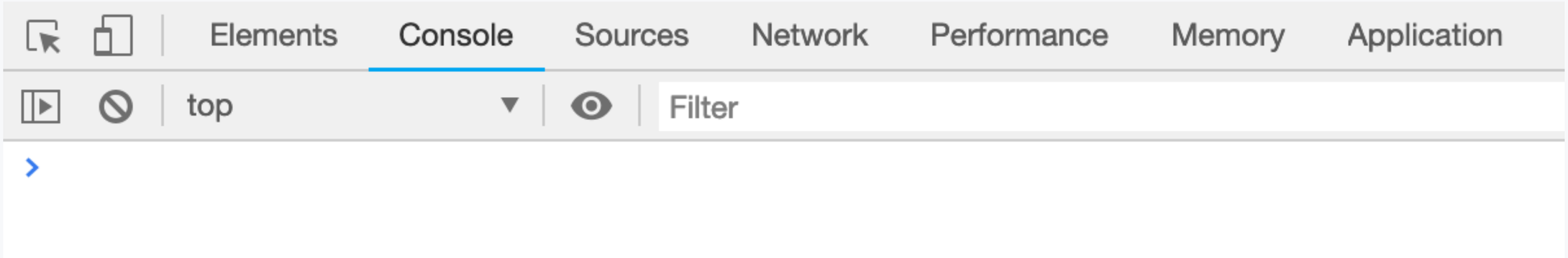

No Code | Low Code | Full Control


404




404




Elements
Console
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Network
Performance
Memory
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top
Filter

Elements Console Sources Network Performance Memory Application

top Filter

```
> apex.region('myChart')
```

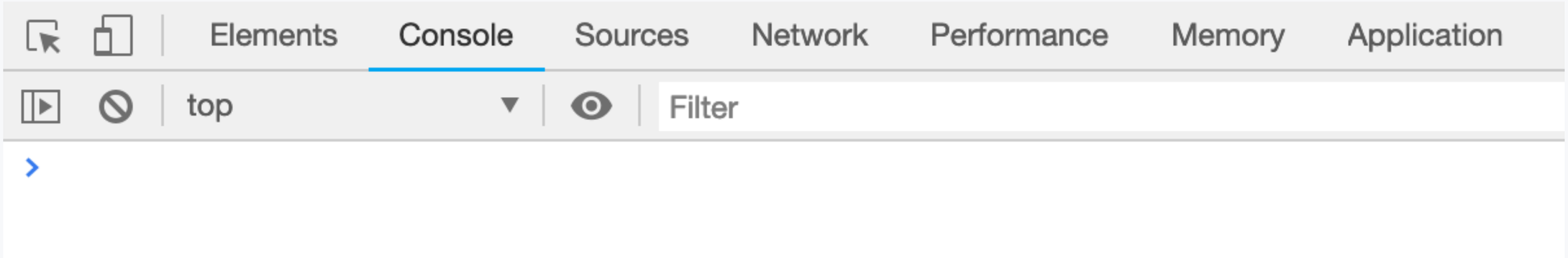
Elements Console Sources Network Performance Memory Application

top Filter

```
> apex.region('myChart')
```

```
▼<div class="col col-12 apex-col-auto">
  ▼<div class="t-Region i-h320 w500 t-Region--scrollBody lto29326432337157087322_0 js-apex-region" id="myChart" style="
  ">
    ▶<div class="t-Region-header">…</div>
    ▶<div class="t-Region-bodyWrap">…</div>
    </div>
  </div>
  ::after
</div>
```

Region Title


Elements
Console
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Filter

Elements Console Sources Network Performance Memory Application

top Filter

```
> apex.region('myChart').widget()
```

Elements | Console | Sources | Network | Performance | Memory | Application

top | Filter

```
> apex.region('myChart').widget()
```

```
▼<div class="t-Region-body">
  ▼<div id="myChart_jet" class="oj-dvtbase oj-chart oj-component-initnode" role="application" aria-label="Data Visualization: Chart: Chart Title: Chart Title" tabindex="0" aria-activedescendant="_dvtActiveElement658602566" style="width: 100%; max-width: 100%; min-width: 100px;">
    ▶<div class="oj-helper-detect-contraction">…</div>
    ▶<div class="oj-helper-detect-expansion">…</div>
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    ▶<svg width="100%" height="100%">…</svg>
   </div>
 </div>
```
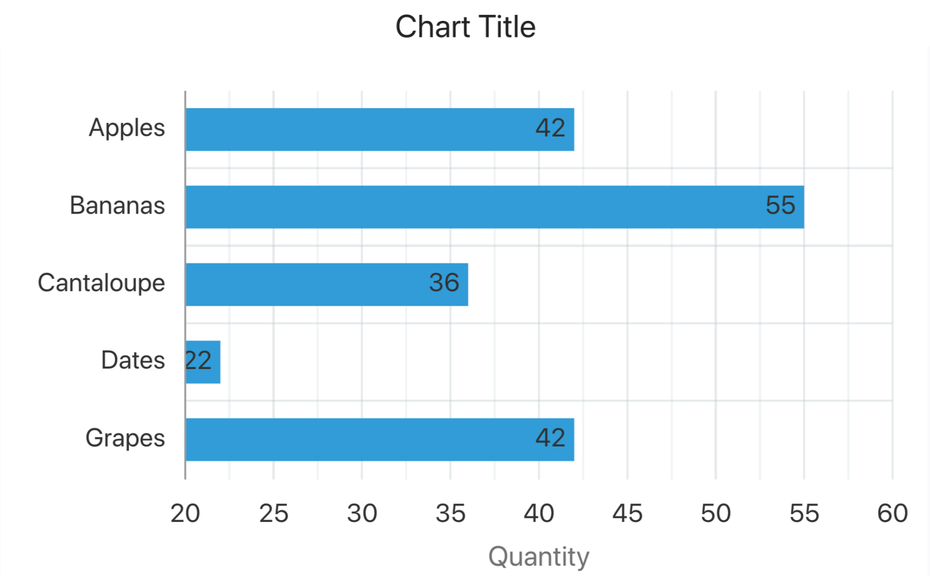

Region Title



Elements | Console | Sources | Network | Performance | Memory | Application

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```
> apex.region('myChart').widget()
```

```
▼<div class="t-Region-body">
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   </div>
  </div>
```
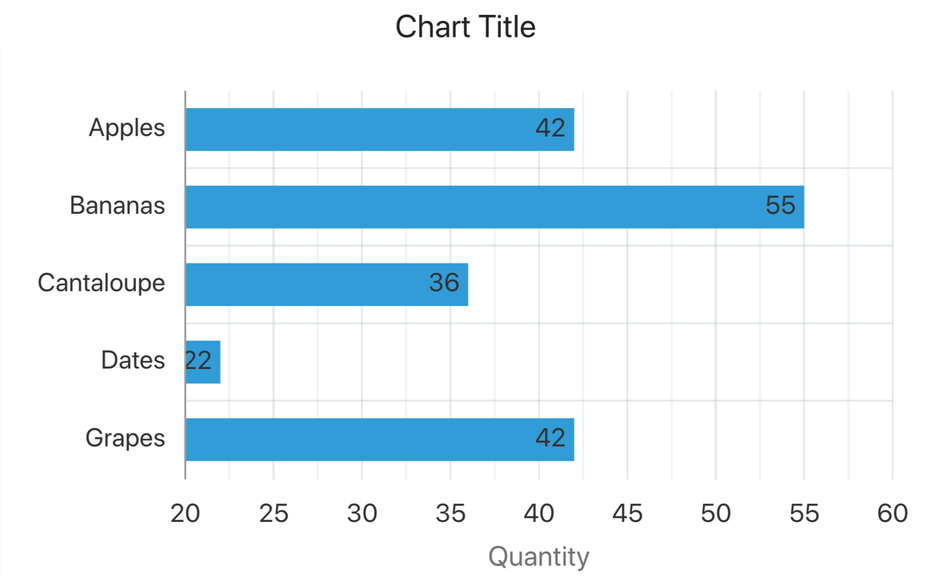

Region Title



ORACLE JET

```
▼<oj-chart id="comboChart" type="combo" selection-mode="multiple" series="[[comboSeriesValue]]" groups="[[comboGroupsValue]]"
animation-on-display="auto" animation-on-data-change="auto" orientation="[[orientationValue]]" stack="[[stackValue]]" hover-
behavior="dim" style="max-width:500px;width:100%;height:350px;" class="oj-dvtbase oj-chart oj-component-initnode oj-complete"
role="application" aria-label="Data Visualization: Chart" tabindex="0" aria-activedescendant="_dvtActiveElement879610093">
  ▶<div class="oj-helper-detect-contraction">…</div>
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   <div style="visibility:hidden;"></div>
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 </oj-chart>
```

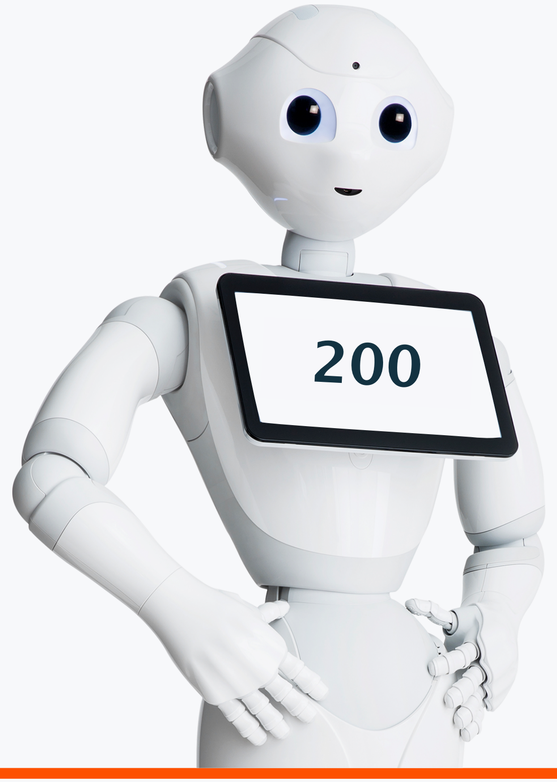

ORACLE JET Developer Cookbook

ORACLE JET

```
▼<oj-chart id="comboChart" type="combo" selection-mode="multiple" series="[[comboSeriesValue]]" groups="[[comboGroupsValue]]"
animation-on-display="auto" animation-on-data-change="auto" orientation="[[orientationValue]]" stack="[[stackValue]]" hover-
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role="application" aria-label="Data Visualization: Chart" tabindex="0" aria-activedescendant="_dvtActiveElement879610093">
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  ▶<div class="oj-helper-detect-expansion">…</div>
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 </oj-chart>
```
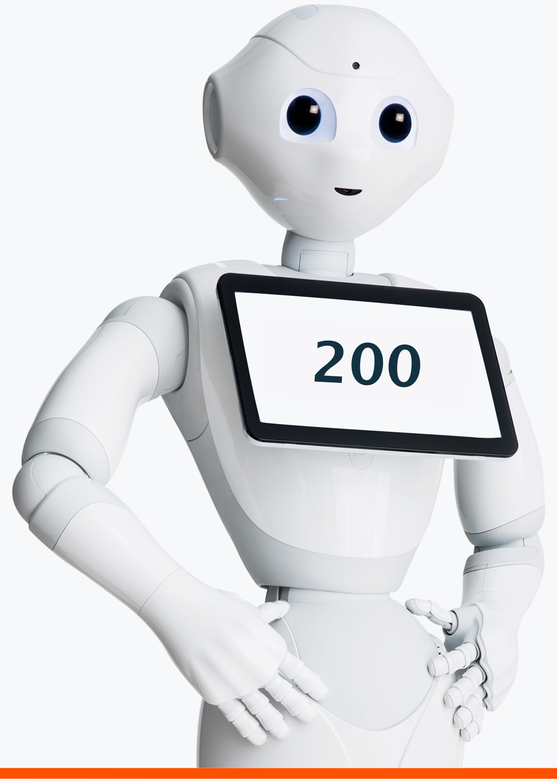
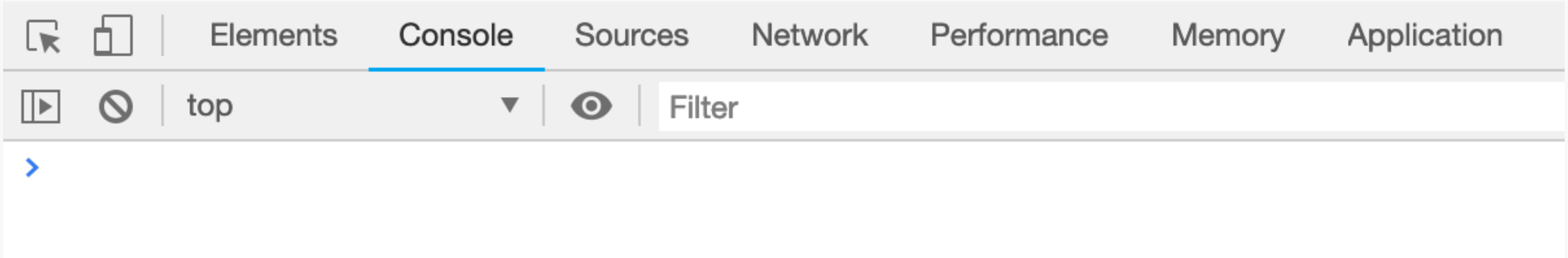



ORACLE JET Developer Cookbook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Elements | Console | Sources | Network | Performance | Memory | Application

top | Filter

```
> apex.region('myChart').widget().ojChart()
```

```
▼<div class="t-Region-body">
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    ▶<div class="oj-helper-detect-expansion">…</div>
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    ▶<svg width="100%" height="100%">…</svg>
   </div>
 </div>
```
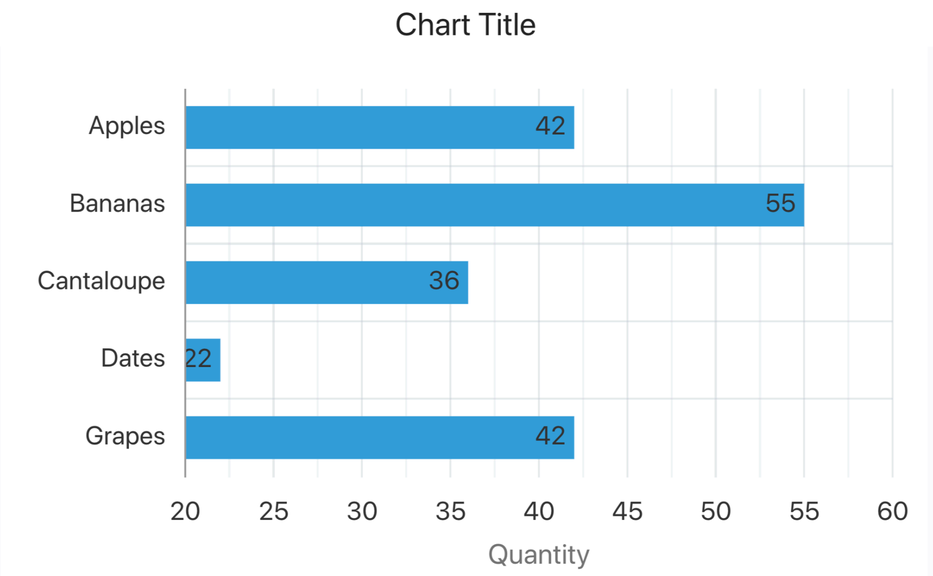

Region Title



Elements | Console | Sources | Network | Performance | Memory | Application

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```
> apex.region('myChart').widget().ojChart()
```

```
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    ▶<div class="oj-helper-detect-expansion">…</div>
     <div style="visibility:hidden;"></div>
    ▶<svg width="100%" height="100%">…</svg>
   </div>
 </div>
```
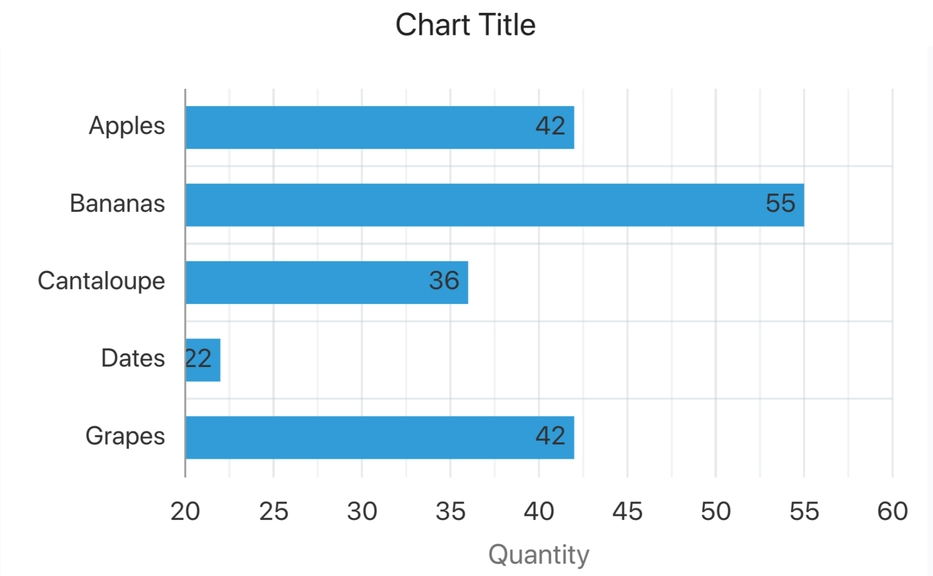
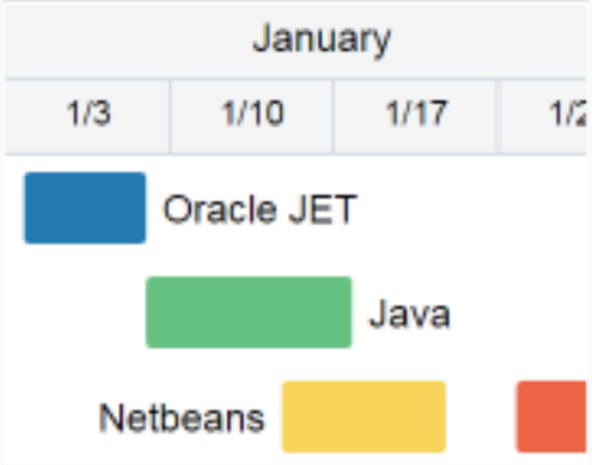

Region Title



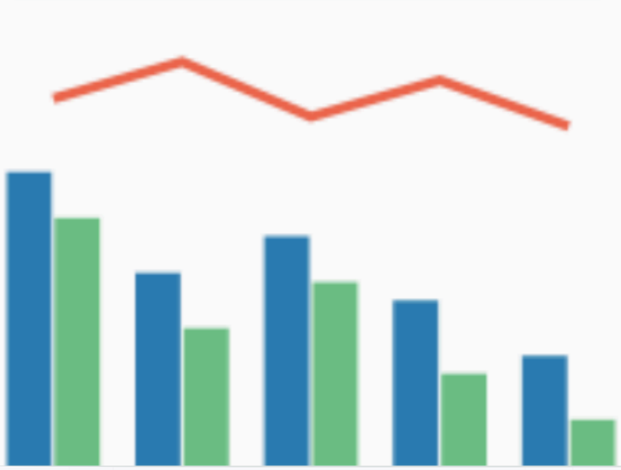
ojGantt

Gantt



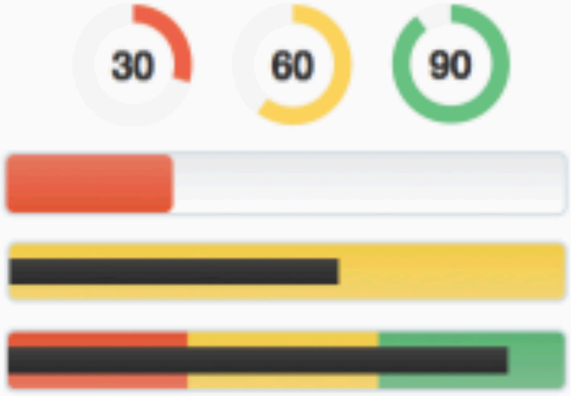
ojChart

Chart



ojStatusMeterGauge

Status Meter Gauge



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```
> apex.region('myChart').widget().ojChart()
```

Elements | Console | Sources | Network | Performance | Memory | Application

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```
> apex.region('myChart').widget().ojChart('option')
```


```
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  disabled: false
  ▶drill: ƒ (t,i)
  ▶footnote: {style: "font-family:-apple-system, system-ui, 'Segoe UI', … sans-serif;font-size:13px;color:rgb(51, 51, 51);"}
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  ▶translations: {labelScalingSuffixThousand: "K", labelScalingSuffixMillion: "M", labelScalingSuffixBillion: "B", labelScalingSuffixTrillion: "T", labelScalingSuffixQuadrillion: "Q", …}
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  ▶_widgetConstructor: ƒ ()
  _width: 1566
  ▶__proto__: Object
```

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```
> apex.region('myChart').widget().ojChart('option')
```


```
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  ▶__proto__: Object
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```
> apex.region('myChart').widget().ojChart('option')
```

```
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  disabled: false
  ▶drill: ƒ (t,i)
  ▶footer: {style: "font-family:-apple-system, system-ui, 'Segoe UI', … sans-serif;font-size:13px;color:rgb(51, 51, 51);"}
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  ▶pieCenter: {labelStyle: "fo
  rootAttributes: null
  selectInput: null
  ▶selection: [{…}]
  selectionMode: "single"
  ▶series: [{…}]
  stack: "off"
  ▶styleDefaults: {dataLabelSty
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```

```
stack: "off"
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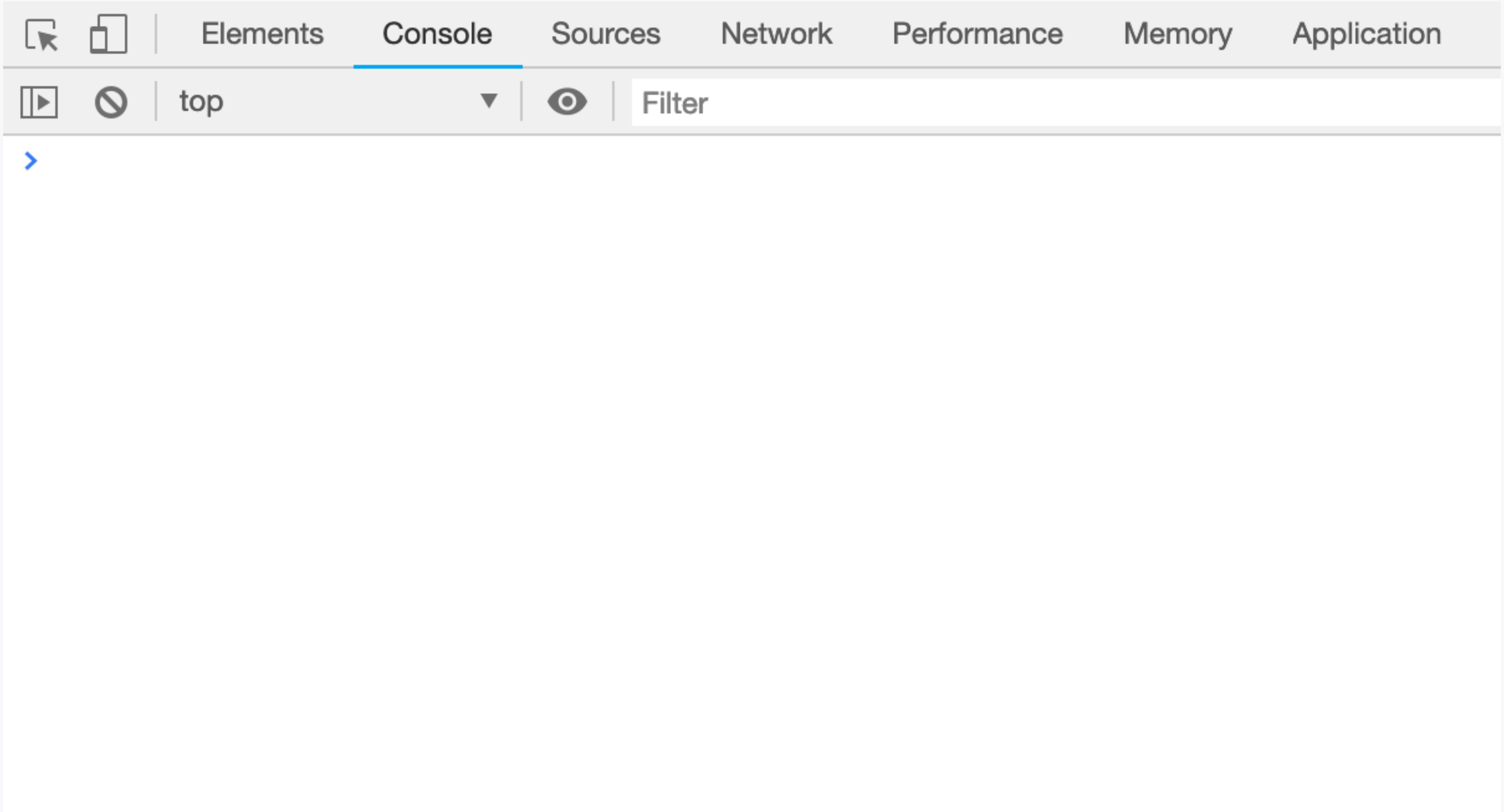
Elements
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Elements Console Sources Network Performance Memory Application

top Filter

```
> options = apex.region('myChart').widget().ojChart('option');
```

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```
> options = apex.region('myChart').widget().ojChart('option');
  options.styleDefaults.barGapRatio = 0;
  options.styleDefaults.maxBarWidth = 20;
```

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top Filter

```
> options = apex.region('myChart').widget().ojChart('option');
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```
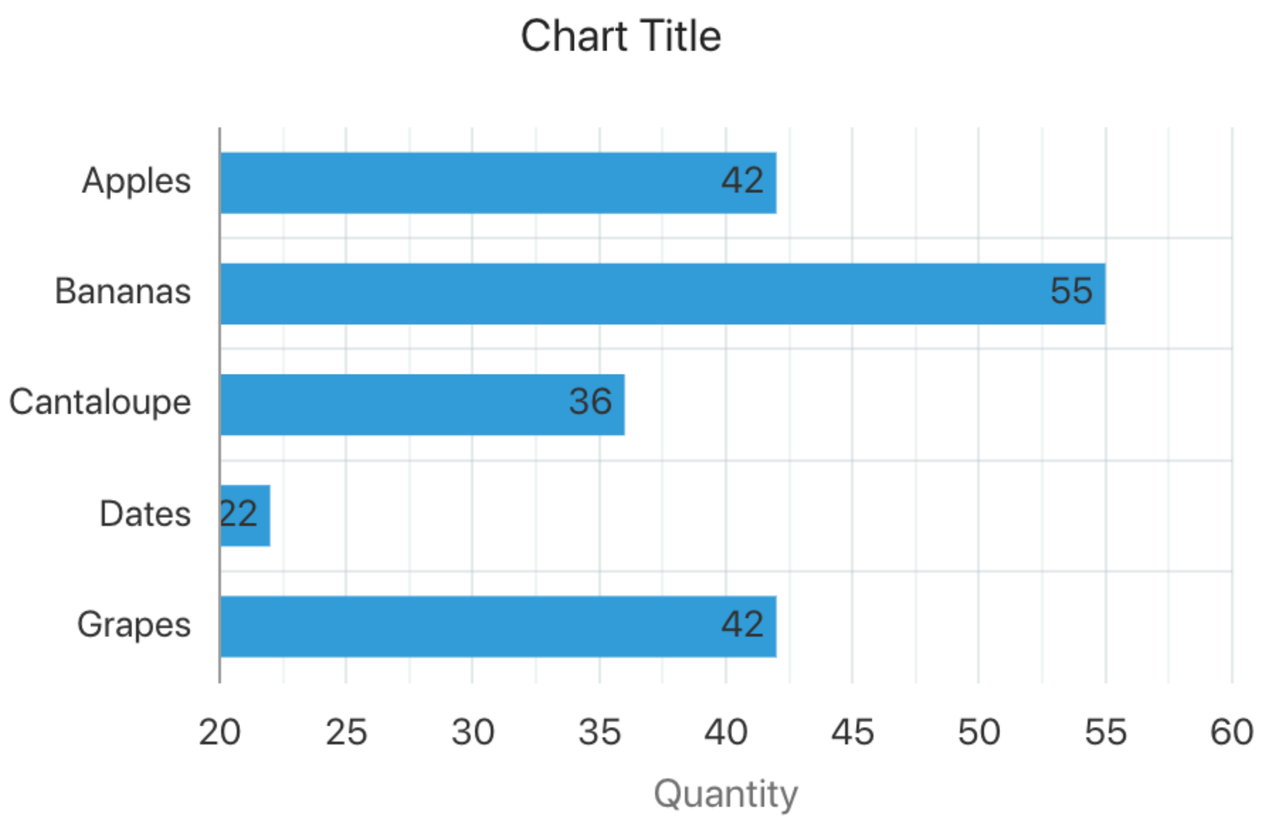
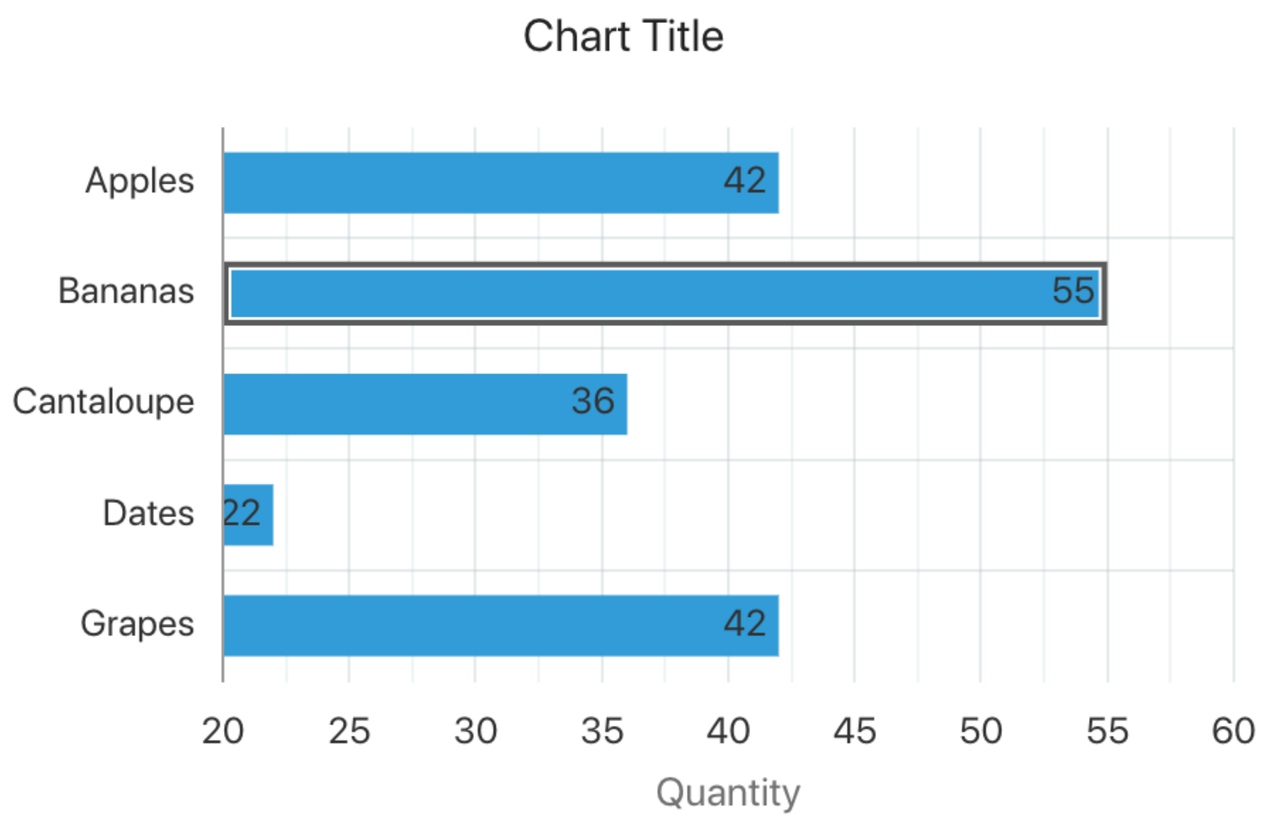
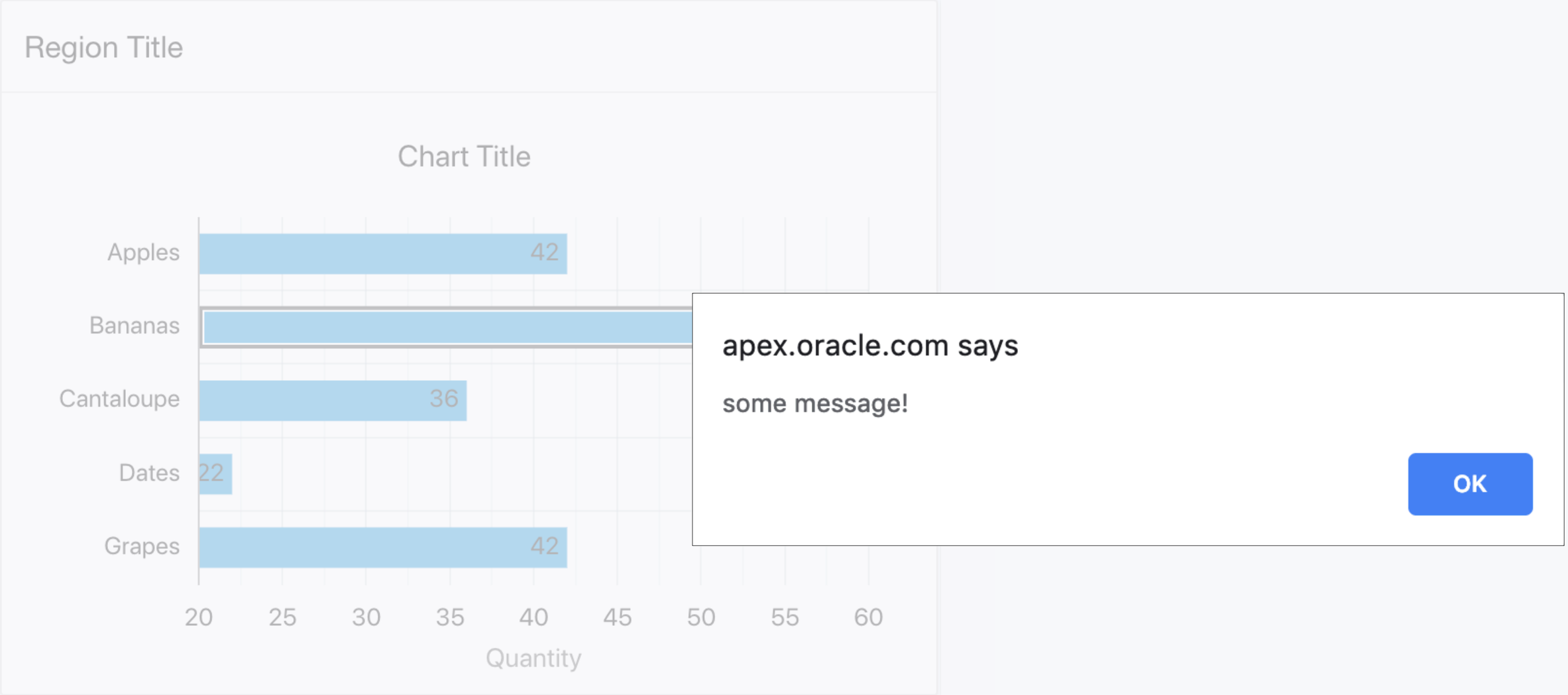
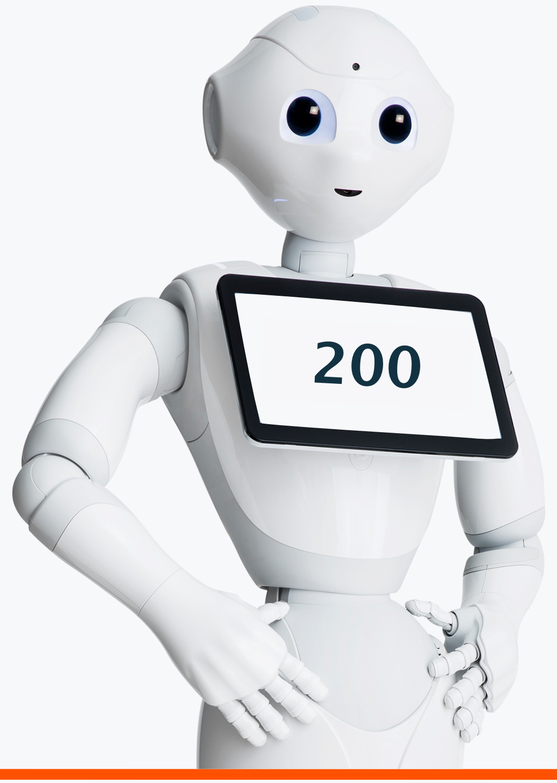

Region Title



Region Title




Region Title
Chart Title
Apples
42
Bananas
Cantaloupe
36
Dates
22
Grapes
42
20
25
30
35
40
45
50
55
60
Quantity
apex.oracle.com says
some message!
OK



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- <oj-accordion>
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- <oj-buttonset-one>
- **<oj-chart>**
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- <oj-collapsible>
- <oj-color-palette>
- <oj-color-spectrum>
- <oj-combobox-many>
- <oj-combobox-one>
- <oj-conveyor-belt>
- <oj-data-grid>
- <oj-date-picker>
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- <oj-indexer>
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- <oj-input-number>
- <oj-input-password>
- <oj-input-text>
- <oj-input-time>
- <oj-label>

Element: <oj-chart>

`optionChange`

Fired whenever a supported component option changes, whether due to user interaction or programmatic intervention. If the new value is the same as the previous value, no event will be fired.

Properties:

Name	Type	Description
`data`	Object	event payload ***Properties*** Name / Type / Description `option` / string / the name of the option that changed, i.e. "value" `previousValue` / Object / an Object holding the previous value of the option `value` / Object / an Object holding the current value of the option
`ui.optionMetadata`	Object	information about the option that is changing ***Properties***

Name	Type	Description
`writeback`	string	`"shouldWrite"` or `"shouldNotWrite"`. For use by the JET writeback mechanism.
`endGroup`	string	the end group of a marquee selection on a chart with categorical axis
`startGroup`	string	the start group of a marquee selection on a chart with categorical axis
`xMax`	number	the maximum x value of a marquee selection
`xMin`	number	the minimum x value of a marquee selection
`yMax`	number	the maximum y value of a marquee selection
`yMin`	number	the minimum y value of a marquee selection
`component`	Object	the widget constructor for the chart. The 'component' is bound to the associated jQuery element so can be called directly as a function
`selectionData`	Array	an array of objects with data, seriesData and groupData corresponding to the selected items in ui.value

Source: src/main/javascript/oracle/oj/ojchart/ojchart.js, line 176

Examples

Initialize the component with the `optionChange` *callback:*

```
$(".selector").ojChart({
  'optionChange': function (event, data) {}
});
```

Bind an event listener to the `ojoptionchange` *event:*

```
$(".selector").on({
  'ojoptionchange': function (event, data) {
      window.console.log("option changing is: " + data['option']);
  };
});
```

ORACLE

Oracle JavaScript Extension Toolkit (JET) JavaScript API Reference

These pages document the API for all JET components and classes, as well as non-component styling information.

To see how each component is implemented, with both HTML markup and JavaScript code, please visit the Oracle JET Website under the *Use Cookbook* section.

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Element: <oj-chart>

optionChange

Fired whenever a supported component option changes, whether due to user interaction or programmatic intervention. If the new value is the same as the previous value, no event will be fired.

Properties:

xMax	number	the maximum x value of a marquee selection
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component	Object	the widget constructor for the chart. The 'component' is bound to the associated jQuery element so can be called directly as a function
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Source: src/main/javascript/oracle/oj/ojchart/ojchart.js, line 176

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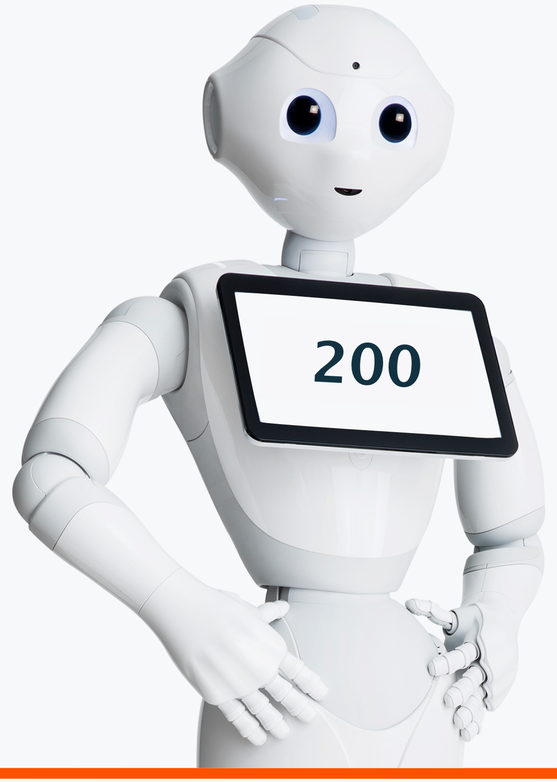

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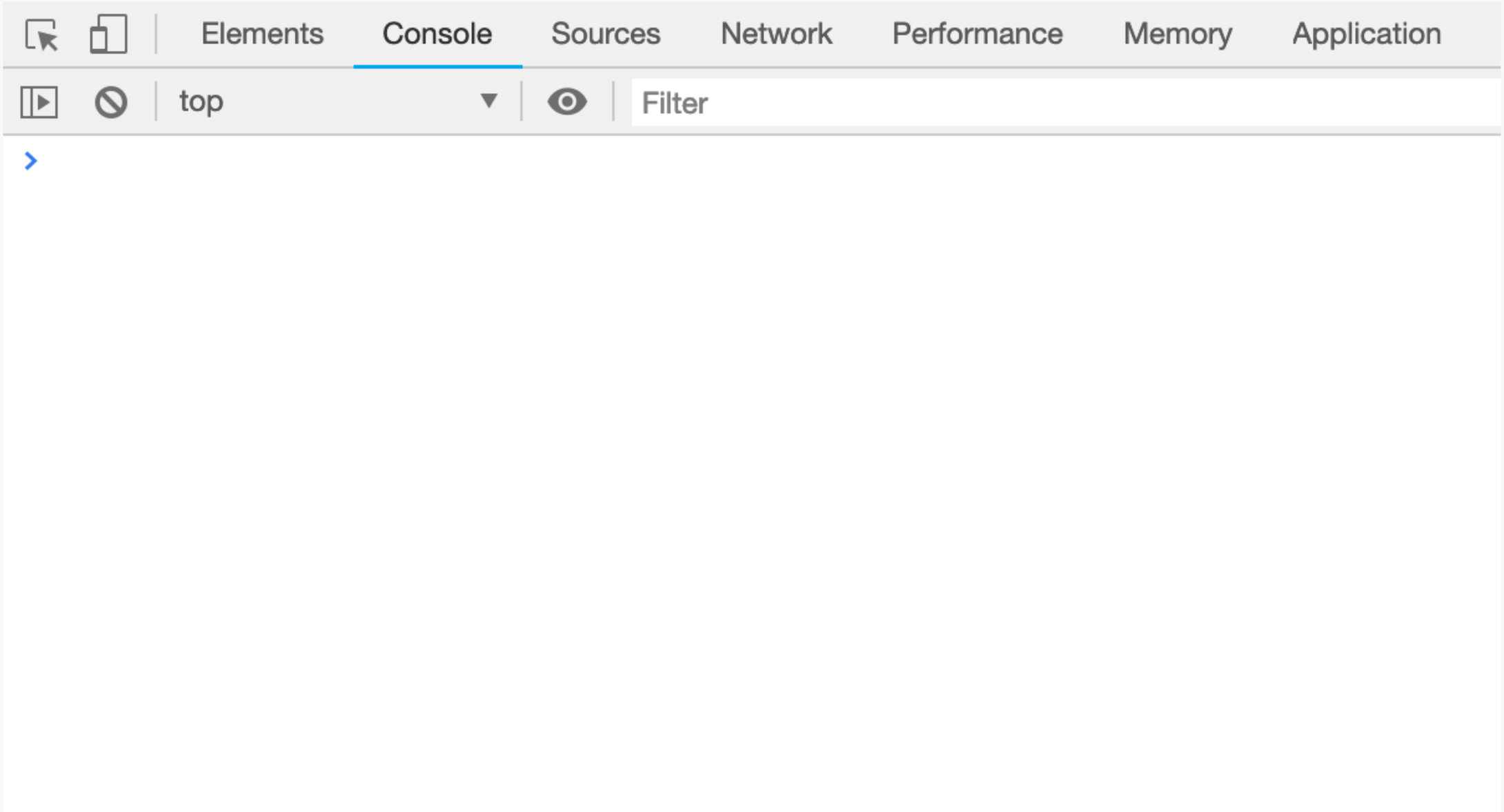

Elements
Console
Sources
Network
Performance
Memory
Application
top
Filter

Elements Console Sources Network Performance Memory Application

top Filter

```
> apex.region('myChart').widget().on('ojoptionchange',

  });
```

Elements Console Sources Network Performance Memory Application

top Filter

```
> apex.region('myChart').widget().on('ojoptionchange',
      (event, object) => {




      });
  });
```

Elements Console Sources Network Performance Memory Application

top Filter

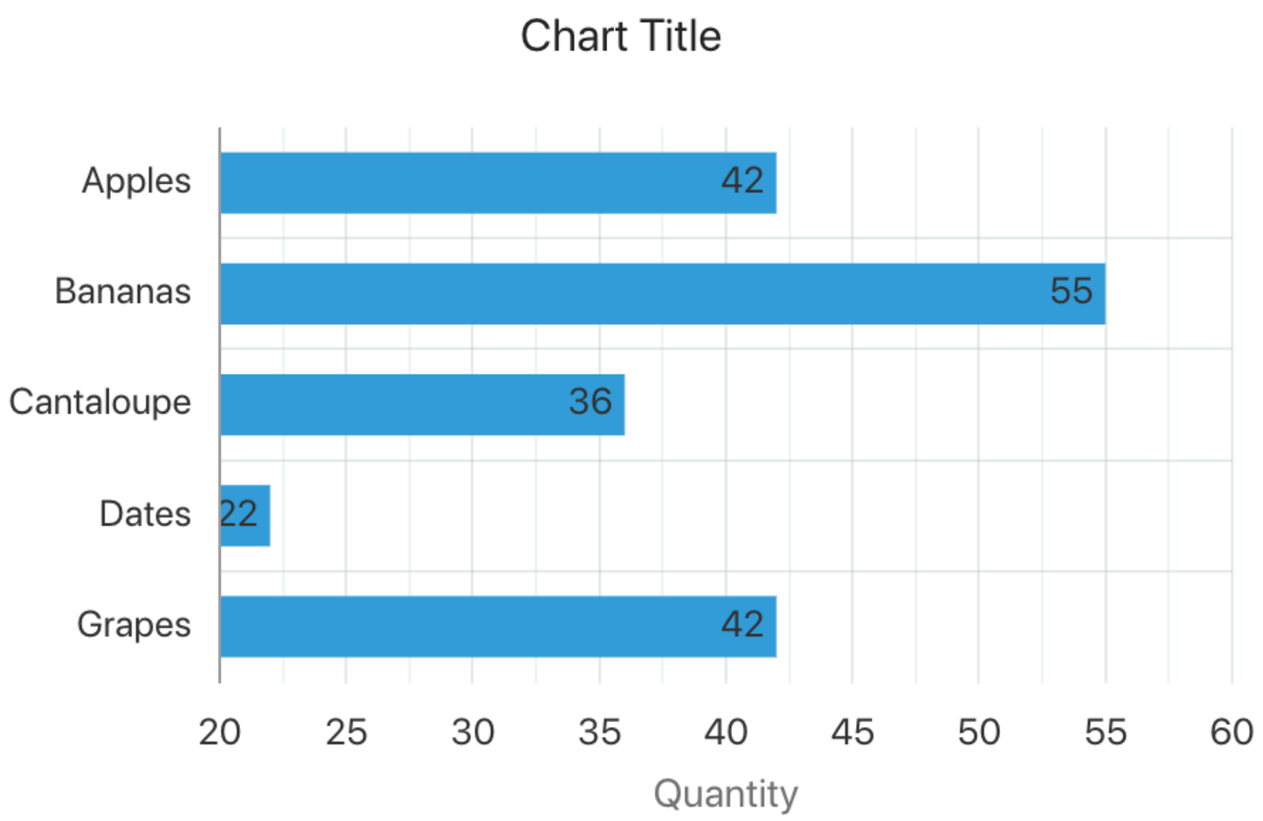
```
> apex.region('myChart').widget().on('ojoptionchange',
      (event, object) => {
          if (object.option === 'selection') {


          };
      });
  });
```

Elements Console Sources Network Performance Memory Application

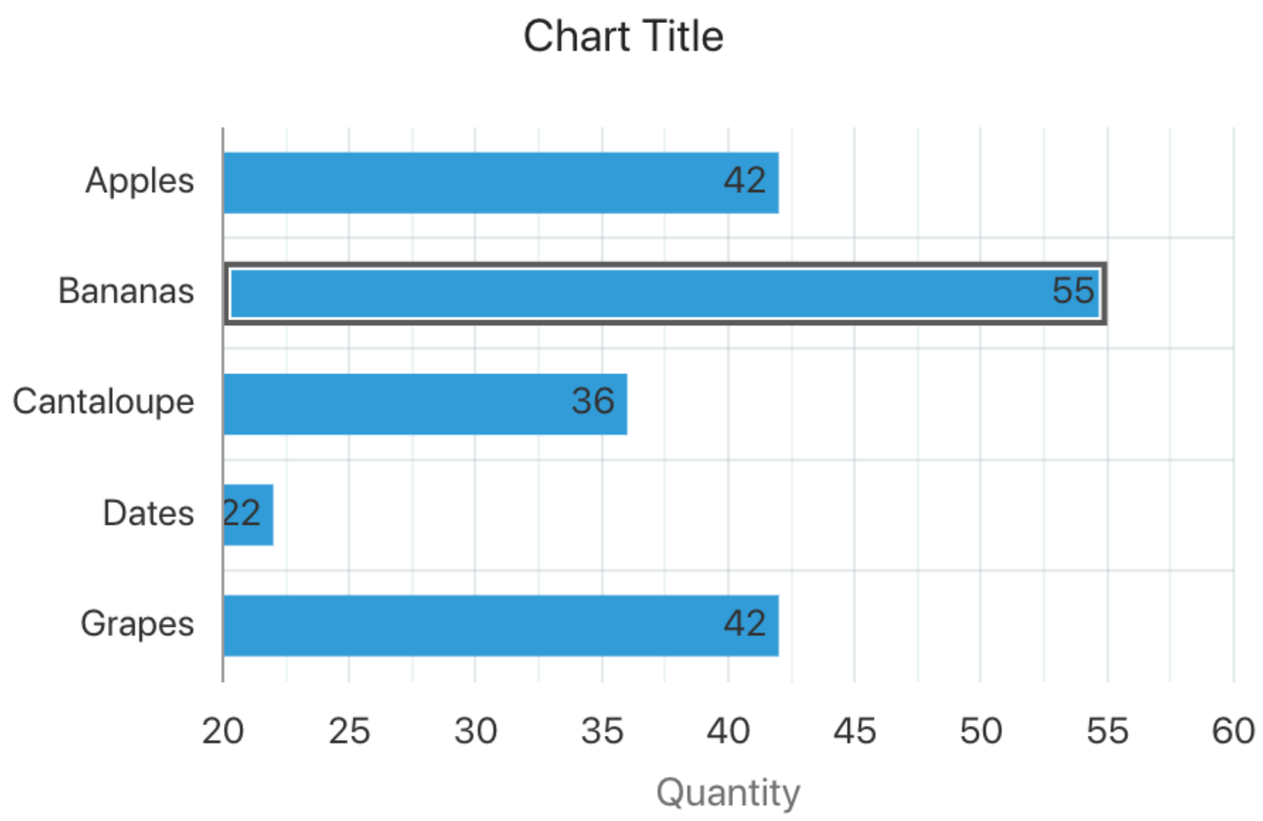
top Filter

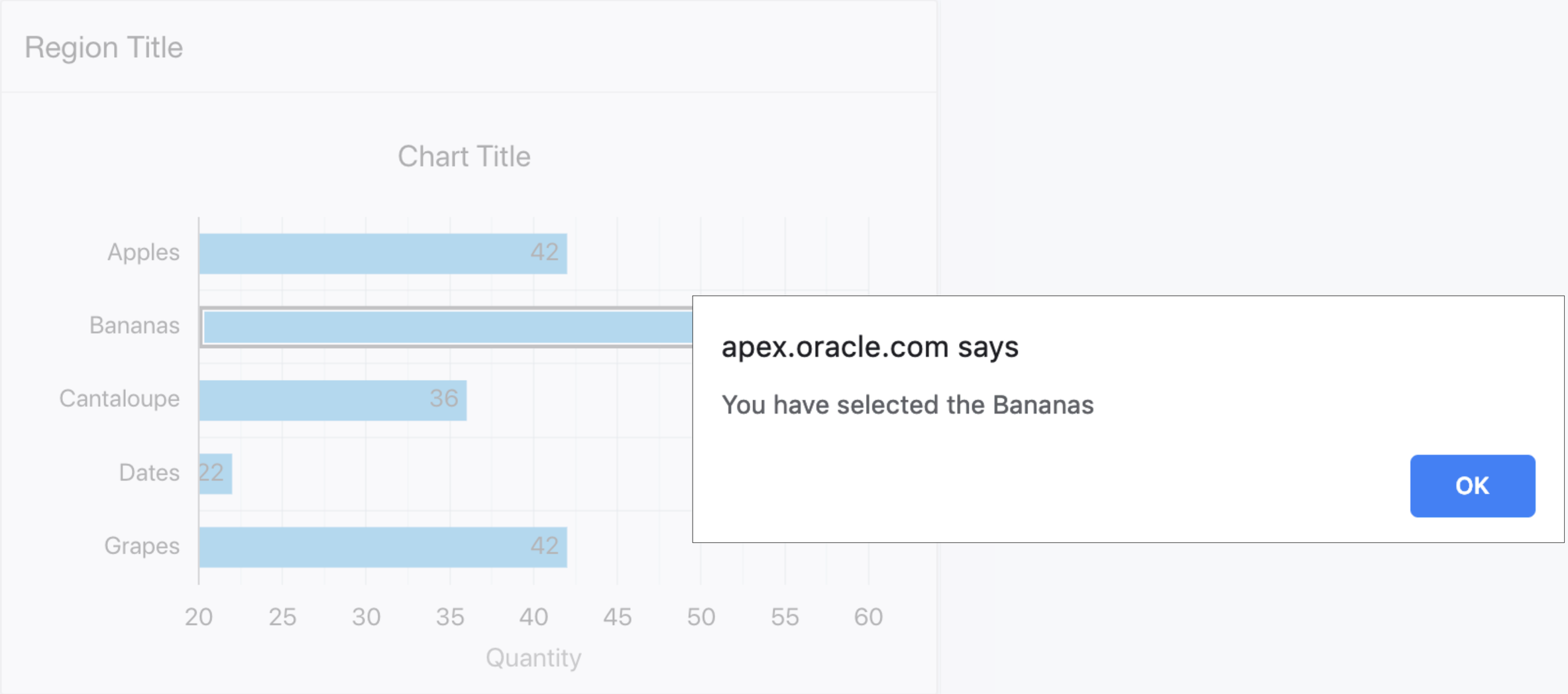
```
> apex.region('myChart').widget().on('ojoptionchange',
      (event, object) => {
          if (object.option === 'selection') {
              alert('You have selected the ' + object.value[0].group);
          };
      });
  });
```

Region Title



Region Title




Region Title
Chart Title
Apples
42
Bananas
Cantaloupe
36
Dates
22
Grapes
42
20
25
30
35
40
45
50
55
60
Quantity
apex.oracle.com says
You have selected the Bananas
OK

Cuplinis

https://apex.oracle.com/charts

Sample Charts

Help apex_public_user

- Home
- Area
- Bar
- Box Plot
- Bubble
- Combination
- Data Densification
- Dashboard
- Dashboard - Pies
- Dial Gauge
- Funnel
- Gantt
- Legend Plug-in
- Line
- Line with Area
- Pie
- Polar
- Pyramid
- Radar

Sample Charts

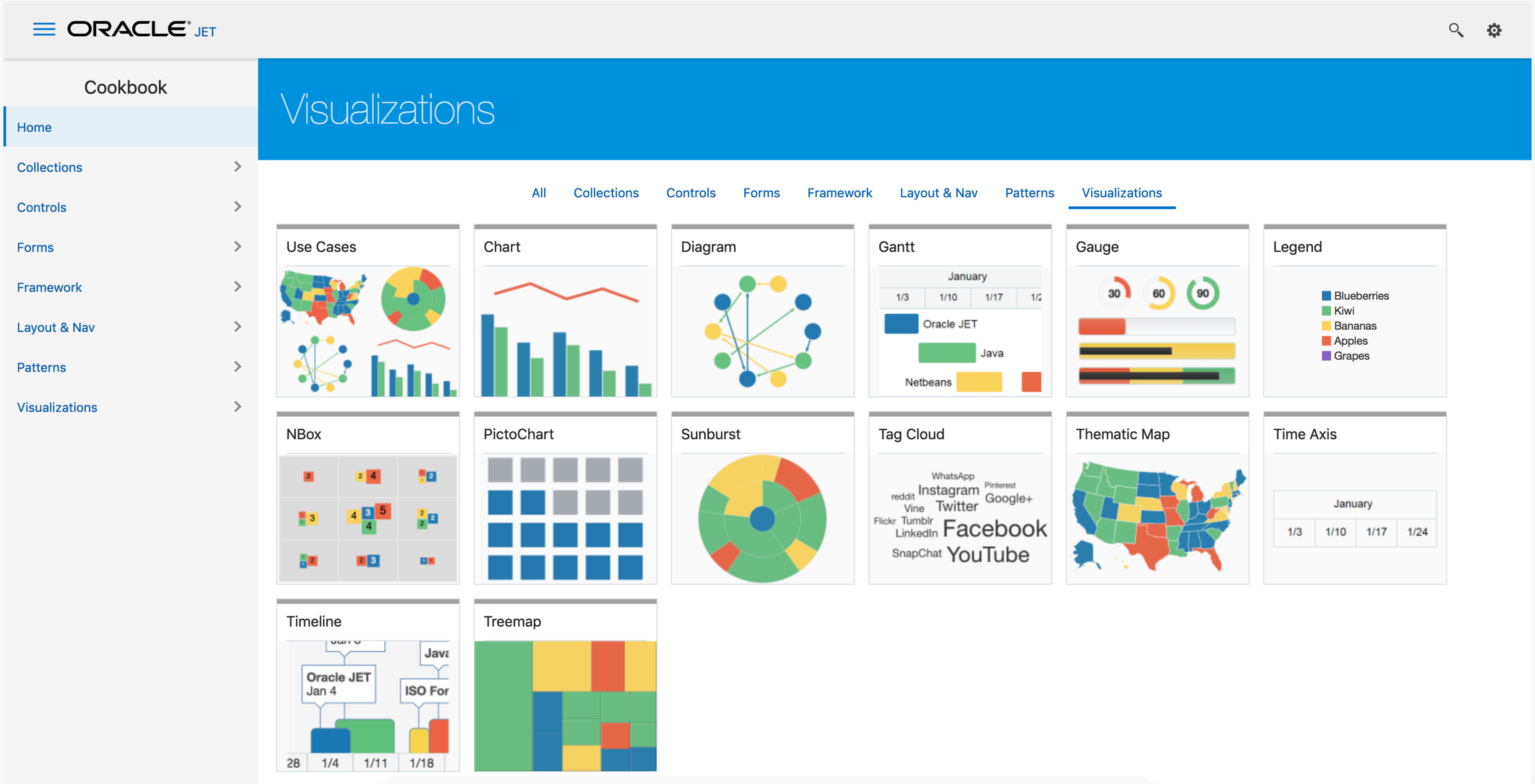
Charting examples for APEX applications

About Sample Charts

Oracle Application Express (APEX) has integrated charting based on Oracle JavaScript Extension Toolkit (JET) Data Visualizations. For more information on Oracle JET and the Data Visualizations components, please refer to the Oracle JET Get Started documentation and ojChart API guide.

Area	Bar	Box Plot	Bubble	Combination
Data Densification	Dashboard	Dashboard - Pie Charts	Dial Gauge	Funnel
Gantt	Legend Plug-in	Line	Line with Area	Pie

https://www.oracle.com/webfolder/technetwork/jet-420/jetCookbook.html



https://www.oracle.com/webfolder/technetwork/jet-420/jsdocs/oj.ojChart.html

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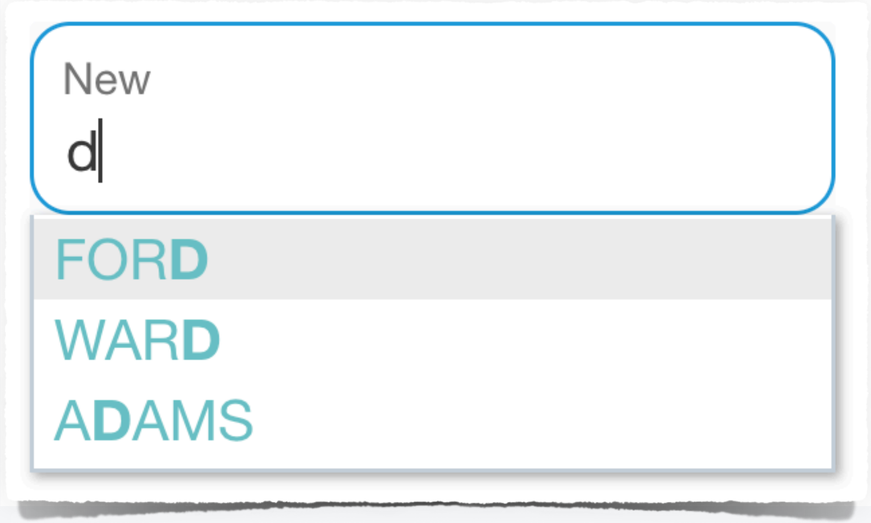
- getY2Axis
- getYAxis
- refresh
- setProperties
- setProperty

Items

Oracle APEX / JET Item

Oracle APEX / JET Item



ojInputSearch

Oracle APEX 5

```
▼<div class="t-Form-fieldContainer rel-col lto8231795378016703_0" id="P1_NEW_CONTAINER">
   ::before
  ▶<div class="t-Form-labelContainer col col-2">…</div>
  ▼<div class="t-Form-inputContainer col col-10">
    ▼<div class="t-Form-itemWrapper">
      ▼<script type="text/javascript">
         var gP1_NEWdata=["KING","BLAKE","CLARK","JONES","SCOTT","FORD","SMITH","ALLEN","WARD","MARTIN","TURNER","ADAMS","JAMES","MILLER"];
       </script>
       <input type="text" id="P1_NEW" name="P1_NEW" class="autocomplete apex-item-text ac_input" size="30" maxlength value autocomplete=
       "off">
     </div>
     <span id="P1_NEW_error_placeholder" class="a-Form-error" data-template-id="8282341507379642_ET"></span>
   </div>
   ::after
  </div>
</div>
```

Oracle APEX 5

```
▼<div class="t-Form-fieldContainer rel-col lto8231795378016703_0" id="P1_NEW_CONTAINER">
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      </div>
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    </div>
    ::after
  </div>
</div>
```

Oracle APEX 18

```
▼<div class="t-Form-fieldContainer t-Form-fieldContainer--floatingLabel lto11215678326720244_0 apex-item-wrapper apex-item-wrapper--auto-complete" id=
"P1_NEW_CONTAINER">
  ▶<div class="t-Form-labelContainer">…</div>
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       </script>
      ▼<div id="P1_NEW" class="apex-item-group apex-item-group--auto-complete">
        ▼<div class="oj-inputsearch oj-component oj-enabled oj-form-control oj-active" id="ojChoiceId_P1_NEW_HIDDEN">
          ▶<div class="oj-inputsearch-choice" tabindex="-1" role="presentation" id="oj-inputsearch-choice-P1_NEW_HIDDEN">…</div>
          ▶<div class="oj-listbox-drop" style="display:none" role="presentation" data-oj-containerid="ojChoiceId_P1_NEW_HIDDEN">…</div>
           <div role="region" class="oj-helper-hidden-accessible oj-listbox-liveregion" aria-live="polite" id="oj-listbox-live-P1_NEW_HIDDEN"></div>
           <input id="P1_NEW_HIDDEN" type="text" name="P1_NEW" class="oj-component-initnode" value tabindex="-1" aria-hidden="true" style="display: none;
           ">
         </div>
       </div>
     </div>
     <span id="P1_NEW_error_placeholder" class="a-Form-error" data-template-id="11423374416021187_ET"></span>
   </div>
 </div>
</div>
```

Oracle APEX 18

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▼<div class="t-Form-fieldContainer t-Form-fieldContainer--floatingLabel lto11215678326720244_0 apex-item-wrapper apex-item-wrapper--auto-complete" id=
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Class: ojInputSearch

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- messagesHidden
- messagesShown
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- optionRenderer
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- expand
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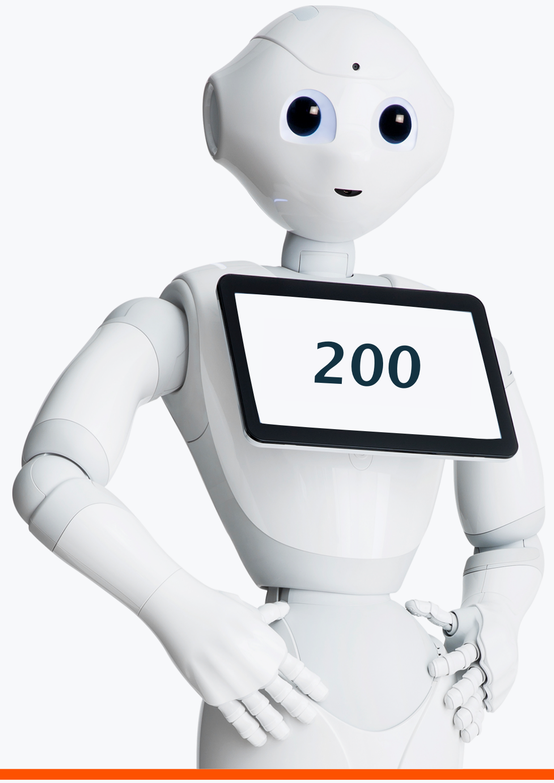
- option
- refresh
- reset
- showMessages
- validate
- widget

Non-public Methods (internal use only)

oj. ojInputSearch extends oj.editableValue

Version:	2.0.2
Since:	1.2.0



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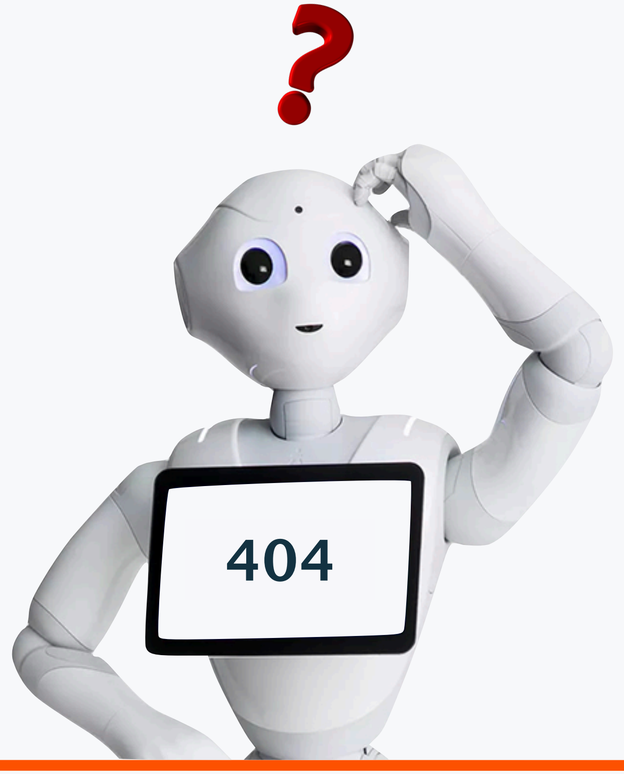

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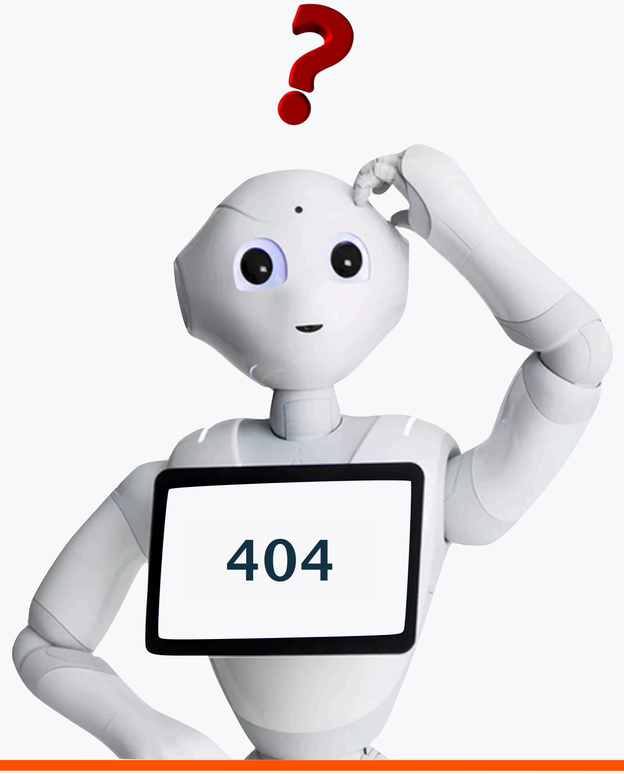

APEX 5.1
APEX 18
APEX 19

Class: ojInputSearch

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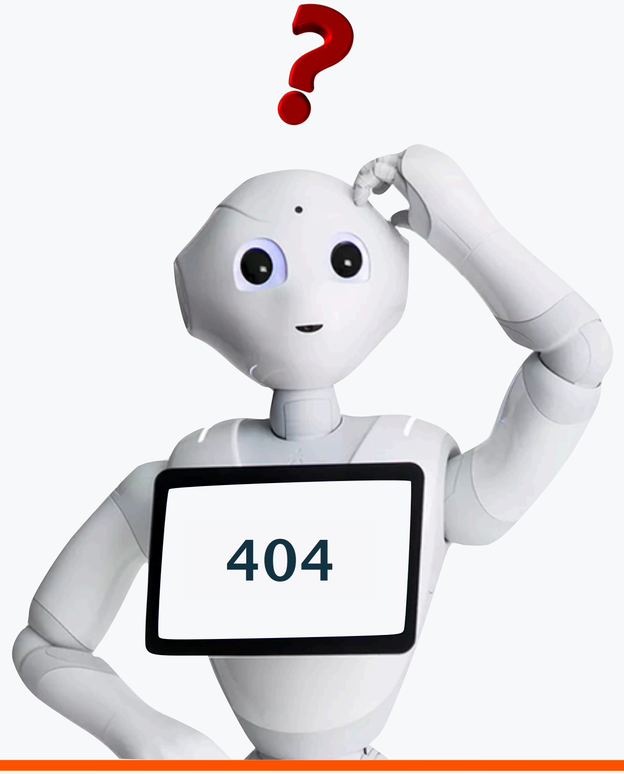

APEX 5.1 → JET 2.0.2
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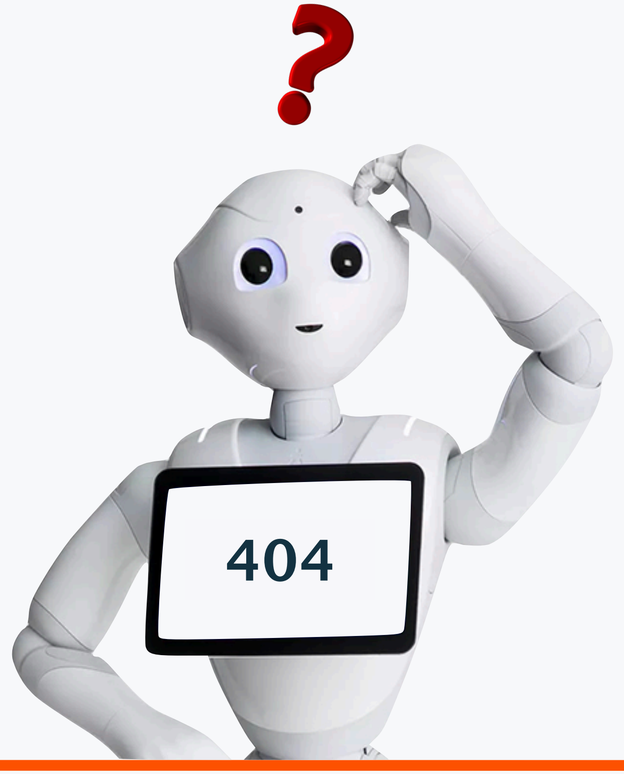

APEX 5.1 → JET 2.0.2
APEX 18 → JET 4.2.0
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Class: ojInputSearch

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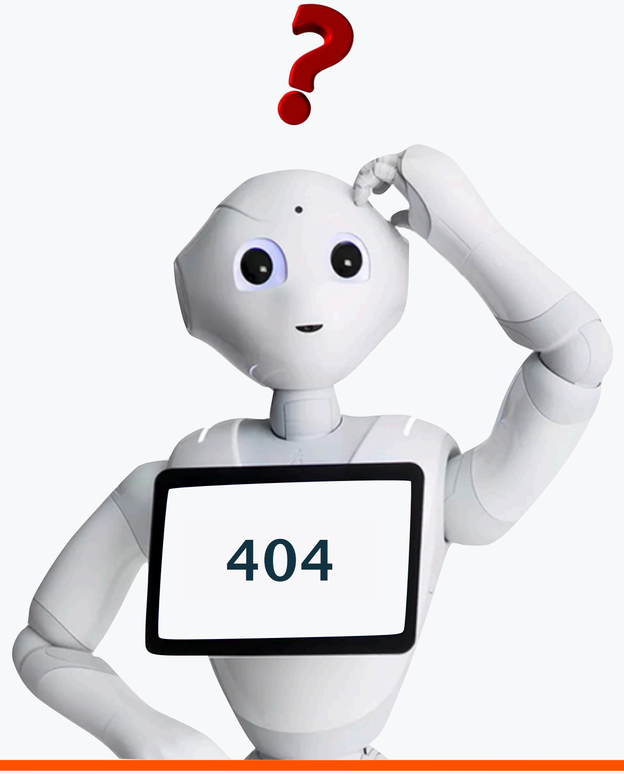
Version:	2.0.2
Since:	1.2.0



APEX 5.1 → JET 2.0.2
APEX 18 → JET 4.2.0
APEX 19 → JET 6

Oracle JET 4.2.0, now available for your coding pleasure!

John "JB" Brock (aka. peppertech) Follow

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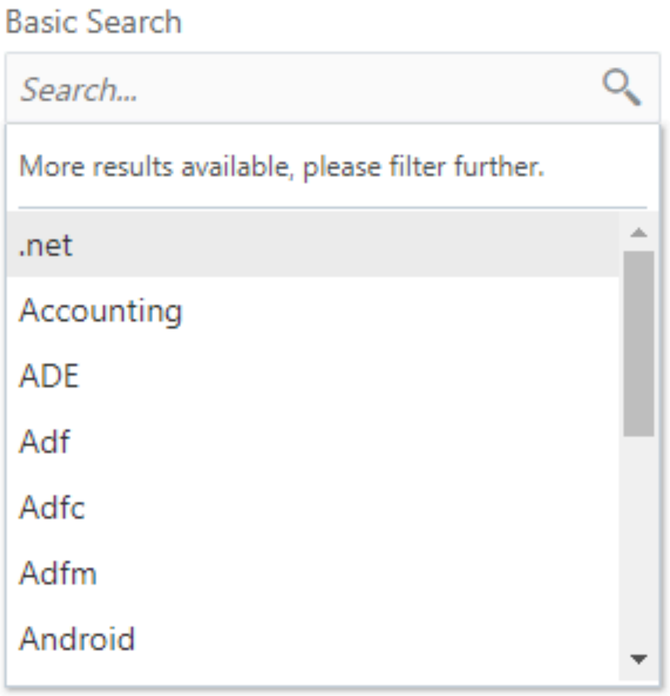

Basic search feature added to oj-combobox-one

Replacement for ojInputSearch

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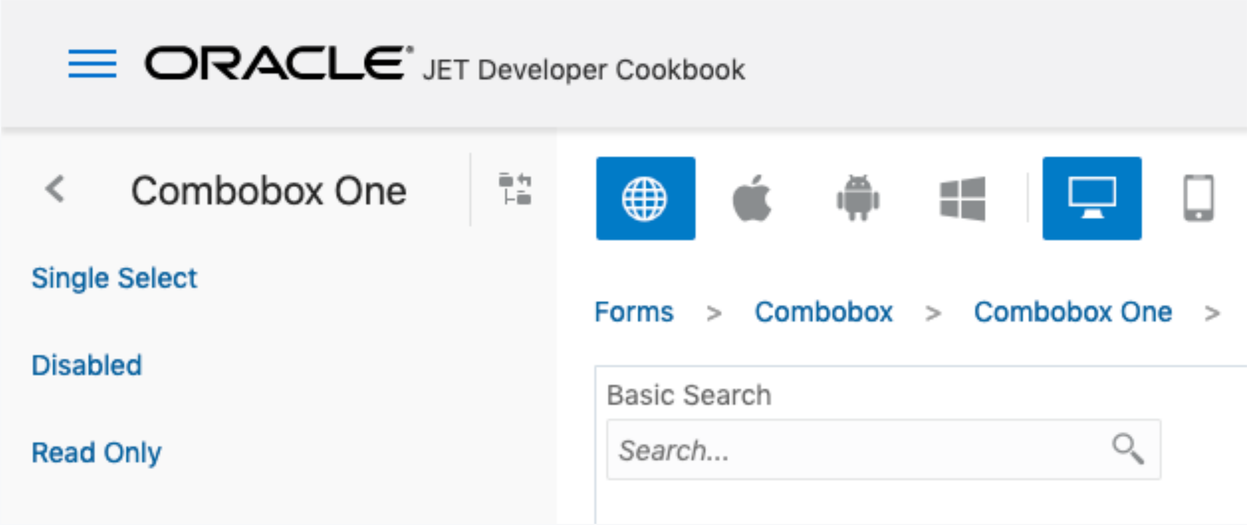

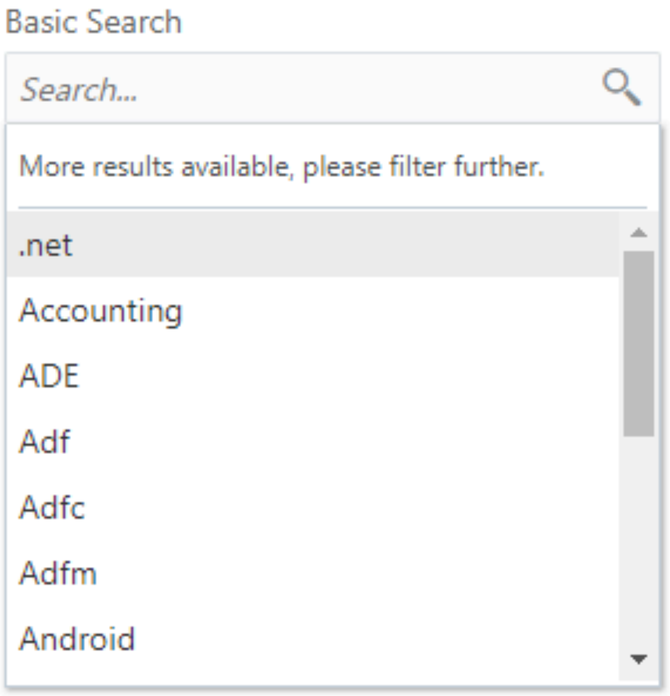

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Feb 14, 2018 · 3 min read

ORACLE JET Developer Cookbook

Combobox One

Single Select

Disabled

Read Only

Forms > Combobox > Combobox One >

Basic Search

Search...

Basic Search

Search...

More results available, please filter further.

.net

Accounting

ADE

Adf

Adfc

Adfm

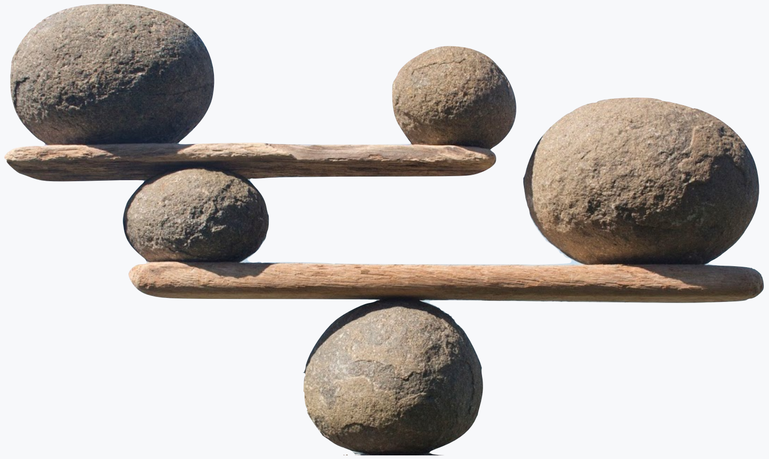
Android

Basic search feature added to oj-combobox-one

Replacement for ojInputSearch

Charts

Items



Plugins

ORACLE JET

All

All | Collections | Controls | Forms | Framework | Layout & Nav | Patterns | Visualizations

Collections

Data Grid

Id	Name	Room
556	Sales	201
10	Admin	300
50	HR	125

Indexer

A
Amy Bartlet
Andy Jones
B

A E I M Q

List View

Amy Bartlet
Vice President

Andy Jones
Director

Paging Control

Page 1 of 5

Pull To Refresh (Touch)

Amy Bartlet
Vice President

Row Expander

Task Name	Resource
T1	Amy
T1-1	Amy
T1-2	Larry

Swipe To Reveal (Touch)

Amy Bartlet
Vice President

One Two Three

Table

Id	Name	Room
556	Sales	201
10	Admin	300
50	HR	125

Tree View

- Home
- News
- Blogs
  - Today
  - Archive

Controls

Buttons

Enabled Disabled

Conveyor Belt

Carbon Helium Lithi

File Picker

Drop files here or click to upload

Film Strip

Car Bus

Image

Menus

Search
Calendar
Clock

Progress

0% 100%

ORACLE JET

All

All | Collections | Controls | Forms | Framework | Layout & Nav | Patterns | Visualizations

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- Home
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Conveyor Belt

Carbon Helium Lithi

File Picker

Drop files here or click to upload

Film Strip

Car Bus

Image

Menus

Search
Calendar
Clock

Progress

0% 100%

Search Keywords: JET

Sort by: Addec

Plug-in type: - Show all -

Developer: - Show all -

Compatible with DB Version: 12.1.0.2

Compatible with APEX Version: 5.0.1

Card View | Report View

Card View

ojSelect / ojCombo… (5)
Item Plug-in
Alan Arentsen
Date added: **22-Oct-2018**
Last updated: **23-Oct-2018**
Oracle JET select list item with multis…

JET StatusMeterGa…(3)
Region Plug-in
Roel Hartman
Date added: **09-Oct-2017**
Last updated: **21-Oct-2018**
Region Plugin to show one or more S…

JET PictoChart 1.0.0 (2)
Region Plug-in
Roel Hartman
Date added: **09-Oct-2017**
Last updated: **09-Oct-2017**
Region Plugin to show a JET PictoCh…

1 - 3

Search Keywords: JET

Sort by: Addec

Plug-in type: - Show all -

Developer: - Show all -

Compatible with DB Version: 12.1.0.2

Compatible with APEX Version: 5.0.1

Card View | Report View

Card View

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Last updated: **09-Oct-2017**
Region Plugin to show a JET PictoCh…

1 - 3

Combobox One

Single Select
Disabled
Events
Foreach
Item with image
New Entry
No Label
Options binding
Data Source Custom Template
Width
Minimum Chars To Filter
Custom Template
Data Provider
Data Provider No FetchByKeys
Data Provider Filtering
Data Provider Mapping
Search: Basic

Single Select

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JET Developer Cookbook

Combobox One

Single Select
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Minimum Chars To Filter
Custom Template
Data Provider
Data Provider No FetchByKeys
Data Provider Filtering
Data Provider Mapping
Search: Basic

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JET Developer Cookbook

Single Select

Info demo.html demo.js All

```
1
2  require(['ojs/ojcore', 'knockout', 'jquery', 'ojs/ojknockout',
   'ojs/ojselectcombobox'],
3  function(oj, ko, $)
4  {
5    $(
6      function()
7      {
8        function ValueModel() {
9            this.val = ko.observable("Chrome");
10       }
11       ko.applyBindings(new ValueModel(), document.getElementById('form1'));
12     }
13   );
14 });
15
```

ORACLE JET

Combobox One

- Single Select
- Disabled
- Events
- Foreach
- Item with image
- New Entry
- No Label
- Options binding
- Data Source Custom Template
- Width
- Minimum Chars To Filter
- Custom Template
- Data Provider
- Data Provider No FetchByKeys
- Data Provider Filtering
- Data Provider Mapping
- Search: Basic

Forms > Combobox > Combobox One > Single Select

ORACLE®

JET Developer Cookbook

Single Select

More JS Doc Apply

Info demo.html demo.js All

```
1  <html lang="en-us" style="height:100%;" dir="ltr">
2    <head>↔</head>
33   <body class="demo-disable-bg-image">
34     <div id="sampleDemo" style="" class="demo-padding demo-container">
35       <div id="componentDemoContent" style="width: 1px; min-width: 100%;">
36         <div id="form1">
37           <oj-label for="combobox">Combobox One</oj-label>
38           <oj-combobox-one id="combobox" value="{{val}}"
39             style="max-width:20em">
40             <oj-option value="Internet Explorer">Internet Explorer</oj-
option>
41             <oj-option value="Firefox">Firefox</oj-option>
42             <oj-option value="Chrome">Chrome</oj-option>
43             <oj-option value="Opera">Opera</oj-option>
44             <oj-option value="Safari">Safari</oj-option>
45           </oj-combobox-one>
46           <div>
47             <br/>
48             <oj-label for="curr-value" class="oj-label">Curr value is: </oj-
label>
49             <span id="curr-value" data-bind="text: val"></span>
50           </div>
51         </div>
52
53
54       </div>
55     </div>
56   </body>
57 </html>
```

ORACLE JET

Combobox One

- Single Select
- Disabled
- Events
- Foreach
- Item with image
- New Entry
- No Label
- Options binding
- Data Source Custom Template
- Width
- Minimum Chars To Filter
- Custom Template
- Data Provider
- Data Provider No FetchByKeys
- Data Provider Filtering
- Data Provider Mapping
- Search: Basic

Forms > Combobox > Combobox One > Single Select

Combobox One

Chrome

Curr value is:

Chrome

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JET Developer Cookbook

Single Select

More JS Doc Apply

Info demo.html demo.js All

```
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39             style="max-width:20em">
40             <oj-option value="Internet Explorer">Internet Explorer</oj-
option>
41             <oj-option value="Firefox">Firefox</oj-option>
42             <oj-option value="Chrome">Chrome</oj-option>
43             <oj-option value="Opera">Opera</oj-option>
44             <oj-option value="Safari">Safari</oj-option>
45           </oj-combobox-one>
46           <div>
47             <br/>
48             <oj-label for="curr-value" class="oj-label">Curr value is: </oj-
label>
49             <span id="curr-value" data-bind="text: val"></span>
50           </div>
51         </div>
52
53
54       </div>
55     </div>
56   </body>
57 </html>
```

Index

Elements

- <oj-accordion>
- <oj-avatar>
- <oj-button>
- <oj-buttonset-many>
- <oj-buttonset-one>
- <oj-chart>
- <oj-checkboxset>
- <oj-collapsible>
- <oj-color-palette>
- <oj-color-spectrum>
- <oj-combobox-many>
- **<oj-combobox-one>**
- <oj-conveyor-belt>
- <oj-data-grid>
- <oj-date-picker>
- <oj-date-time-picker>
- <oj-defer>
- <oj-diagram>
- <oj-dialog>
- <oj-file-picker>
- <oj-film-strip>
- <oj-form-layout>
- <oj-gantt>
- <oj-indexer>

Element: <oj-combobox-one>

QuickNav

Slots

- Default
- contextMenu
- end

Attributes

- converter
- described-by
- disabled
- display-options
- filter-on-open

Events

- ojAnimateEnd
- ojAnimateStart
- ojValueUpdated

Methods

- blur
- focus
- getProperty
- refresh
- reset

option-renderer :function(Object)|null

The renderer function that renders the content of an each option. The function should return one of the following:

- An Object with the following property:
  - insert: HTMLElement - A DOM element representing the content of the option.
- undefined: If the developer chooses to manipulate the option content directly, the function should return undefined.

The `option-renderer` decides only how the options' content has to be rendered in the drop down. Once an option is selected from the drop down value.

Examples

Initialize the Combobox with a renderer:

```
<oj-combobox-one option-renderer="[[optionRenderer]]"></oj-combobox-one>
```

```
var optionRenderer = function(optionContext) {
          return optionContext['data']['FIRST_NAME'];
        };
```

1

JS Doc
JavaScript

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1

2

JS Doc
JavaScript

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JET Developer Cookbook

HTML CSS
JavaScript

1

2

3

JS Doc
JavaScript

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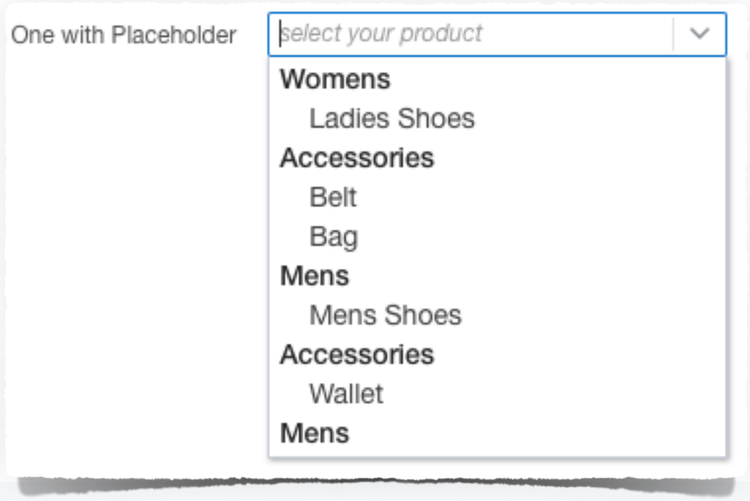
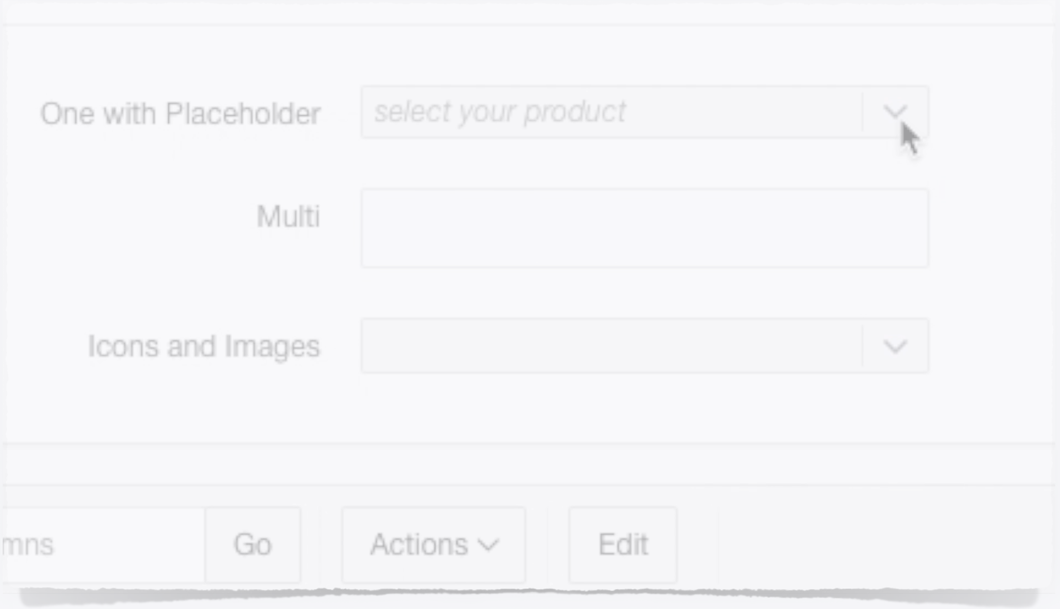
JET Developer Cookbook

HTML CSS
JavaScript

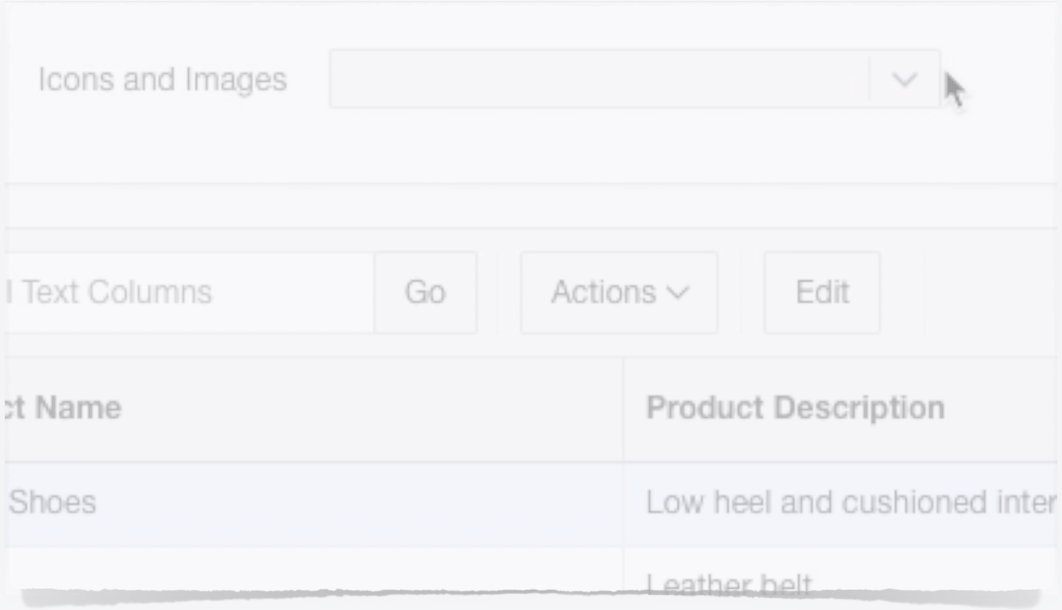


Combobox One

Single Select

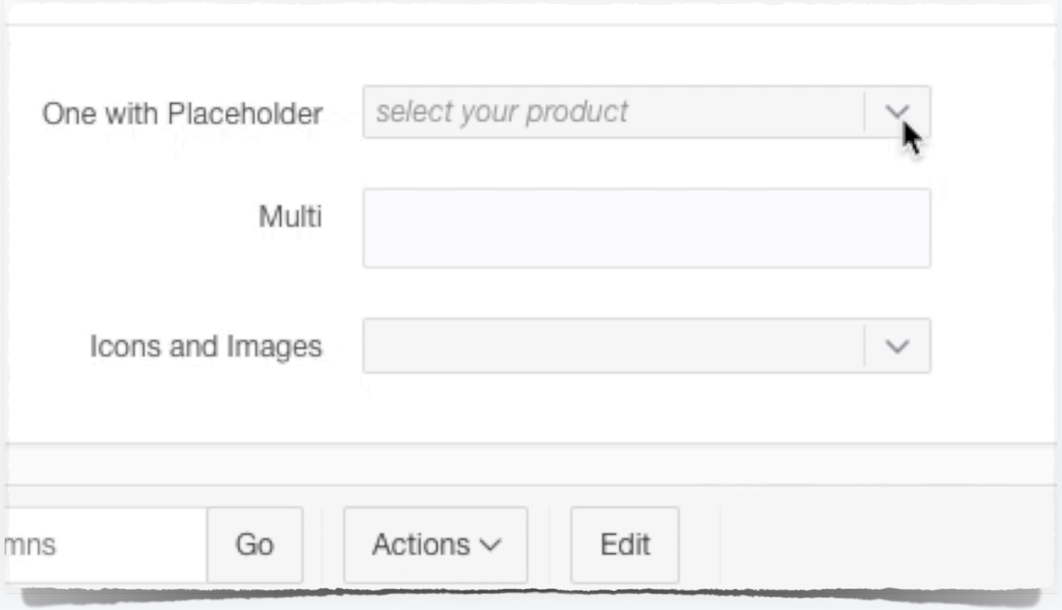


Item with image

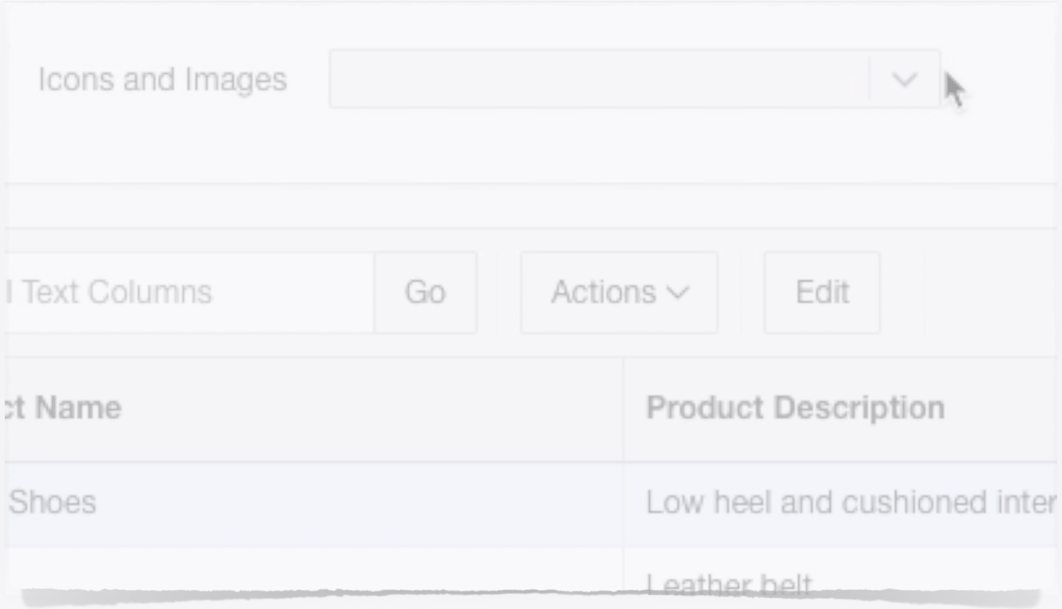


Combobox One

Single Select

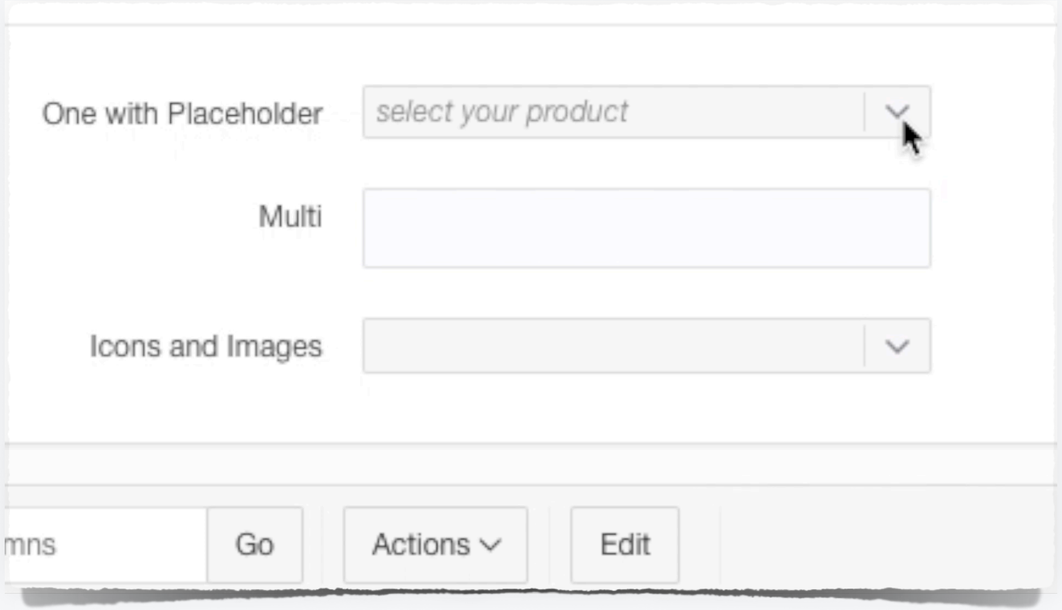


Item with image

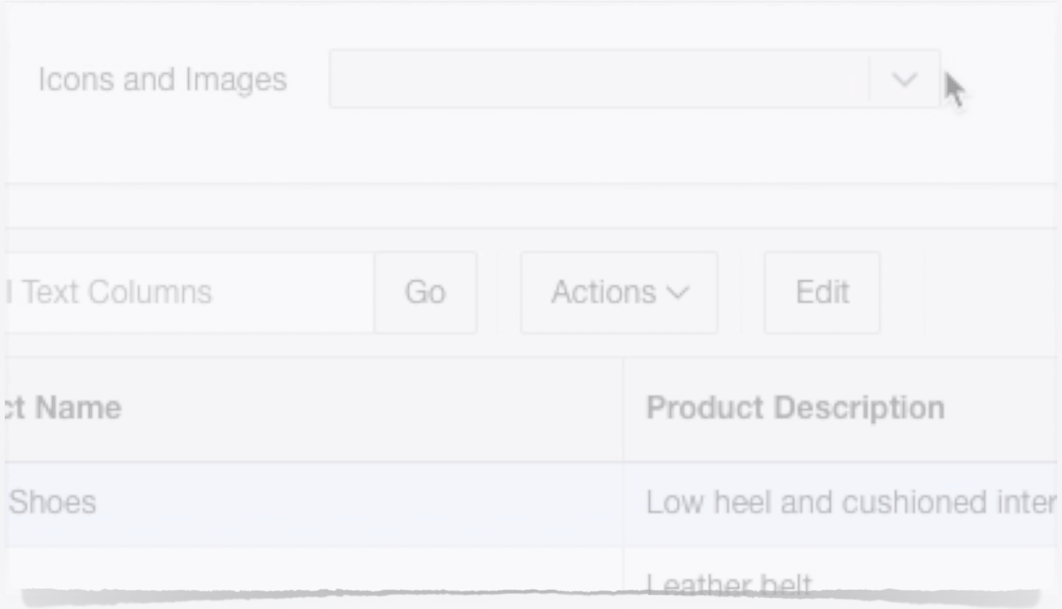


Combobox One

Single Select



Item with image



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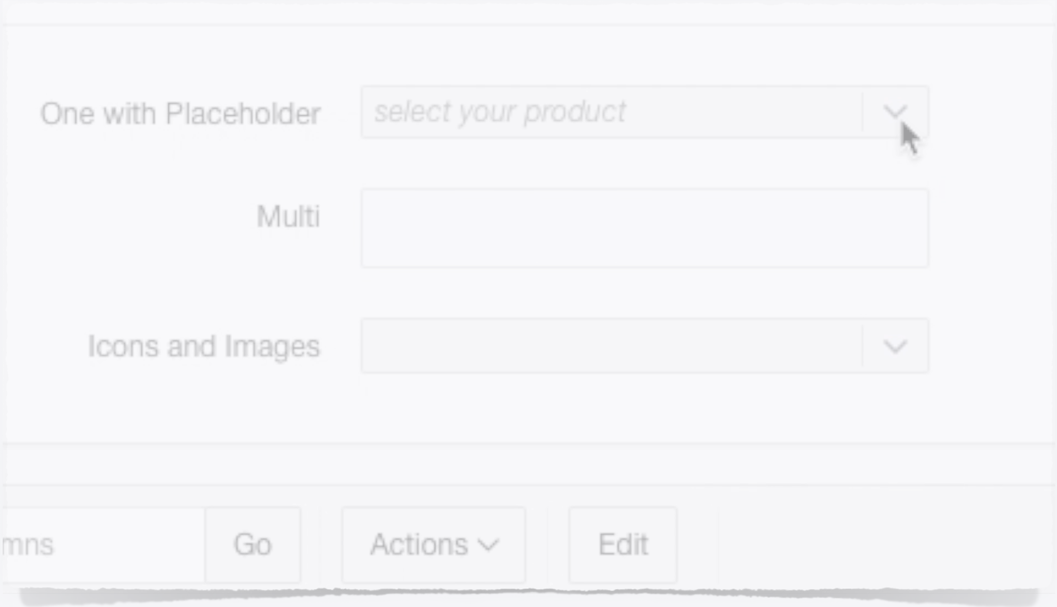
Single Select



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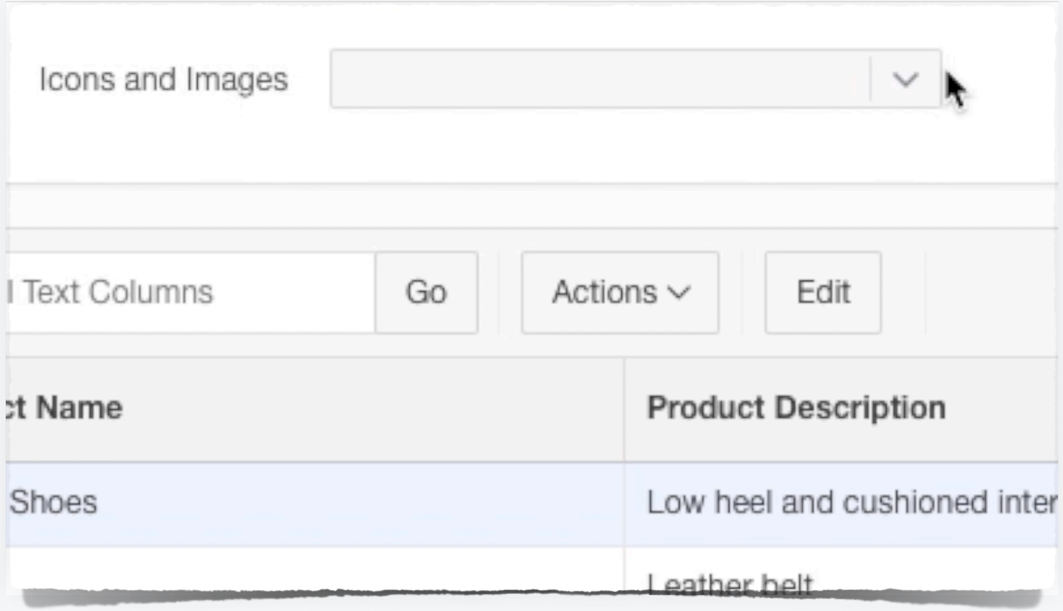


Identification

Name: P1_PRODUCT_2

Type: Select List OJET [Plug-In]

Label

Label: One with Placeholder

Settings

Component Type: ojCombobox

Placeholder: select your product

Multi-select: Yes **No**

List of Values

Type: SQL Query

SQL Query

```
select dpi.product_name as d
      ,dpi.product_id as r
      ,dpi.category as g
  from demo_product_info dpi
```

Code Editor - SQL Query

1

Code Editor - SQL Query

```
select name  as d
      ,id    as r
      ,group as g
      ,icon  as i
  from browsers
```

Code Editor - SQL Query

```
1 select name  as d
       ,id    as r
       ,group as g
       ,icon  as i
  from browsers
```

'https://cdnjs.cloudflare.com/.../firefox_1.5-3_16x16.png'

```
▼<span>
  <img src="https://cdnjs.cloudflare.com/ajax/libs/browser-logos
</span>
" Firefox"
```

Code Editor - SQL Query

```
1 select name  as d
       ,id    as r
       ,group as g
       ,icon  as i
  from browsers
```

'https://cdnjs.cloudflare.com/.../firefox_1.5-3_16x16.png'

```
▼<span>
  <img src="https://cdnjs.cloudflare.com/ajax/libs/browser-logos
</span>
" Firefox"
```

'fa fa-fire u-color-22-text'


```
▼<span class="fa fa-fire u-color-22-text">
  ::before
</span>
" Firefox"
```

Code Editor - SQL Query

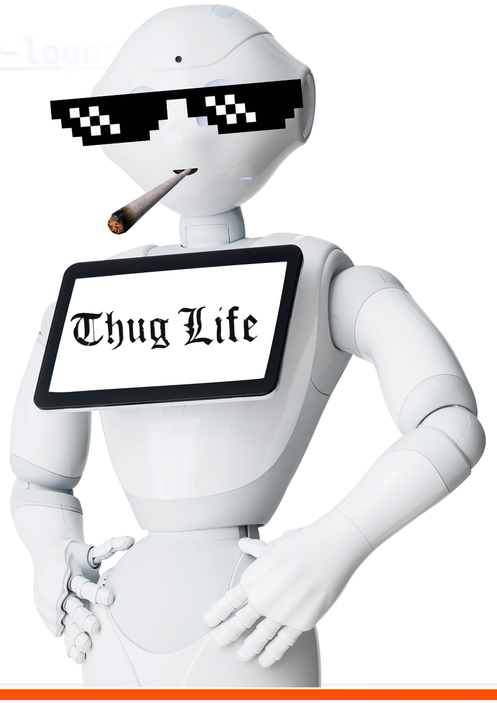
```
1 select name  as d
        ,id    as r
        ,group as g
        ,icon  as i
  from browsers
```

'https://cdnjs.cloudflare.com/.../firefox_1.5-3_16x16.png'

```
▼<span>
  <img src="https://cdnjs.cloudflare.com/ajax/libs/browser-logo
</span>
" Firefox"
```

'fa fa-fire u-color-22-text'


```
▼<span class="fa fa-fire u-color-22-text">
  ::before
</span>
" Firefox"
```

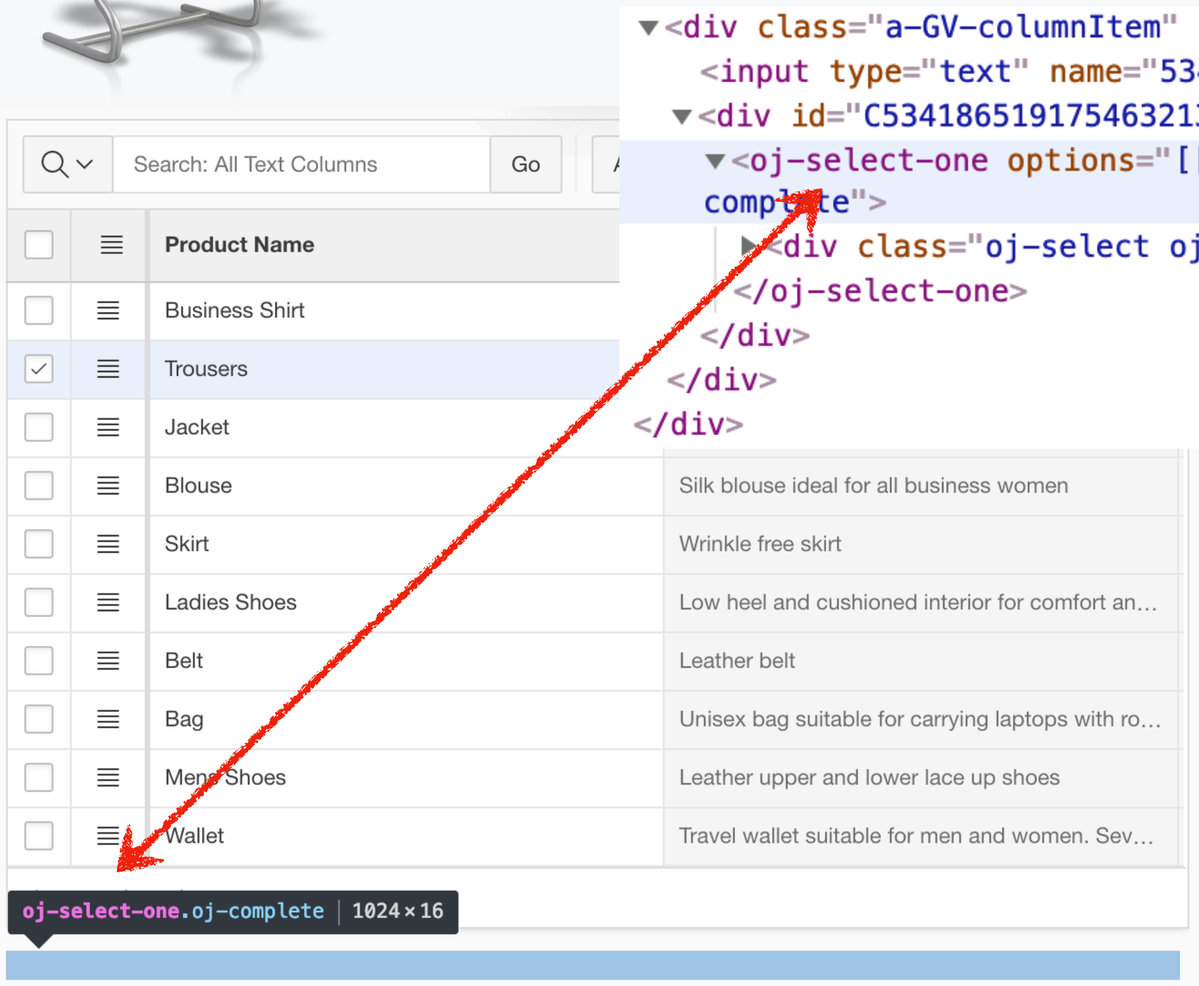


Interactive Grid

Search: All Text Columns | Go | Actions | Edit

Product Name	Product Description
Business Shirt	Wrinkle-free cotton business shirt
Trousers	Black trousers suitable for every business man
Jacket	Fully lined jacket which is both professional an…
Blouse	Silk blouse ideal for all business women
Skirt	Wrinkle free skirt
Ladies Shoes	Low heel and cushioned interior for comfort an…
Belt	Leather belt
Bag	Unisex bag suitable for carrying laptops with ro…
Mens Shoes	Leather upper and lower lace up shoes
Wallet	Travel wallet suitable for men and women. Sev…

Interactive Grid




```
▼<div class="a-GV-columnItem" style="height: 100%;">
  <input type="text" name="5341865191754632137" class="apex-item-plugin u-hidden js-ignoreChange"
  ▼<div id="C5341865191754632137_OJETCONTAINER" class="apex-item-ojselect" style="width: 100%;">
    ▼<oj-select-one options="[[options]]" value="{{values}}" " placeholder="{{placeholder}}" optior
    complete">
      ▶<div class="oj-select oj-component oj-enabled oj-select-jet oj-form-control" id="ojChoiceId_
      </oj-select-one>
    </div>
  </div>
</div>
```

Interactive Grid

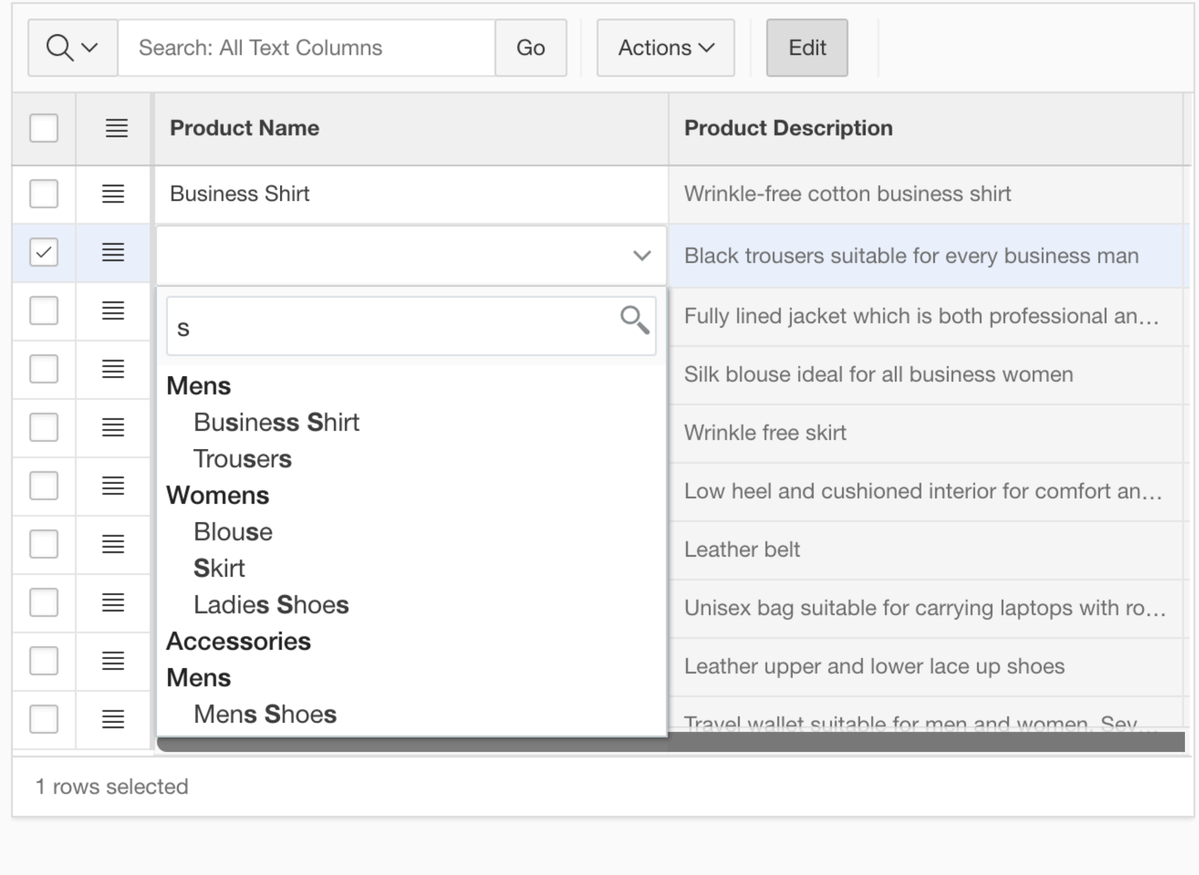
```
▼<div class="a-GV-columnItem" style="height: 100%;">
  <input type="text" name="5341865191754632137" class="apex-item-plugin u-hidden js-ignoreChange"
  ▼<div id="C5341865191754632137_OJETCONTAINER" class="apex-item-ojselect" style="width: 100%;">
    ▼<oj-select-one options="[[options]]" value="{{values}}" " placeholder="{{placeholder}}" option
    complete">
      ▶<div class="oj-select oj-component oj-enabled oj-select-jet oj-form-control" id="ojChoiceId_
      </oj-select-one>
    </div>
  </div>
</div>
```

Search: All Text Columns | Go

		Product Name	
☐	≡	Business Shirt	
☑	≡	Trousers	
☐	≡	Jacket	
☐	≡	Blouse	Silk blouse ideal for all business women
☐	≡	Skirt	Wrinkle free skirt
☐	≡	Ladies Shoes	Low heel and cushioned interior for comfort an…
☐	≡	Belt	Leather belt
☐	≡	Bag	Unisex bag suitable for carrying laptops with ro…
☐	≡	Mens Shoes	Leather upper and lower lace up shoes
☐	≡	Wallet	Travel wallet suitable for men and women. Sev…

oj-select-one.oj-complete | 1024 × 16

Interactive Grid



Knockout.

Knockout.

- Responsive Displays

Knockout.

- Responsive Displays
- Editor User Interfaces

Knockout.

- Responsive Displays
- Editor User Interfaces
- Update Sections Dynamically

Knockout.

- Responsive Displays
- Editor User Interfaces
- Update Sections Dynamically

Single Page Applications

Knockout.

- Responsive Displays
- Editor User Interfaces
- Update Sections Dynamically

Single Page Applications

Knockout.

- Responsive Displays
- Editor User Interfaces
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Single Page Applications

Knockout.

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- Update Sections Dynamically

Single Page Applications

Dynamic Pages

Knockout.

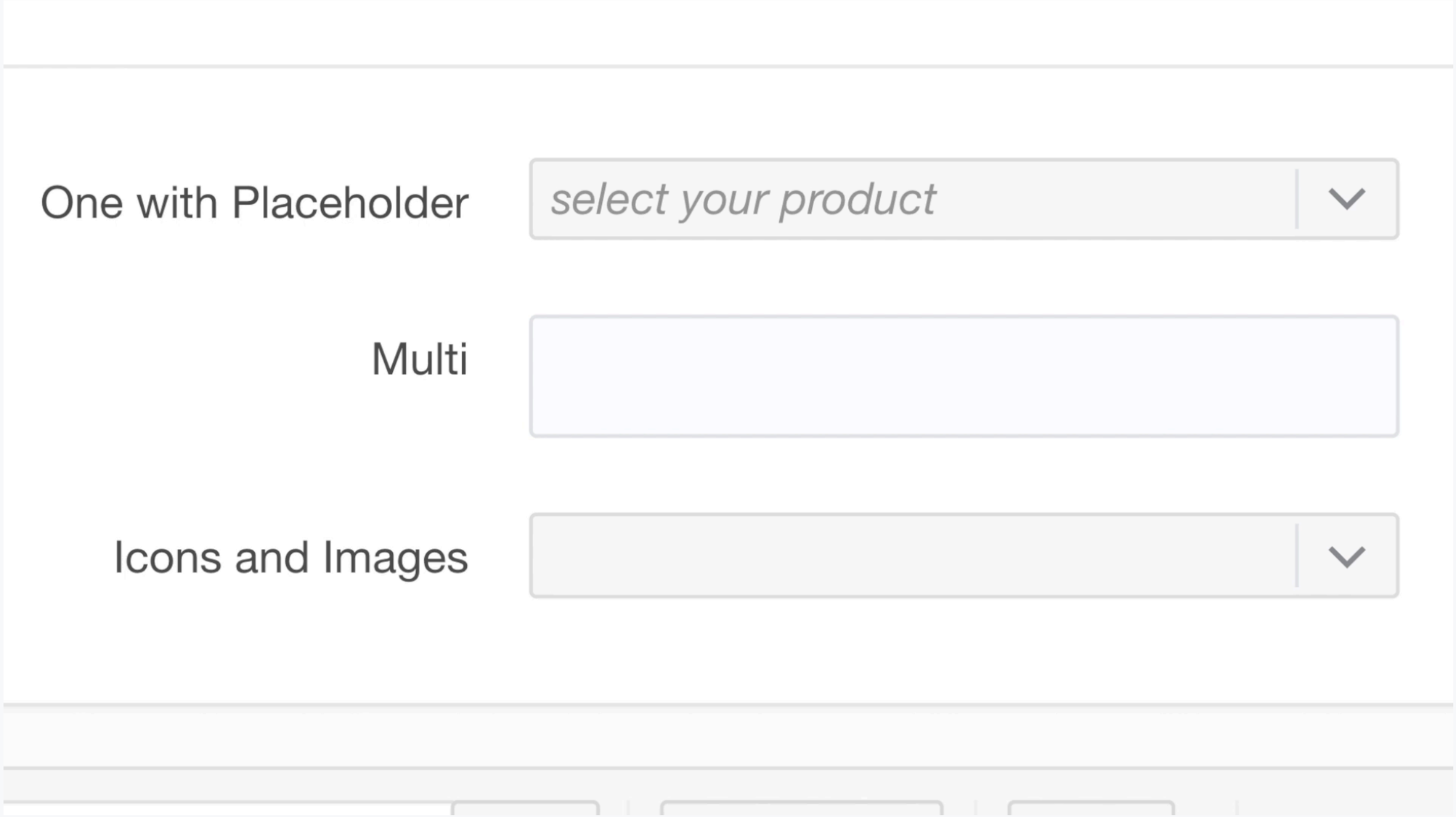
- Responsive Displays
- Editor User Interfaces
- Update Sections Dynamically

Single Page Applications

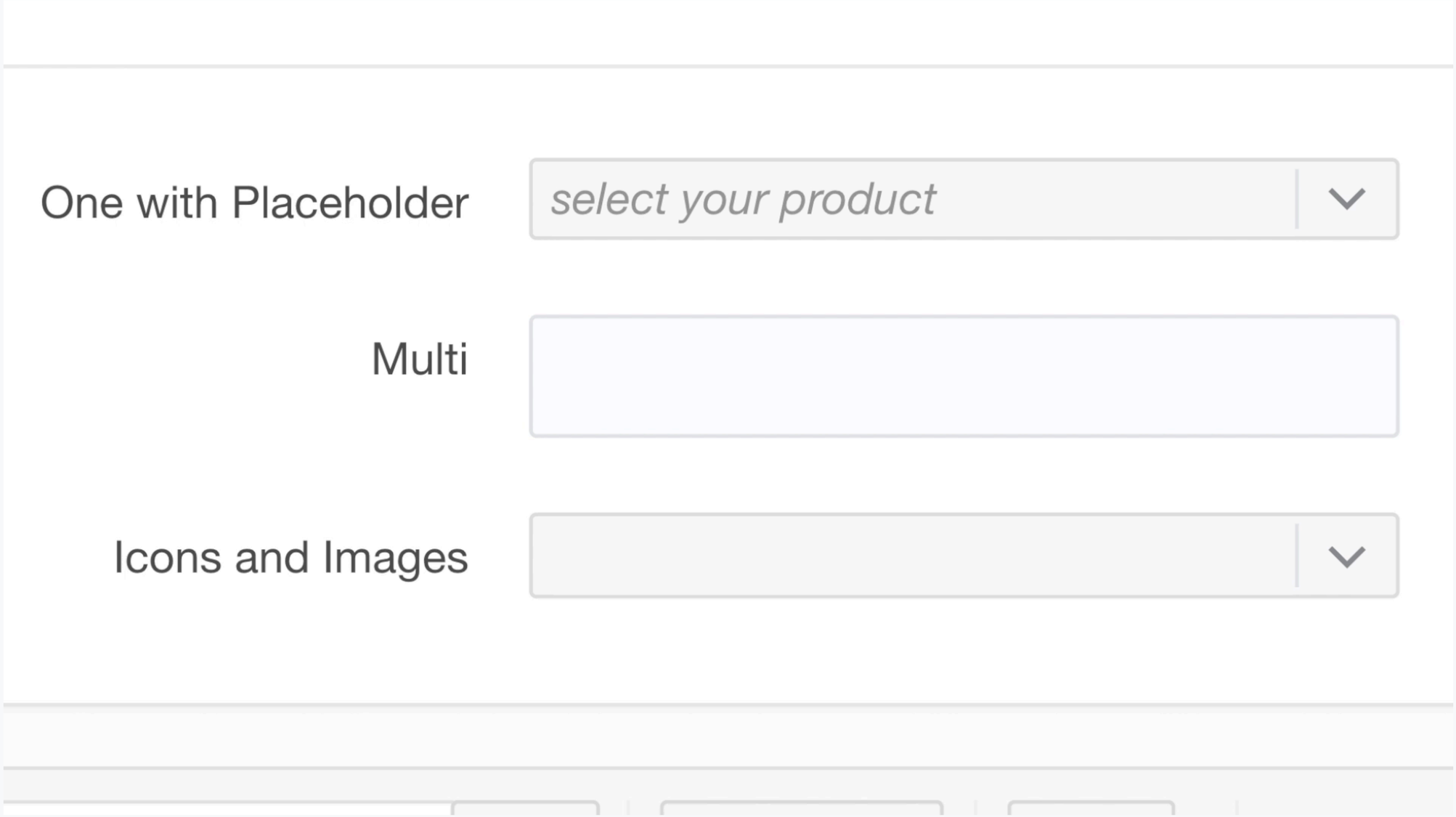
Dynamic Actions ←

Dynamic Pages

Delayed Loading



Delayed Loading



'old' way

```
<input data-bind="ojComponent: {component: 'ojCombobox', options:
                                [{value: 'option1', label: 'option1'}, {value: 'option2', label: 'option2'}]}"/>
```

'old' way

```
<input data-bind="ojComponent: {component: 'ojCombobox', options:
                                [{value: 'option1', label: 'option1'}, {value: 'option2', label: 'option2'}]}"/>
```

data-bind

'old' way

```
<input data-bind="ojComponent: {component: 'ojCombobox', options:
                                [{value: 'option1', label: 'option1'}, {value: 'option2', label: 'option2'}]}"/>
```

component: 'ojCombobox'

data-bind

'old' way

```
<input data-bind="ojComponent: {component: 'ojCombobox', options:
                                [{value: 'option1', label: 'option1'}, {value: 'option2', label: 'option2'}]}"/>
```

'old' way

```
<input data-bind="ojComponent: {component: 'ojCombobox', options:
                                [{value: 'option1', label: 'option1'}, {value: 'option2', label: 'option2'}]}"/>
```

'new' way

'old' way

```
<input data-bind="ojComponent: {component: 'ojCombobox', options:
                                [{value: 'option1', label: 'option1'}, {value: 'option2', label: 'option2'}]}"/>
```

'new' way

```
<oj-combobox-one id="combobox" value="{{val}}"
  style="max-width:20em">
  <oj-option value="Internet Explorer">Internet Explorer</oj-option>
  <oj-option value="Firefox">Firefox</oj-option>
  <oj-option value="Chrome">Chrome</oj-option>
  <oj-option value="Opera">Opera</oj-option>
  <oj-option value="Safari">Safari</oj-option>
</oj-combobox-one>
```

Charts

Items

Plugins

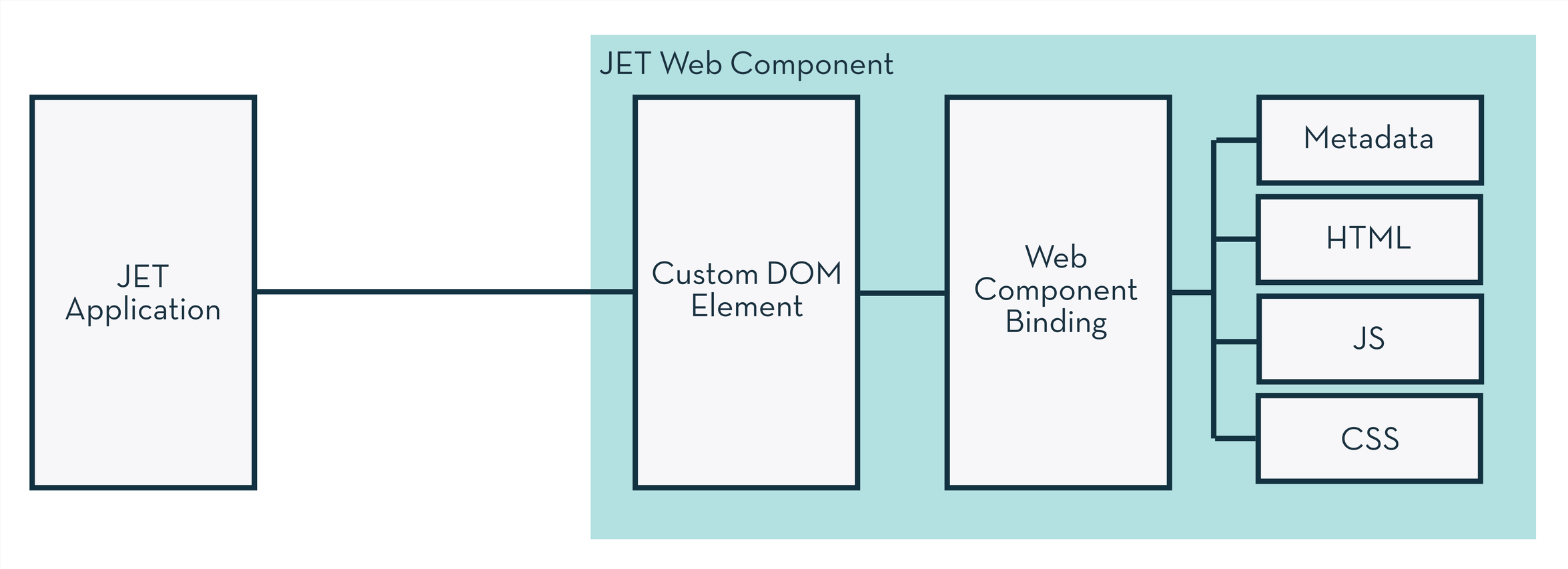
Composite Component Architecture
(CCA)

~~Composite Component Architecture~~
(CCA)

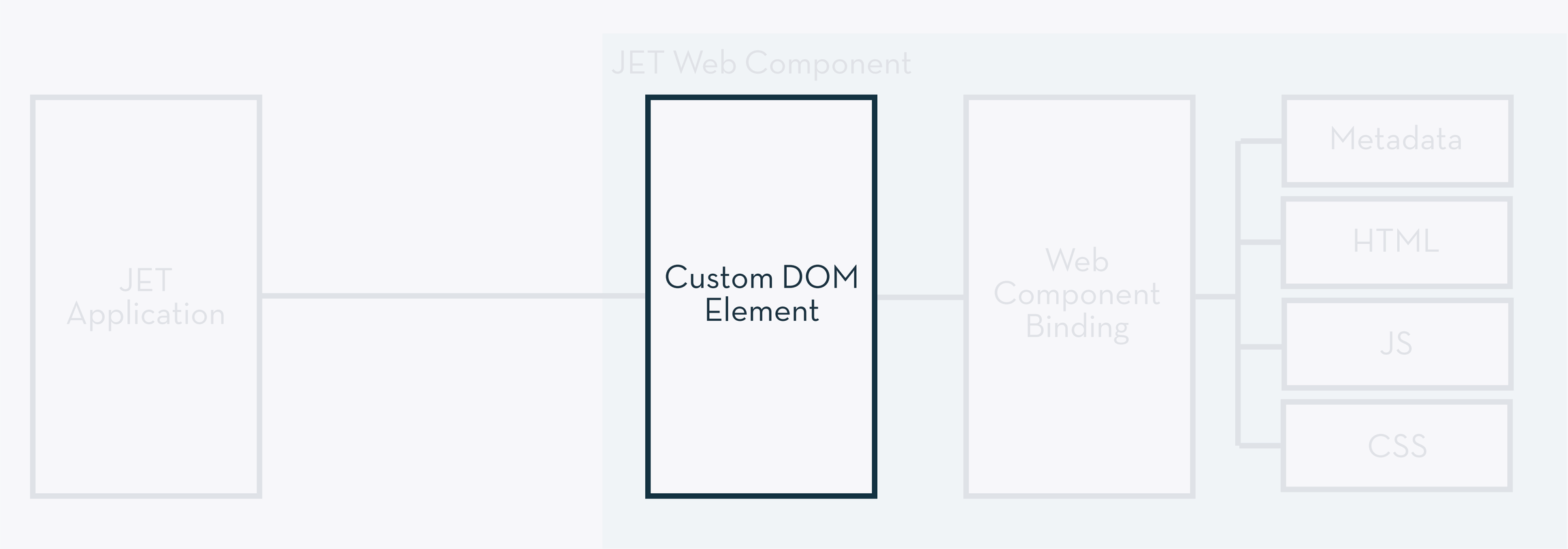
~~Composite Component Architecture~~
(CCA)

JET Web Component Architecture

JET Web Component Architecture



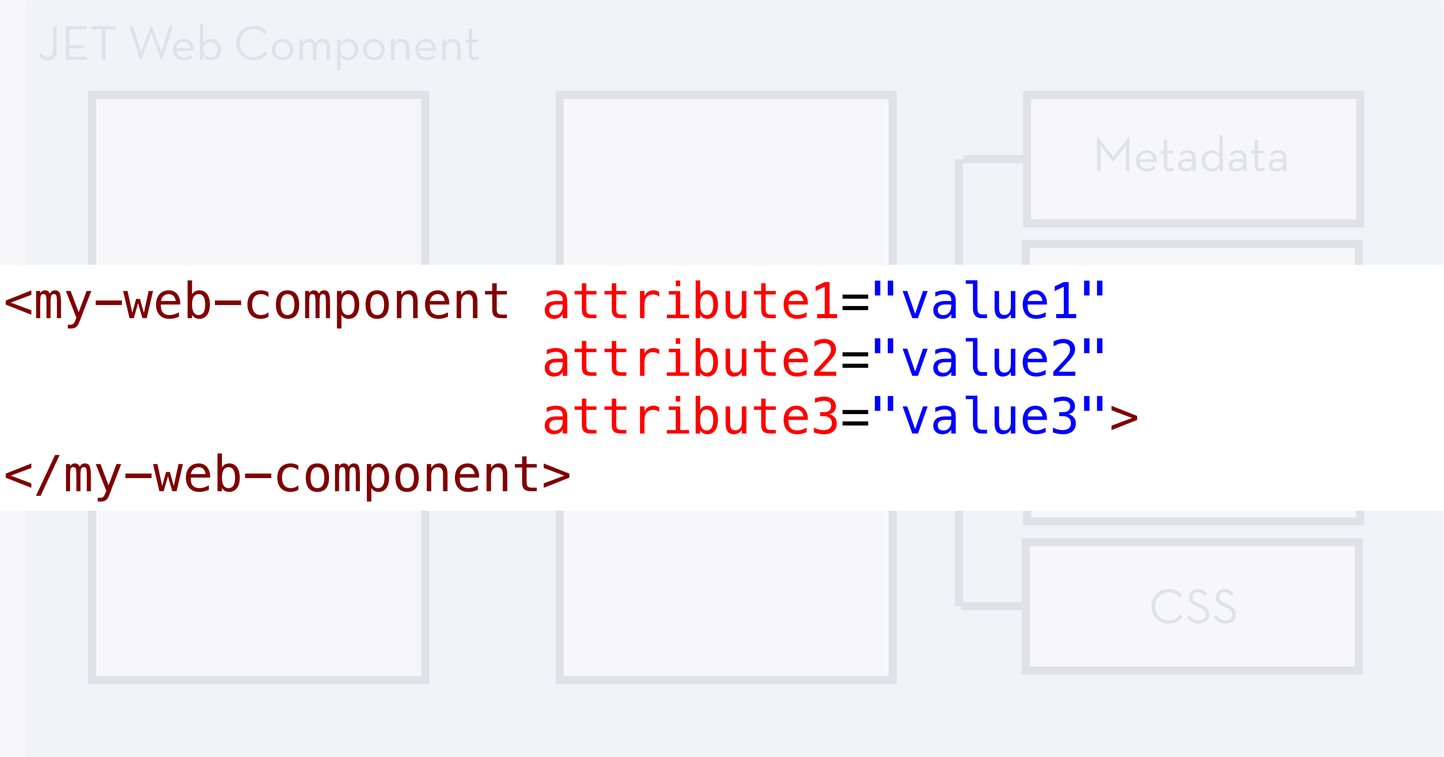
JET Web Component Architecture



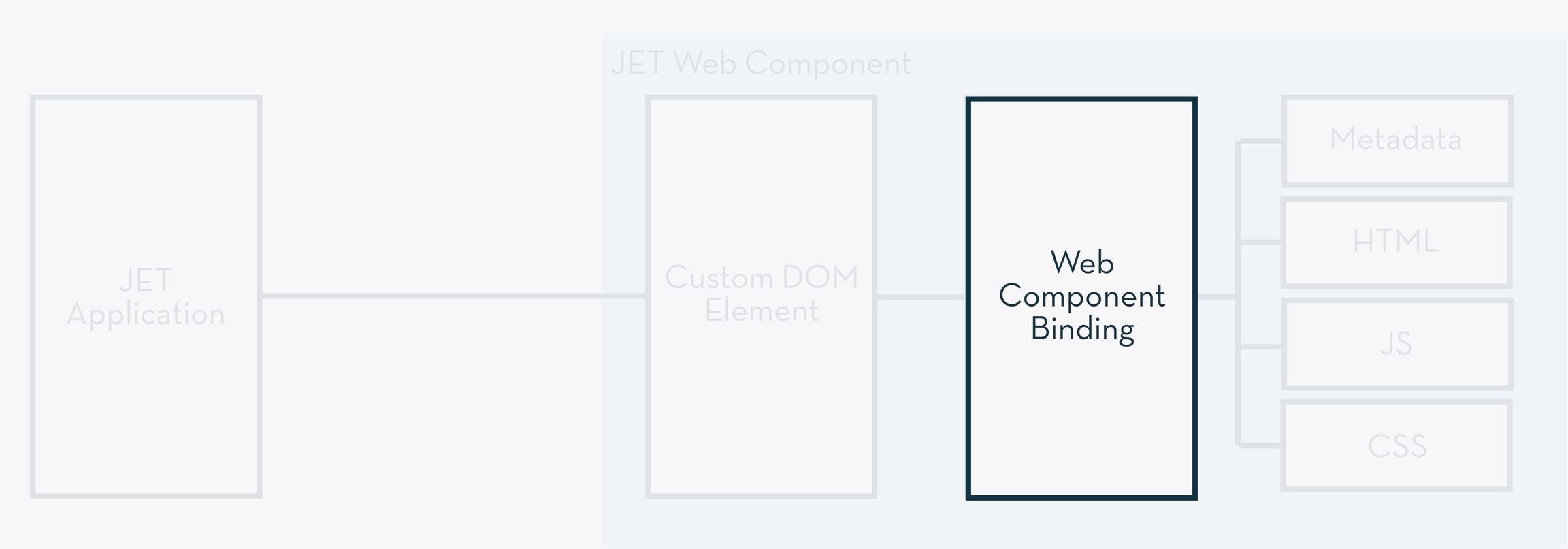
JET Web Component Architecture

Custom DOM Element

```
<my-web-component attribute1="value1"
                  attribute2="value2"
                  attribute3="value3">
</my-web-component>
```

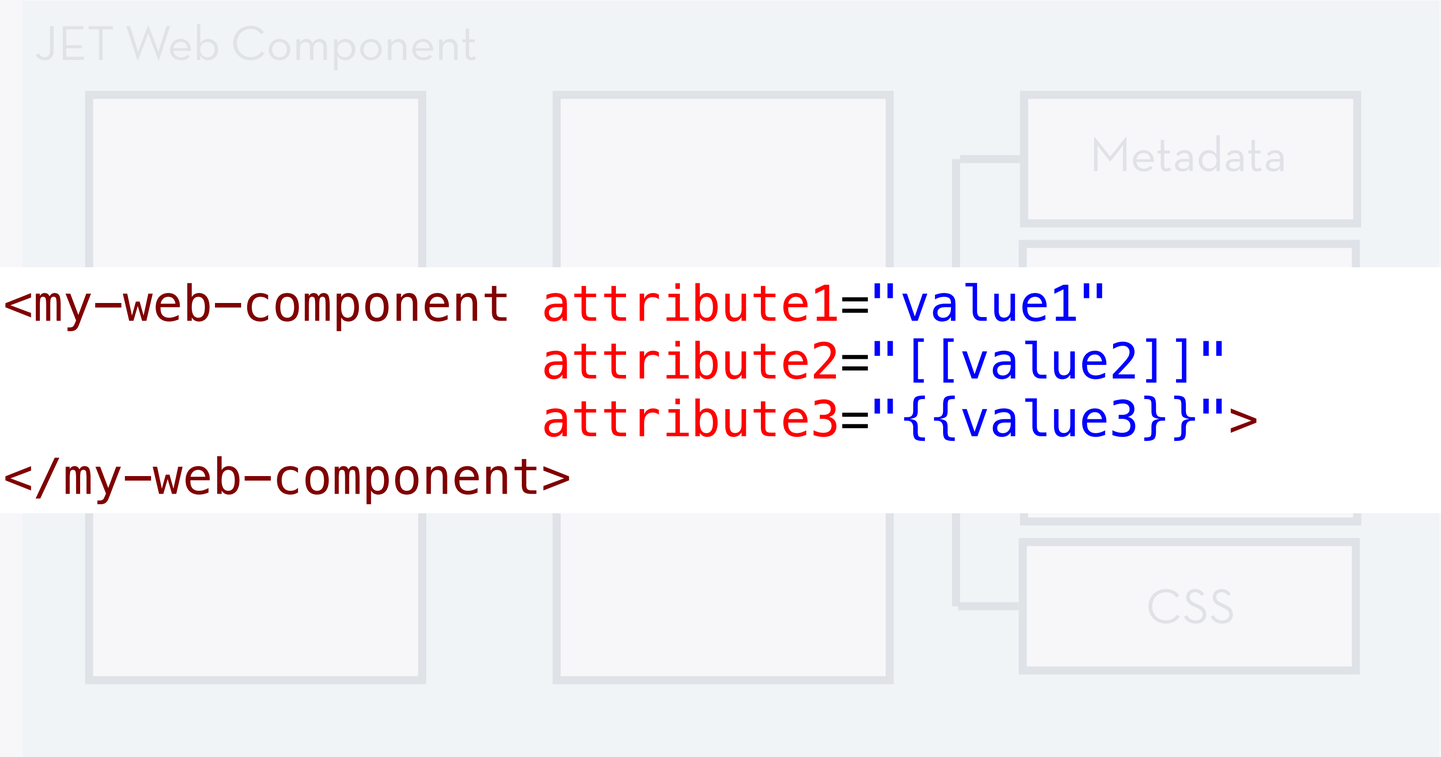


JET Web Component Architecture



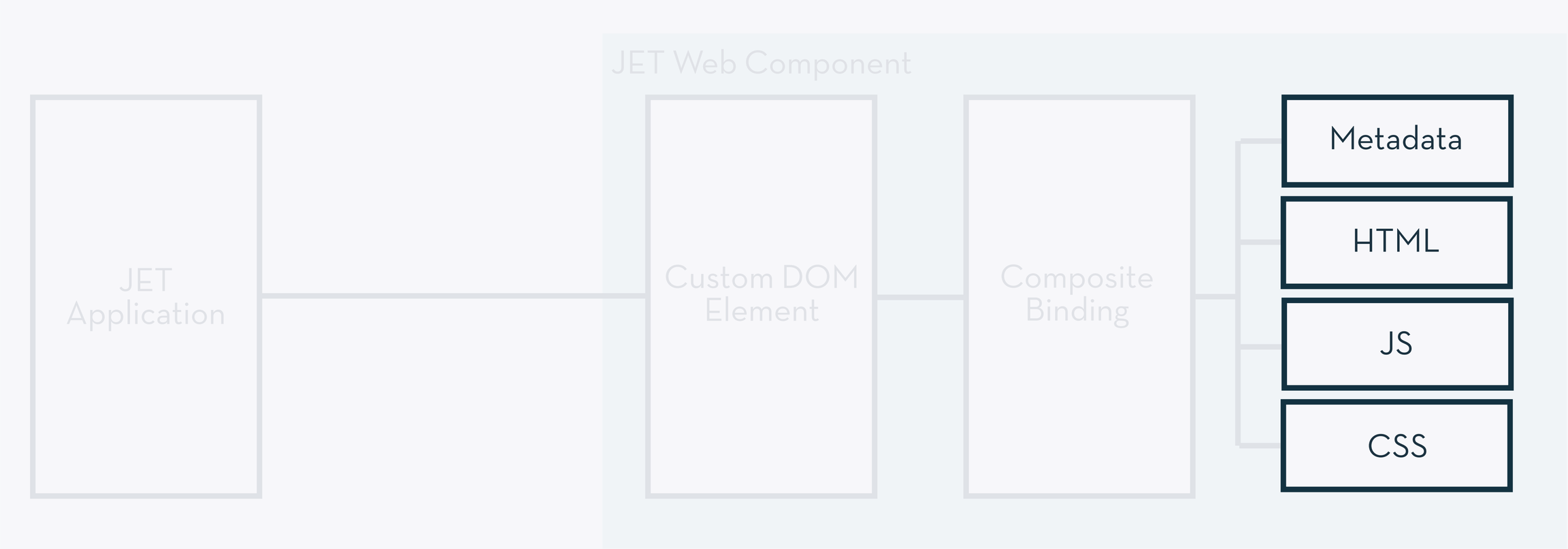
JET Web Component Architecture

Web Component Binding

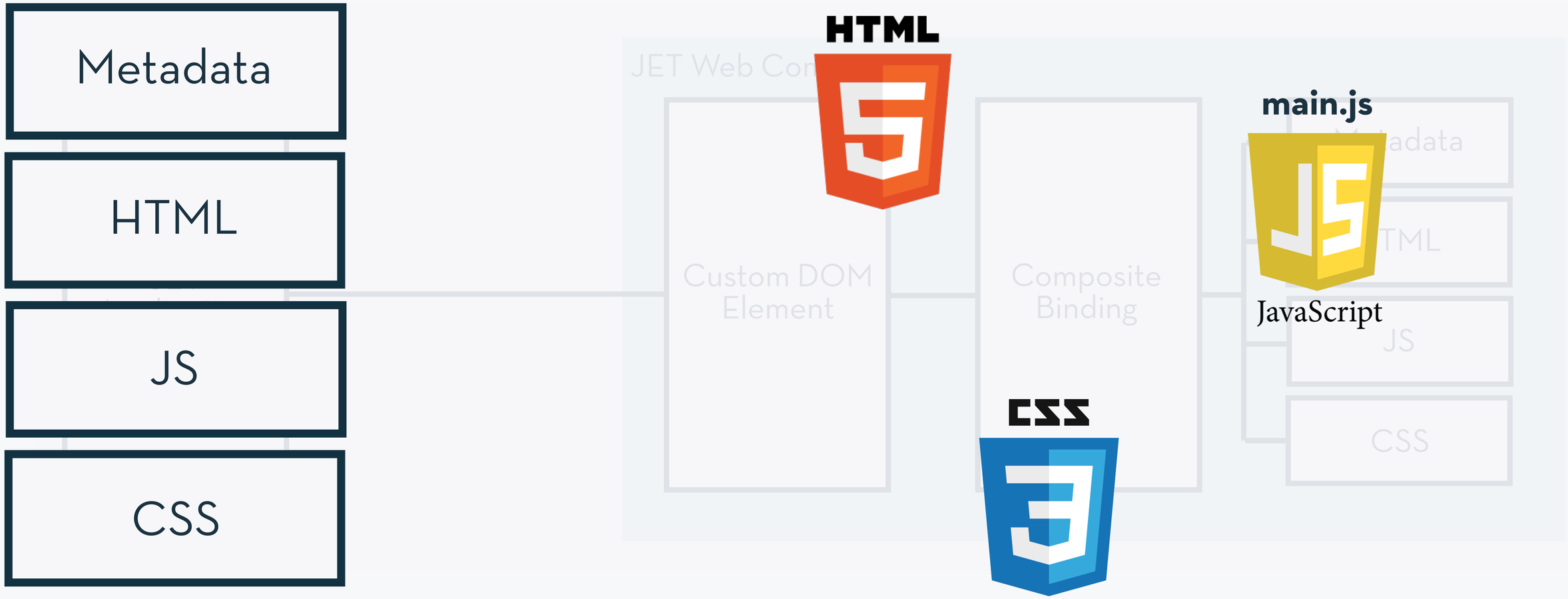



```
<my-web-component attribute1="value1"
                  attribute2="[[value2]]"
                  attribute3="{{value3}}">
</my-web-component>
```

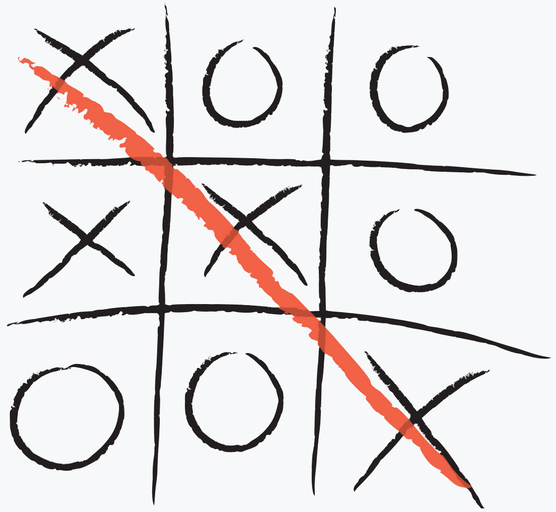
JET Web Component Architecture



JET Web Component Architecture



Interactive Grid



1

ORACLE®

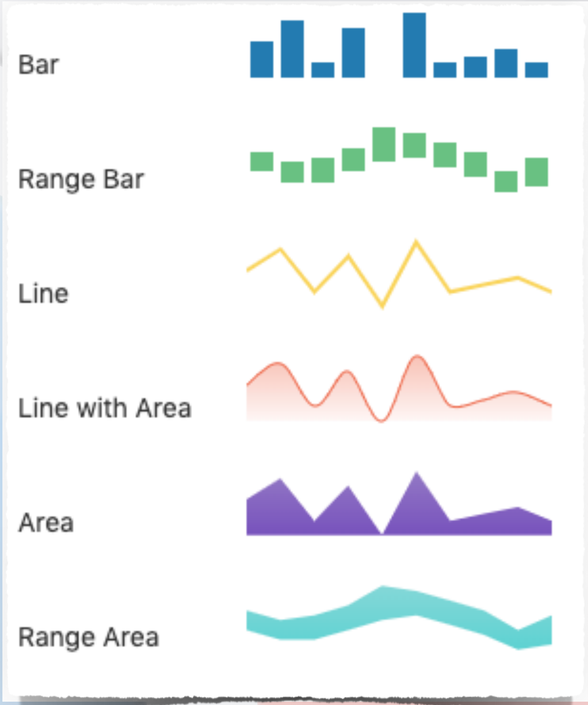
JET Developer Cookbook

1

2

JS Doc
JavaScript

ORACLE®
JET Developer Cookbook



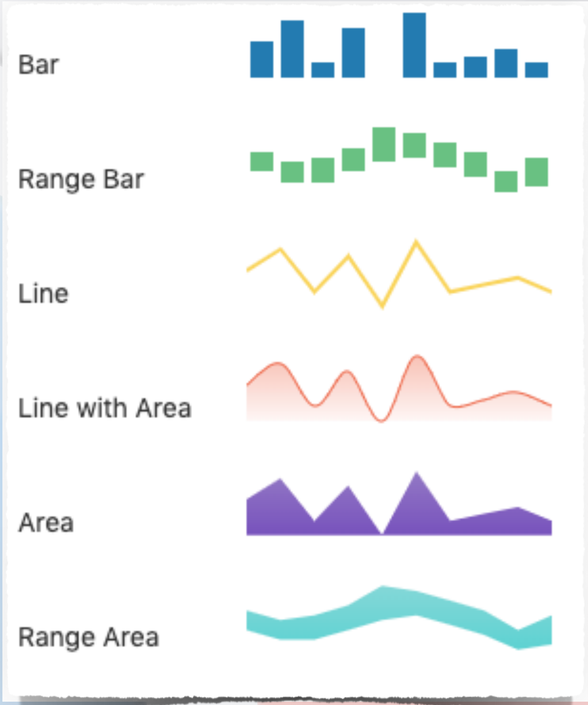
1

2

3

JS Doc
JavaScript

ORACLE®
JET Developer Cookbook




```
<oj-spark-chart
  type='line'
  items='[5, 8, 2, 7, 0, 9]'
>
</oj-spark-chart>
```

create region with

Static Content

Identification

Title: My JET Spark Chart

Type: Static Content

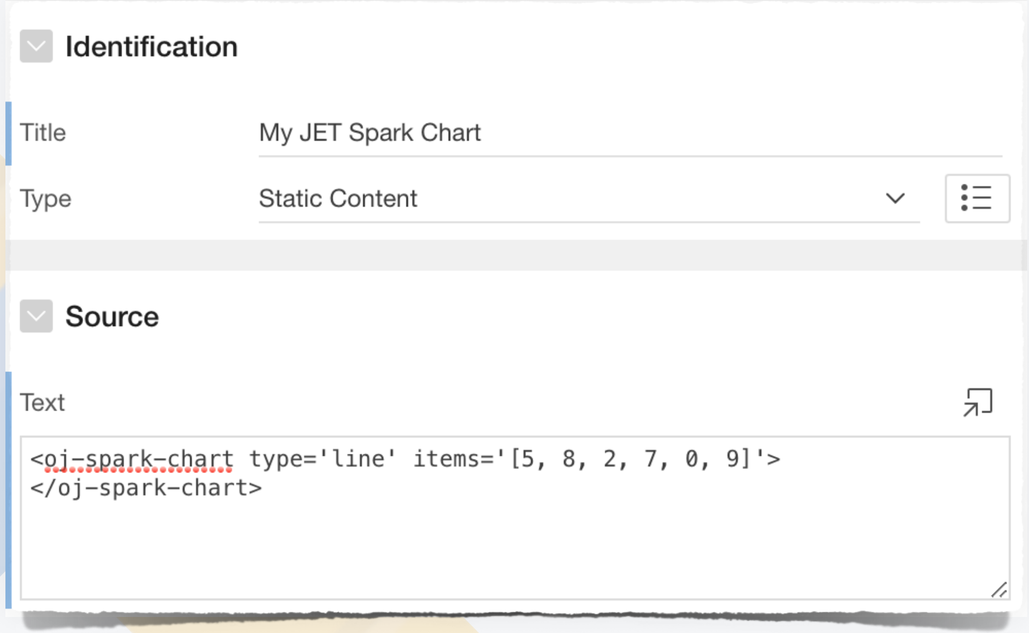
Source

Text

```
<oj-spark-chart type='line' items='[5, 8, 2, 7, 0, 9]'>
</oj-spark-chart>
```

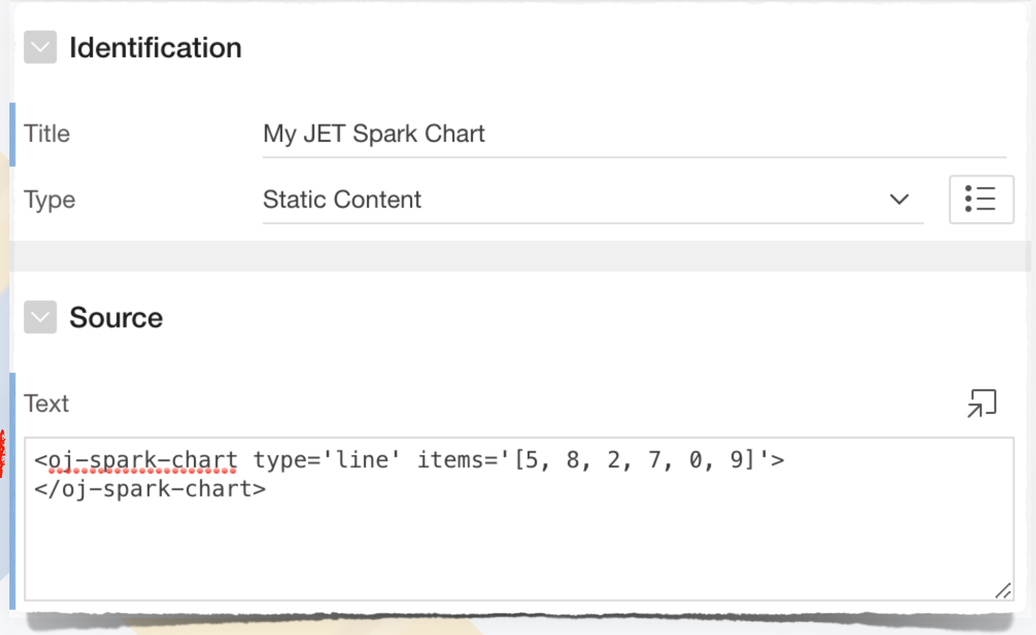
create region with
Static Content

```
<oj-spark-chart
  type='line'
  items='[5, 8, 2, 7, 0, 9]'
>
</oj-spark-chart>
```



create region with
Static Content

```
<oj-spark-chart
  type='line'
  items='[5, 8, 2, 7, 0, 9]'
>
</oj-spark-chart>
```



create region with
Static Content

```
<oj-spark-chart
  type='line'
  items='[5, 8, 2, 7, 0, 9]'
>
</oj-spark-chart>
```

Identification

Title: My JET Spark Chart

Type: Static Content

Source

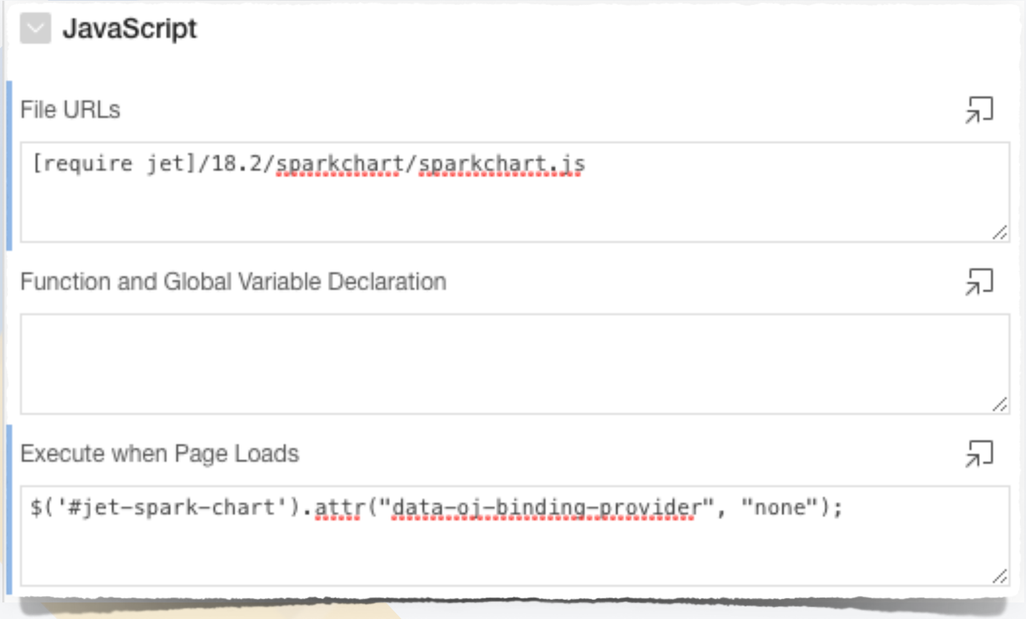
Text

```
<oj-spark-chart type='line' items='[5, 8, 2, 7, 0, 9]'>
</oj-spark-chart>
```

Advanced

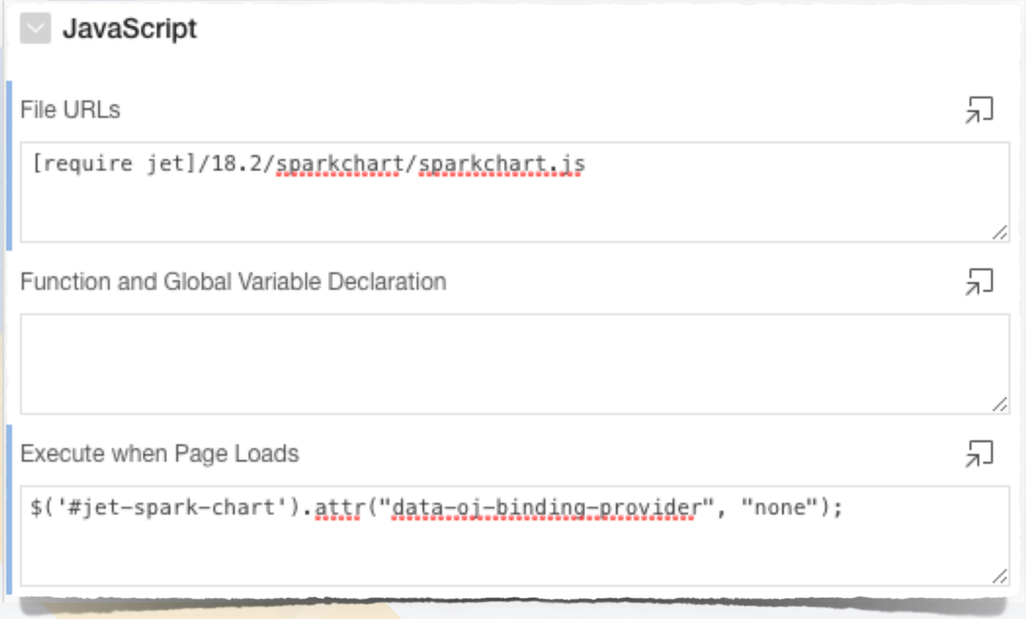
Static ID: jet-spark-chart

set custom JavaScript and CSS on page



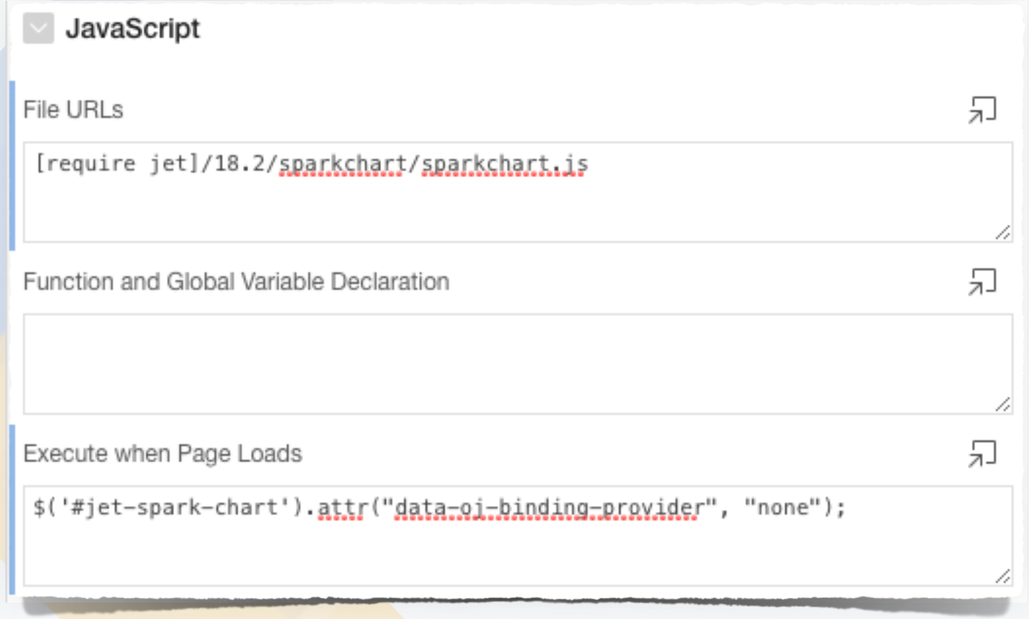
set custom JavaScript and CSS on page

```
[require jet]/18.2/sparkchart/sparkchart.js
```



set custom JavaScript and CSS on page

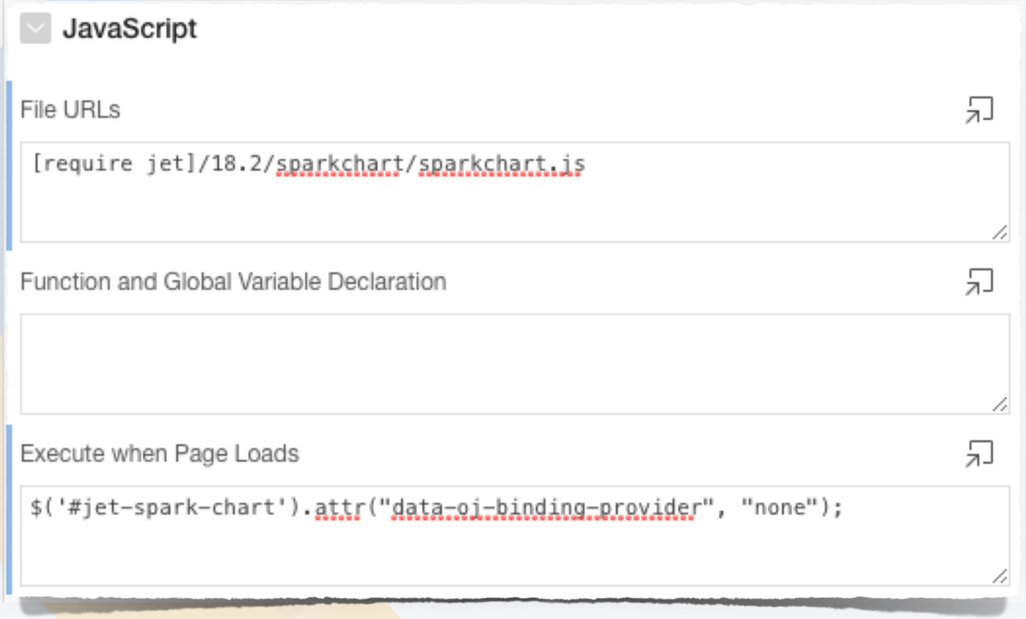
```
[require jet]/18.2/sparkchart/sparkchart.js
```



set custom JavaScript and CSS on page

```
[require jet]/18.2/sparkchart/sparkchart.js
```

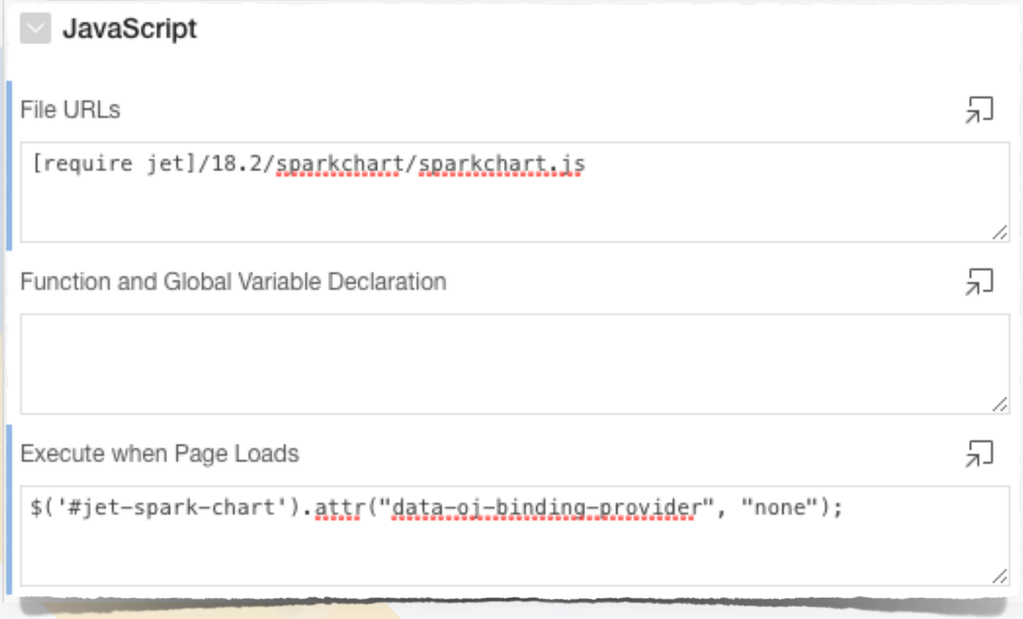
```
$('#jet-spark-chart')
    .attr('data-oj-binding-provider','none')
```



set custom JavaScript and CSS on page

```
[require jet]/18.2/sparkchart/sparkchart.js
```

```
$('#jet-spark-chart')
    .attr('data-oj-binding-provider','none')
```



set custom JavaScript and CSS on page

set custom JavaScript and CSS on page

```
#JET_CSS_DIRECTORY#
    alta/oj-alta-notag-min.css
```

set custom JavaScript and CSS on page

```
#JET_CSS_DIRECTORY#
    alta/oj-alta-notag-min.css
```

set custom JavaScript and CSS on page

```
#JET_CSS_DIRECTORY#
   alta/oj-alta-notag-min.css
```

```
.inline-spark {
    display: inline-block;
    width: 100px;
    height: 24px;
    vertical-align: middle;
}
.cell-spark {
    width: 100%;
}
```

set custom JavaScript and CSS on page

```
#JET_CSS_DIRECTORY#
   alta/oj-alta-notag-min.css
```

```
.inline-spark {
    display: inline-block;
    width: 100px;
    height: 24px;
    vertical-align: middle;
}
.cell-spark {
    width: 100%;
}
```

create .js file to load JET ojChart component

```
[require jet]/18.2/sparkchart/sparkchart.js
```

create .js file to load JET ojChart component

```
[require jet]/18.2/sparkchart/sparkchart.js
```

create .js file to load

JET ojChart

component

```
[require jet]/18.2/sparkchart/sparkchart.js
```

```
require(["ojs/ojchart"]
        , function(){} );
```

My JET Spark Chart

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Mauris sodales ultricies risus sed pulvinar. Donec finibus augue libero, eu rhoncus tortor ultricies id. Aenean neque orci, varius a efficitur eget, facilisis sit amet urna. Maecenas placerat sollicitudin nibh, vel molestie velit vestibulum eget. Nullam ac commodo nulla, id accumsan velit. Suspendisse sem neque, dictum quis ipsum nec, lacinia pretium sem. Maecenas in eros sagittis, mollis enim eget, dictum leo.

Modifying Chart Data

Modifying Chart Data

```
<oj-spark-chart
  type='line'
  items='[5, 8, 2, 7, 0, 9]'
>
</oj-spark-chart>
```

Modifying Chart Data

```
$('#jet-spark-chart')[0].items = [1,3,2,4,5,6,1,4,3,4,5,2.5];
```

Modifying Chart Data

```
$('#jet-spark-chart')[0].items = [1,3,2,4,5,6,1,4,3,4,5,2.5];
```

```
document.getElementById('jet-spark-chart').items = [1,3,2,4,5,6,1,4,3,4,5,2.5];
```

Interactive Grid
column settings

Identification

Column Name: VIEWS_BY_DAY

Type: HTML Expression

Settings

HTML Expression

```
<oj-spark-chart id="sparkLine1"
  type="line"
  items="&VIEWS_BY_DAY."
  color="blue"
  line-width="2"
  class="cell-spark"></oj-spark-chart>
```

Interactive Grid
column settings

Identification

Column Name VIEWS_BY_DAY

Type HTML Expression

Settings

HTML Expression

```
<oj-spark-chart id="sparkLine1"
  type="line"
  items="&VIEWS_BY_DAY."
  color="blue"
  line-width="2"
  class="cell-spark"></oj-spark-chart>
```

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Column Name: VIEWS_BY_DAY

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  line-width="2"
  class="cell-spark"></oj-spark-chart>
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Interactive Grid
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Column Name: VIEWS_BY_DAY

Type: HTML Expression

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HTML Expression

```
<oj-spark-chart id="sparkLine1"
  type="line"
  items="&VIEWS_BY_DAY."
  color="blue"
  line-width="2"
  class="cell-spark"></oj-spark-chart>
```

Interactive Grid
column settings

Search: All Text Columns | Go | Actions | Reset

Application Id	Application Name	Total Views	Views By Day
101	Financiële Administratie	509	
113	Sample Charts	84	
82074	Plugins by Alan Arentsen	288	
116	JET another presentation, why oh …	135	

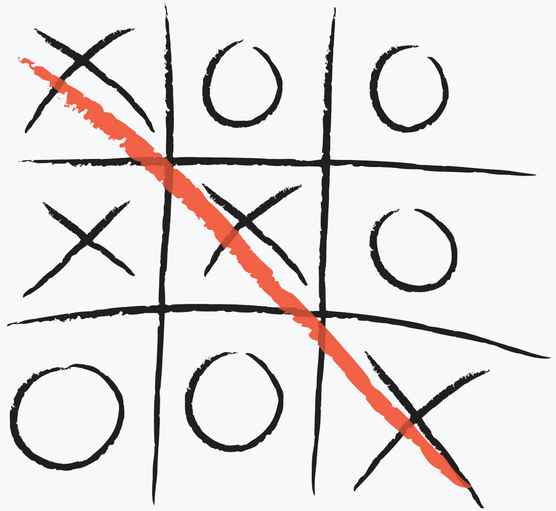
Total 4

Charts

Items

Plugins

Interactive Grid



DEMO

Alan Arentsen

alan.arentsen@database-consultancy.com

www.database-consultancy.com