

# JavaScript

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JavaScript 2 **JavaScriptCSSCSS**

JavaScript Yellowfin/js/chartingLibraries/JavaScript

CSS Yellowfin mycompanyname\_chart\_textcolour

<b>JavaScript</b>	JavaScript
<b>CSS</b>	CSS

JavaScript 2

- **JavaScript**
- **JavaScript**

JavaScript JavaScript

JavaScript

## JavaScript

JavaScript

- **JavaScript**
- **JavaScript JavaScriptCSS**
- **JavaScript**

JavaScript JavaScript

## generateChart

JavaScript **generateChart** Yellowfin JavaScript **generateChart**

Yellowfin Options JSON generateChart

divOptions.divSelectorID

## JavaScript

JavaScriptOptionsdiv

```
generateChart = function(options) {  
  
    // This is the div you draw your chart  
    // into  
    var $chartDrawDiv = $(options.  
    divSelector);  
  
    // This gets the height and width from  
    // the dataset. Use these when creating your  
    // chart so that  
    // it will fit the dashboard, canvas and  
    // storyboard correctly  
    var height = options.dataset.chart_  
    information.height;  
    var width = options.dataset.chart_  
    information.width;  
  
    $chartDrawDiv.height(height);  
    $chartDrawDiv.width(width);  
  
    // This sets the background colour to  
    // purple  
    $chartDrawDiv.css({  
        'background-color': 'purple'  
    });  
}
```

## RequireShim

JavaScript **Require**JavaScript API

Require

```
require(['js/chartingLibraries/d3/d3'],  
       function(d3) {  
           // Your code here which uses d3  
       });
```

AMD JavaScript ShimYellowfinShim

ShimJS

ShimAMDVizJS

```
requirejs.config({
    shim: {
        'js/chartingLibraries/viz.
v1.1.2.min': {
            // once loaded, use this as the
            global module value
            exports: 'viz'
        }
    }
});

require(['js/chartingLibraries/d3_3.5.17/
d3_3.5.17','js/chartingLibraries/viz.
v1.1.2.min'], function(d3,viz) {
```

Options JSON

```

"divSelector": "#jschart39614",
"chartId": 60934,
"errorCallback": function(){},
"dataset": {
    "chart_information": {
        "width": 2004,
        "height": 751,
        "title": "Custom Chart Title"
    },
    "metadata": {
        "camp_region": {
            "data_type": "TEXT",
            "field_name": "Camp Region"
        },
        "camp_rating": {
            "metric_colour": "#99cc00",
            "data_type": "NUMERIC",
            "field_name": "Average Camp
Rating"
        },
        "demographic": {
            "data_type": "TEXT",
            "field_name": "Demographic",
            "org_refcode": "DEMOGRAPHIC"
        }
    },
    "data": {
        "camp_region": [
            {
                "formatted_data": "Asia",
                "raw_data": "Asia"
            },
            {
                "formatted_
data": "Australia",
                "raw_data": "Australia"
            }
        ],
        "camp_rating": [
            {
                "formatted_data": "4.77",
                "raw_data": 4.77
            },
            {
                "formatted_data": "5.01",
                "raw_data": 5.01
            }
        ]
    }
}

```

```

},
...
],
"demographic": [
{
    "formatted_data": "Culture",
    "raw_data": "Culture"
},
{
    "formatted_
data": "Relaxation",
    "raw_data": "Relaxation"
},
....
]
},
"attributes": {
    "default_colours": [
        "#009eec",
        "#7ccb00",
        ...
    ],
    "orgrefcode_definitions": {
        "Adventure": {
            "colour": "#009eec",
            "display_text": "Adventure",
            "sort_order": "2"
        },
        "Culture": {
            "colour": "#c63828",
            "display_text": "Culture",
            "sort_order": "3"
        },
        ...
    }
}

```

## 1. divSelector (options.divSelector)

divIDCSSjQueryD3CSS

JQuerydiv

```
var $chartDrawDiv = $(options.divSelector);
```

## 2. chartId (options.chartId)

Yellowfin ID

### 3. errorCallback (options.errorCallback)

YellowfinJavaScript Yellowfin

### 4. dataset (options.dataset)

#### 4.1 chart\_information (options.dataset.chart\_information)

- JavaScript API
- JavaScript

#### 4.2 metadata (options.dataset.metadata)

data_type	TEXTNUMERIC
field_name	
metric_colour	HEX#FFFFFFmetric_colour
org_refcode	JavaScript <b>DEMOGRAPHIC</b> orgrefcode_definitions

#### 4.3 data (options.dataset.data)

raw_data	
formatted_data	options.dataset.data.camp_regionoptions.dataset.data.camp_rating

#### 4.4 attributes (options.dataset.attributes)

default_colours	
orgrefcode_definitions	

JavaScript

- JavaScript
- CSS
- 
- JavaScript

JavaScript JavaScriptCSS

JavaScript generateChartJavaScript IDdivSelectorerrorCallback

CSS div

try/catch

Yellowfin

JavaScript

processDatademographiccamp rating

```
processData = function(dataset) {
    var newDataset = {};
    for(var i=0; i<dataset['camp_rating'].length; i++){
        // Gets the demographic value from
        // the dataset for this data row
        var demographic =
        dataset['demographic'][i].formatted_data;

        // Either adds the demographic to our
        // dataset with the current
        // camp rating, or retrieves an
        // existing total for this
        // demographic and adds the camp
        // rating value
        if(newDataset.
            hasOwnProperty(demographic)){
            newDataset[demographic] +=
            dataset['camp_rating'][i].raw_data;
        } else {
            newDataset[demographic] =
            dataset['camp_rating'][i].raw_data;
        }
    }

    return newDataset;
}
```

processData

• /

D3.js SunburstBubble Cloudflare.json options. dataset. dataYellowfin

1.  
2.

```
var datas = options.dataset.data;

// transform each field to contain
it's name
var fields = Object.keys(datas).
map(function(fieldName) {
    return datas[fieldName].
map(function(value) {
    let object = {};
    object[fieldName] = value;
    return object;
});
});

// use d3.zip to transpose
var zipped = d3.zip.apply(null,
fields);

// merge objects in array
var result = zipped.
map(function(objects) {
    return Object.assign.apply(null,
objects);
});

return result;
```

GoogleCharts

```
[‘Year’, ‘Sales’, ‘Expenses’, ‘Profit’],  
[‘2014’, 1000, 400, 200],  
[‘2015’, 1170, 460, 250],  
[‘2016’, 660, 1120, 300],  
[‘2017’, 1030, 540, 350]
```

options.dataset.datademographicinvoiced amount

```
    var ds = [[options.dataset.  
metadata.demographic.fieldname,  
          options.dataset.  
metadata.invoiced_amount.fieldname]];  
  
    var dataset = options.dataset.  
data;  
  
    // push data into ds  
    for (var i = 0; i < dataset.  
demographic.length; i++) {  
        ds.push([  
            dataset.  
demographic[i].formatted_data,  
            parseFloat(dataset.  
invoiced_amount[i].raw_data)  
        ]);  
    }  
  
    return google.visualization.  
arrayToDataTable(ds);
```

JavaScript

- [JavaScript debugger](#)
- [CSS](#)
- [js](#)
- [Chart](#)
- [No Overflow](#)
- [Yellowfin](#)
- [div](#)

```
$(options.divSelector).  
addClass('jsChartNoOverflow');
```

try/catchYellowfinJavaScript

```
try {  
    // Your chart draw code  
here  
} catch(err){  
    options.  
errorCallback(err);  
}
```

- JavaScript

```
console.log(result);
```

- JavaScript Options JSONJSON

```
JSON.stringify(options);
```

JSONJSON

<https://jsonformatter.curiousconcept.com/>

JavaScript

- JavaScriptYellowfinJavaScript
- JavaScript