

## Custom Widget: PieChart

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### Introduction

The PieChart custom widget allows users to show their data in a pie graphic way. This Custom Widget was completely based in the d3pie and we encourage you to visit their web site ([d3pie.org](http://d3pie.org)) for more information of how to configure the available properties.

### Interfaces

#### Properties:

Property	Action	Value
headerTitleText	Set	See the <a href="#">Properties Value</a> session
headerTitleColor	Set	See the <a href="#">Properties Value</a> session
headerTitleFontSize	Set	See the <a href="#">Properties Value</a> session
headerTitleFont	Set	See the <a href="#">Properties Value</a> session
headerSubtitleText	Set	See the <a href="#">Properties Value</a> session
headerSubtitleColor	Set	See the <a href="#">Properties Value</a> session
headerSubtitleFontSize	Set	See the <a href="#">Properties Value</a> session
headerSubtitleFont	Set	See the <a href="#">Properties Value</a> session
headerLocation	Set	See the <a href="#">Properties Value</a> session

headerTitleSubtitlePadding	Set	See the <a href="#">Properties Value</a> session
footerText	Set	See the <a href="#">Properties Value</a> session
footerColor	Set	See the <a href="#">Properties Value</a> session
footerFontSize	Set	See the <a href="#">Properties Value</a> session
footerFont	Set	See the <a href="#">Properties Value</a> session
footerLocation	Set	See the <a href="#">Properties Value</a> session
sizePieInnerRadius	Set	See the <a href="#">Properties Value</a> session
sizePieOuterRadius	Set	See the <a href="#">Properties Value</a> session
dataSortOrder	Set	See the <a href="#">Properties Value</a> session
dataSmallSegmentGroupingEnabled	Set	See the <a href="#">Properties Value</a> session
dataSmallSegmentGroupingValue	Set	See the <a href="#">Properties Value</a> session
dataSmallSegmentGroupingValueType	Set	See the <a href="#">Properties Value</a> session
dataSmallSegmentGroupingLabel	Set	See the <a href="#">Properties Value</a> session
dataSmallSegmentGroupingColor	Set	See the <a href="#">Properties Value</a> session
dataContent	Set	See the <a href="#">Properties Value</a> session
labelsOuterFormat	Set	See the <a href="#">Properties Value</a> session
labelsOuterHideWhenLessThanPercentage	Set	See the <a href="#">Properties Value</a> session
labelsOuterPieDistance	Set	See the <a href="#">Properties Value</a> session
labelsInnerFormat	Set	See the <a href="#">Properties Value</a> session
labelsInnerHideWhenLessThanPercentage	Set	See the <a href="#">Properties Value</a> session
labelsMainLabelColor	Set	See the <a href="#">Properties Value</a> session
labelsMainLabelFont	Set	See the <a href="#">Properties Value</a> session
labelsMainLabelFontSize	Set	See the <a href="#">Properties Value</a> session
labelsPercentageColor	Set	See the <a href="#">Properties Value</a> session
labelsPercentageFont	Set	See the <a href="#">Properties Value</a> session
labelsPercentageFontSize	Set	See the <a href="#">Properties Value</a> session
labelsPercentageDecimalPlaces	Set	See the <a href="#">Properties Value</a> session
labelsValueColor	Set	See the <a href="#">Properties Value</a> session
labelsValueFont	Set	See the <a href="#">Properties Value</a> session
labelsValueFontSize	Set	See the <a href="#">Properties Value</a> session
labelsLinesEnabled	Set	See the <a href="#">Properties Value</a> session
labelsLinesStyle	Set	See the <a href="#">Properties Value</a> session
labelsLinesColor	Set	See the <a href="#">Properties Value</a> session
labelsTruncationEnabled	Set	See the <a href="#">Properties Value</a> session
effectsLoadEffect	Set	See the <a href="#">Properties Value</a> session
effectsLoadSpeed	Set	See the <a href="#">Properties Value</a> session
effectsPullOutSegmentOnClickEffect	Set	See the <a href="#">Properties Value</a> session
effectsPullOutSegmentOnClickSpeed	Set	See the <a href="#">Properties Value</a> session
effectsPullOutSegmentOnClickSize	Set	See the <a href="#">Properties Value</a> session
effectsHighlightSegmentOnMouseover	Set	See the <a href="#">Properties Value</a> session
effectsHighlightLuminosity	Set	See the <a href="#">Properties Value</a> session

tooltipsEnabled	Set	See the <a href="#">Properties Value</a> session
tooltipsType	Set	See the <a href="#">Properties Value</a> session
tooltipsString	Set	See the <a href="#">Properties Value</a> session
tooltipsStylesFadeInSpeed	Set	See the <a href="#">Properties Value</a> session
tooltipsStylesBackgroundColor	Set	See the <a href="#">Properties Value</a> session
tooltipsStylesBackgroundOpacity	Set	See the <a href="#">Properties Value</a> session
tooltipsStylesColor	Set	See the <a href="#">Properties Value</a> session
tooltipsStylesBorderRadius	Set	See the <a href="#">Properties Value</a> session
tooltipsStylesFont	Set	See the <a href="#">Properties Value</a> session
tooltipsStylesFontSize	Set	See the <a href="#">Properties Value</a> session
tooltipsStylesPadding	Set	See the <a href="#">Properties Value</a> session
miscColorsBackground	Set	See the <a href="#">Properties Value</a> session
miscColorsSegments	Set	See the <a href="#">Properties Value</a> session
miscColorsSegmentStroke	Set	See the <a href="#">Properties Value</a> session
miscGradientEnabled	Set	See the <a href="#">Properties Value</a> session
miscGradientPercentage	Set	See the <a href="#">Properties Value</a> session
miscGradientColor	Set	See the <a href="#">Properties Value</a> session
miscCanvasPaddingTop	Set	See the <a href="#">Properties Value</a> session
miscCanvasPaddingRight	Set	See the <a href="#">Properties Value</a> session
miscCanvasPaddingBottom	Set	See the <a href="#">Properties Value</a> session
miscCanvasPaddingLeft	Set	See the <a href="#">Properties Value</a> session
miscPieCenterOffsetX	Set	See the <a href="#">Properties Value</a> session
miscPieCenterOffsetY	Set	See the <a href="#">Properties Value</a> session
miscCssPrefix	Set	See the <a href="#">Properties Value</a> session

#### Events:

Event	Description
onMouseoverSegment	Fired and the mouse gets over any chart segment.
onMouseoutSegment	Fired and the mouse gets out any chart segment.

## Properties Value

In this Custom Widgets the properties configuration is based in the d3pie. [Here](#) is the page where you can see how the d3pie handle their configuration. Below is an example of how you can use the d3pie configuration inside of the Custom Widget.

### D3Pie Style:

```
    "header": {  
      "title": {  
        "text": "Lots of Programming Languages",  
        "fontSize": 24,  
        "font": "open sans"  
      },  
      "subtitle": {  
        "text": "A full pie chart to show off label collision detection and resolution",  
        "color": "#999999",  
        "fontSize": 12,  
        "font": "open sans"  
      },  
      "titleSubtitlePadding": 9  
    },  
  },  
}
```

### Custom Widget Style:

Here are the respective properties used in the Custom Widget to represent the same behavior shown on the [D3Pie Style](#) session:

headerTitleText	"Lots of Programming Languages"
headerTitleFontSize	24
headerTitleFont	"open sans"
headerSubtitleText	"A full pie chart to show off label collision detection and resolution."
headerSubtitleColor	"#999999"
headerSubtitleFontSize	12
headerSubtitleFont	"open sans"
headerTitleSubtitlePadding	9

### Remarks

- Custom Widget will be able to represent only primitive values like string, float, and integer values.
- A json property like "{parent: {child: 1}}" will be translated as parentChild = 1
- Arrays are represented as strings respecting the original format:
  - o Ex: {property:[{a:1},{b2}]} translate to property = "[{a:1},{b2}]"

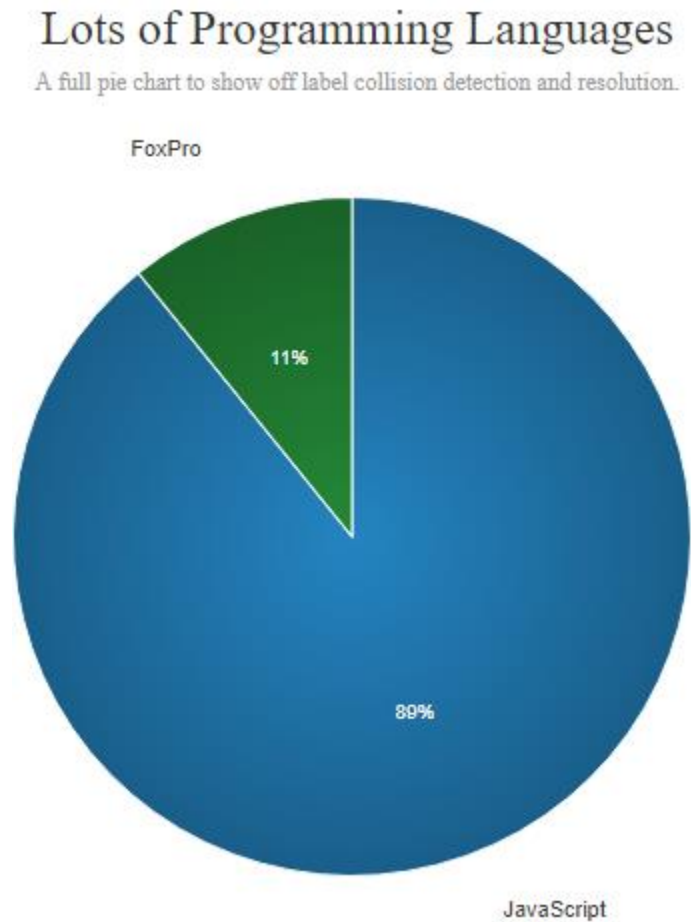
## Building a PieChart

headerTitleText	"Lots of Programming Languages"
headerTitleColor	"#333333"
headerTitleFontSize	24
headerTitleFont	"open sans"
headerSubtitleText	"A full pie chart to show off label collision detec..."
headerSubtitleColor	"#999999"
headerSubtitleFontSize	12
headerSubtitleFont	"open sans"
headerLocation	"top-center"
headerTitleSubtitlePadding	9
footerText	
footerColor	"#999999"
footerFontSize	10
footerFont	"open sans"
footerLocation	"bottom-left"
sizePieInnerRadius	0
sizePieOuterRadius	"90%"
dataSortOrder	"value-desc"
dataSmallSegmentGroupingEnabled	0
dataSmallSegmentGroupingValue	1
dataSmallSegmentGroupingValueType	"percentage"
dataSmallSegmentGroupingLabel	"Other"
dataSmallSegmentGroupingColor	"#cccccc"
dataContent	[ { "label": "JavaScript", "value": 264131, "color": "#2484c1" }, { "label": "FoxPro", "value": 32170, "color": "#248838" } ]
labelsOuterFormat	"label"
labelsOuterHideWhenLessThanPercentage	
labelsOuterPieDistance	32
labelsInnerFormat	"percentage"

labelsInnerHideWhenLessThanPercentage	3
labelsMainLabelColor	"#333333"
labelsMainLabelFont	"arial"
labelsMainLabelFontSize	11
labelsPercentageColor	"#ffffff"
labelsPercentageFont	"arial"
labelsPercentageFontSize	10
labelsPercentageDecimalPlaces	0
labelsValueColor	"#adadad"
labelsValueFont	"arial"
labelsValueFontSize	11
labelsLinesEnabled	1
labelsLinesStyle	"curved"
labelsLinesColor	1
labelsTruncationEnabled	1
effectsLoadEffect	"default"
effectsLoadSpeed	1000
effectsPullOutSegmentOnClickEffect	"linear"
effectsPullOutSegmentOnClickSpeed	400
effectsPullOutSegmentOnClickSize	8
effectsHighlightSegmentOnMouseover	1
effectsHighlightLuminosity	-0.2
tooltipsEnabled	0
tooltipsType	"placeholder"
tooltipsString	
tooltipsStylesFadeInSpeed	250
tooltipsStylesBackgroundColor	"#000000"
tooltipsStylesBackgroundOpacity	0.5
tooltipsStylesColor	"#efefef"
tooltipsStylesBorderRadius	2
tooltipsStylesFont	"arial"
tooltipsStylesFontSize	10
tooltipsStylesPadding	4
miscColorsBackground	
miscColorsSegments	"#2484c1,#1f79a7"
miscColorsSegmentStroke	"#ffffff"
miscGradientEnabled	1
miscGradientPercentage	100
miscGradientColor	"#000000"
miscCanvasPaddingTop	5
miscCanvasPaddingRight	5

miscCanvasPaddingBottom	5
miscCanvasPaddingLeft	5
miscPieCenterOffsetX	0
miscPieCenterOffsetY	0
miscCssPrefix	

The graphical representation of the PieChart described in the previous example should look like the following picture:



Remarks:

- The example above shows a complete configuration, but it does not mean that you must set all the properties to have the same result. Please reference to the [d3pie](#) documentation for more information.

## Map of Revisions

Revision	Date	Author	Description
A	February 24 <sup>th</sup> , 2017	Vicente Teodoro	Initial Revision