

jQuery Chart Plotting

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Overview

- Why Flot?
- Integration
 - Data
 - Options
- Chart Types
- Advanced Features
- Plugins
- Demo

Flot

- <http://flotcharts.org/>
- MIT License (compatible with Apache 2)
- Open source project started by Ole Laursen, maintained by David Schnur (Google)
- jQuery dependent
- Extensive plugin support
- Easy to start

Flot Integration

```
<script type="text/javascript" src="./jquery.js"></script>  
<script type="text/javascript" src="./jquery.flot.js"></script>
```

- Basic implementation

```
<div id="chartContainer" width="x" height="y"></div>  
  
<script type="text/javascript">  
    function draw(){  
        $("#chartContainer").plot(data, options);  
    }  
</script>
```

“data”

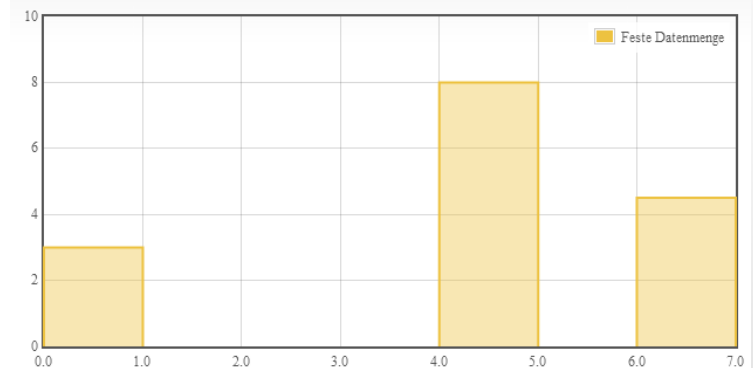
- Data is an list of tuples or objects

- Tupel: `[[0, 2], [1, 5]]`



- Object represents one series in the chart
 - Can use options to style single series

```
var data = [{  
  label: "Feste Datenmenge",  
  data: [[0, 3], [4, 8], [6, 4.5]],  
  bars: { show: true }  
}];
```

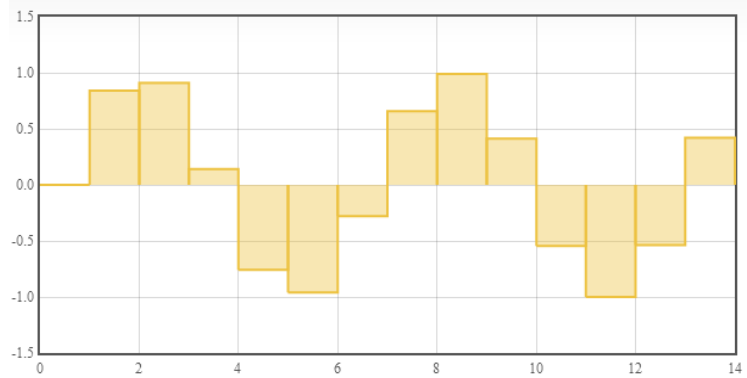
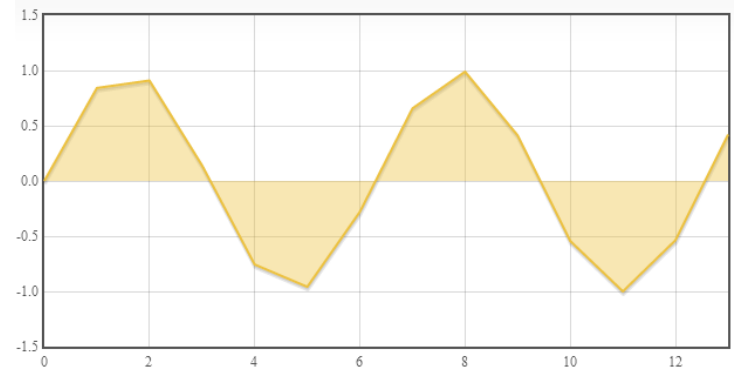
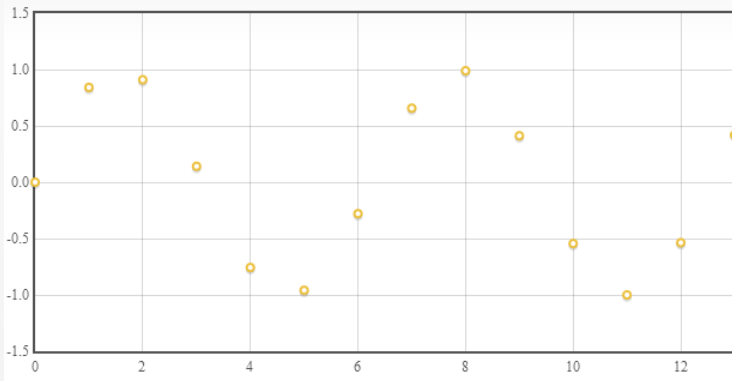


“options”

- General configuration for the whole chart
 - Options for single series in data object
- Possible options:
 - color
 - label
 - Lines*
 - bars*
 - points*
 - xaxis*
 - yaxis*
 - ...
- *) have specialized options

Integrated Chart Types

- Lines
 - steps
 - integral (filled)
- Bars
- Points



- More via plugins

Advanced Features

- Multiple axes
- JSON data source support
- HTML 5 canvas mode
- Implements jQuery hooks, e.g. click on chart
- API
- Plugin support

Plugins

- Just import the file and use additional methods
- Examples
 - Image Plotting
 - Extra symbols as points
 - Thresholds
 - Additional chart types, like pyramids, network, pie, bubble, gantt
 - Animations
 - Tooltips
 - Save as image
 - Multitouch gesture support
 - ...

DEMO

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