◆ Highcharts 气泡图

Highcharts 组合图 →

Highcharts 动态图

本章节我们将为大家介绍 Highcharts 的动态图。

我们在前面的章节已经了解了 Highcharts 配置语法。接下来让我们来看下 Highcharts 的其他配置。

每秒更新曲线图

chart.events

chart.event 属性中添加 load 方法(图表加载事件)。在 1000 毫秒内随机产生数据点并生成图表。

实例

文件名:highcharts_dynamic_spline.htm

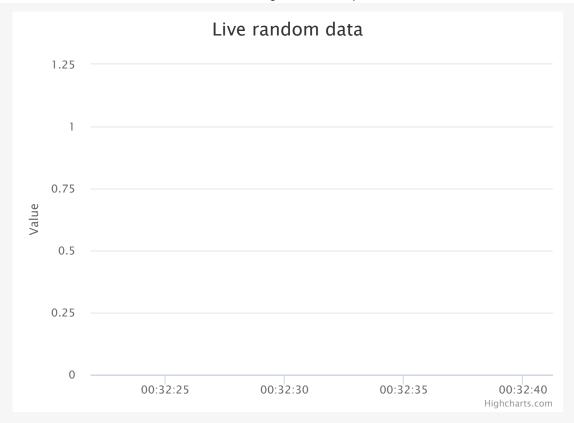
```
<html>
<head>
<meta charset="UTF-8" />
<title>Highcharts 教程 | 菜鸟教程(runoob.com)</title>
<script src="http://apps.bdimg.com/libs/jquery/2.1.4/jquery.min.js"></script>
<script src="http://code.highcharts.com/highcharts.js"></script></head>
<body>
<div id="container" style="width: 550px; height: 400px; margin: 0 auto"></div>
<script language="JavaScript">
$(document).ready(function() {
   var chart = {
      type: 'spline',
      animation: Highcharts.svg, // don't animate in IE < IE 10.
      marginRight: 10,
      events: {
         load: function () {
```

```
// set up the updating of the chart each second
         var series = this.series[0];
         setInterval(function () {
            var x = (new Date()).getTime(), // current time
            y = Math.random();
            series.addPoint([x, y], true, true);
         }, 1000);
   }
};
var title = {
   text: 'Live random data'
};
var xAxis = {
  type: 'datetime',
  tickPixelInterval: 150
};
var yAxis = {
  title: {
      text: 'Value'
   },
   plotLines: [{
      value: 0,
      width: 1,
      color: '#808080'
   }]
};
var tooltip = {
   formatter: function () {
   return '<b>' + this.series.name + '</b><br/>' +
      Highcharts.dateFormat('%Y-%m-%d %H:%M:%S', this.x) + '<br/>' +
      Highcharts.numberFormat(this.y, 2);
   }
};
var plotOptions = {
   area: {
      pointStart: 1940,
      marker: {
         enabled: false,
         symbol: 'circle',
         radius: 2,
         states: {
            hover: {
              enabled: true
            }
         }
};
```

```
var legend = {
      enabled: false
   var exporting = {
      enabled: false
   };
   var series= [{
      name: 'Random data',
      data: (function () {
         // generate an array of random data
         var data = [],time = (new Date()).getTime(),i;
         for (i = -19; i \le 0; i += 1) {
            data.push({
               x: time + i * 1000,
               y: Math.random()
            });
         return data;
      }())
   }];
   var json = {};
   json.chart = chart;
   json.title = title;
   json.tooltip = tooltip;
   json.xAxis = xAxis;
   json.yAxis = yAxis;
   json.legend = legend;
  json.exporting = exporting;
   json.series = series;
   json.plotOptions = plotOptions;
   Highcharts.setOptions({
      global: {
         useUTC: false
   });
   $('#container').highcharts(json);
});
</script>
</body>
</html>
```

尝试一下»

以上实例输出结果为:





通过点击添加数据

chart.events

在 chart.event 属性中添加 click 方法(整个图表的绘图区上所发生的点击事件)。该方法在图表绘图区上发生点击时会添加新的数据点。

```
chart: {
    events: {
        click: function (e) {
            // 获取点击坐标和数据项
            var x = e.xAxis[0].value,
            y = e.yAxis[0].value,
            series = this.series[0];
            // 添加点击的坐标
            series.addPoint([x, y]);
        }
    }
}
```

实例

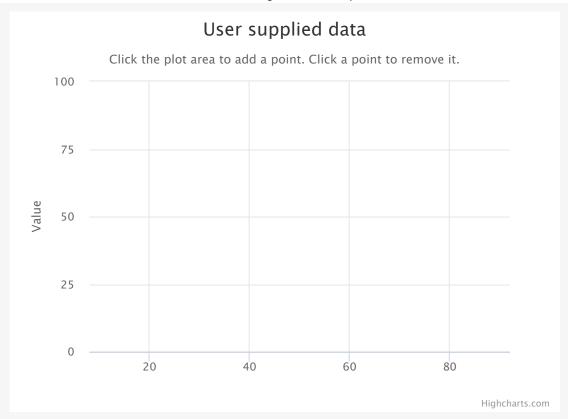
文件名: highcharts_dynamic_click.htm

```
<html>
<head>
<title>Highcharts 教程 | 菜鸟教程(runoob.com)</title>
   <script src="http://apps.bdimg.com/libs/jquery/2.1.4/jquery.min.js"></script>
   <script src="/try/demo_source/highcharts.js"></script>
</head>
<body>
<div id="container" style="width: 550px; height: 400px; margin: 0 auto"></div>
<script language="JavaScript">
$(document).ready(function() {
  var chart = {
      type: 'scatter',
      margin: [70, 50, 60, 80],
      events: {
         click: function (e) {
            // find the clicked values and the series
            var x = e.xAxis[0].value,
            y = e.yAxis[0].value,
            series = this.series[0];
            // Add it
            series.addPoint([x, y]);
      }
  };
   var title = {
      text: 'User supplied data'
   };
  var subtitle = {
      text: 'Click the plot area to add a point. Click a point to remove it.'
  };
   var xAxis = {
      gridLineWidth: 1,
      minPadding: 0.2,
      maxPadding: 0.2,
      maxZoom: 60
   };
   var yAxis = {
      title: {
         text: 'Value'
      minPadding: 0.2,
      maxPadding: 0.2,
      maxZoom: 60,
      plotLines: [{
         value: 0,
         width: 1,
         color: '#808080'
      }]
```

```
};
  var legend = {
      enabled: false
  };
  var exporting = {
      enabled: false
   var plotOptions = {
      series: {
         lineWidth: 1,
         point: {
            events: {
               'click': function () {
                  if (this.series.data.length > 1) {
                     this.remove();
   };
  var series= [{
     data: [[20, 20], [80, 80]]
  }];
  var json = {};
  json.chart = chart;
  json.title = title;
  json.subtitle = subtitle;
  json.xAxis = xAxis;
  json.yAxis = yAxis;
  json.legend = legend;
  json.exporting = exporting;
  json.series = series;
  json.plotOptions = plotOptions;
  $('#container').highcharts(json);
});
</script>
</body>
</html>
```

尝试一下»

以上实例输出结果为:



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