

# DataViz

Keith Burnell

@keburnell



# Agenda

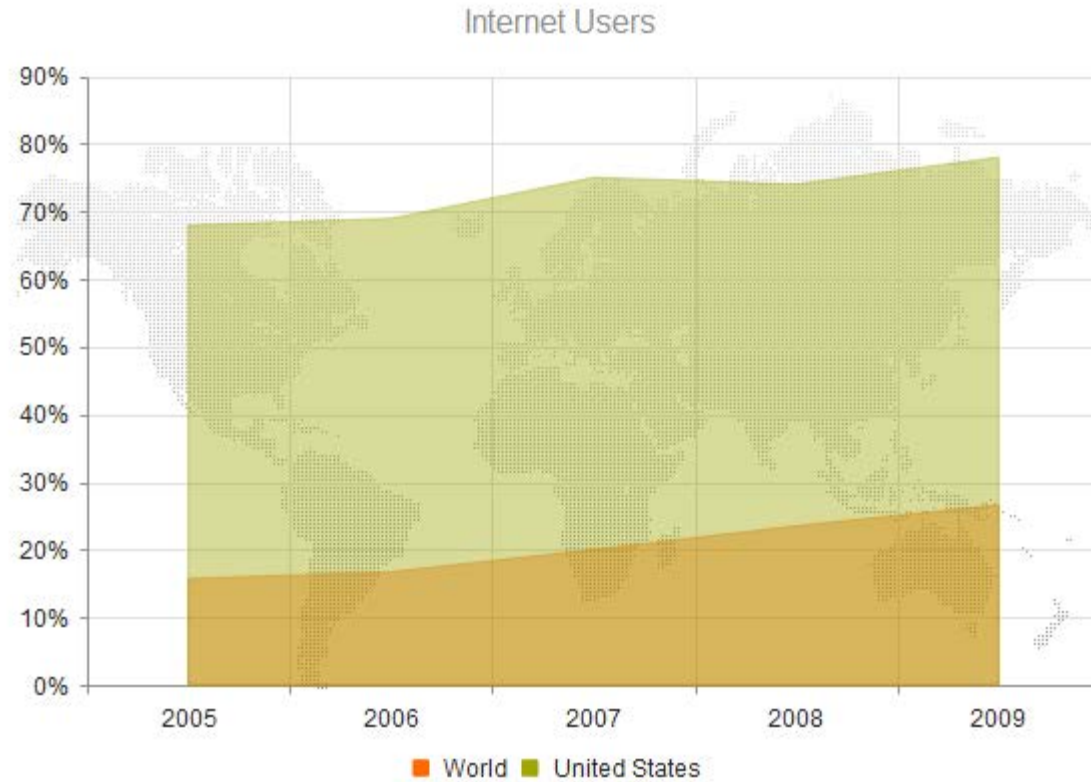
- What is DataViz?
- Charts
- Gauges

# What is DataViz?

- Set of UI controls (widgets)
- Powered by HTML5
- No plugins
- Rendered on the client
- Hardware accelerated
- Wide browser support including mobile

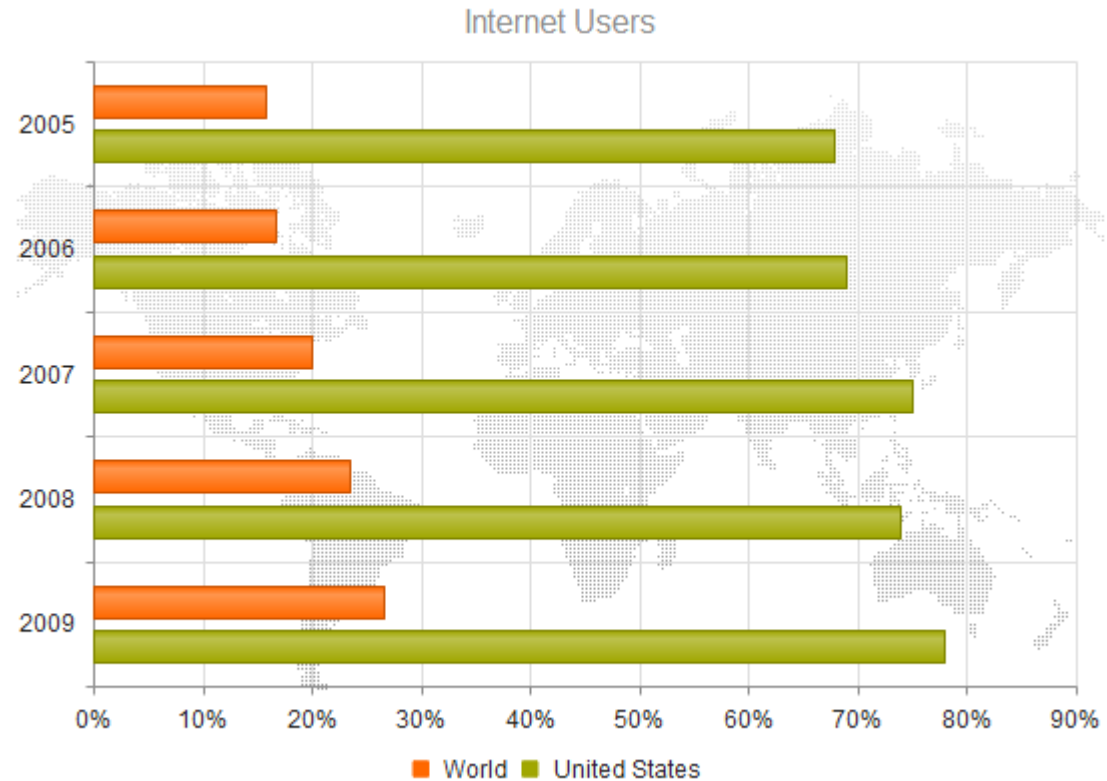
# Chart Types

- ➡ ■ Area
- Bar
- Bubble
- Donut
- Line
- Pie
- Scatter



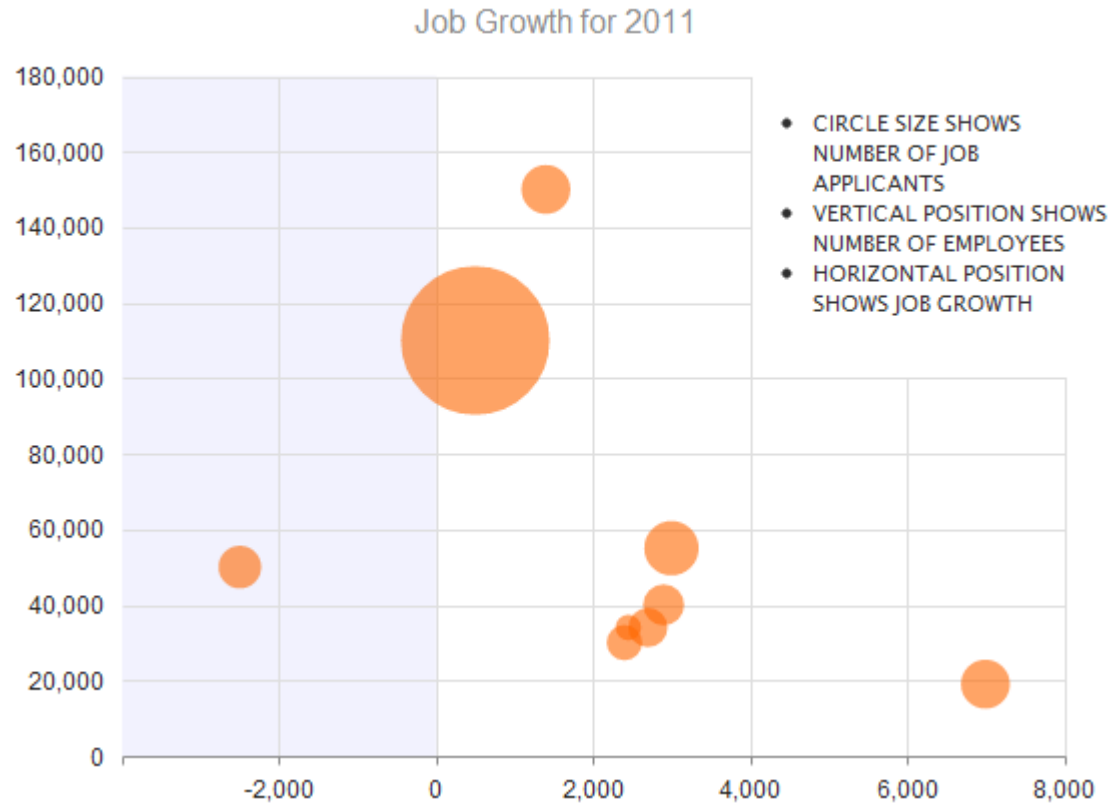
# Chart Types

- Area
- ➡ ■ Bar
- Bubble
- Donut
- Line
- Pie
- Scatter



# Chart Types

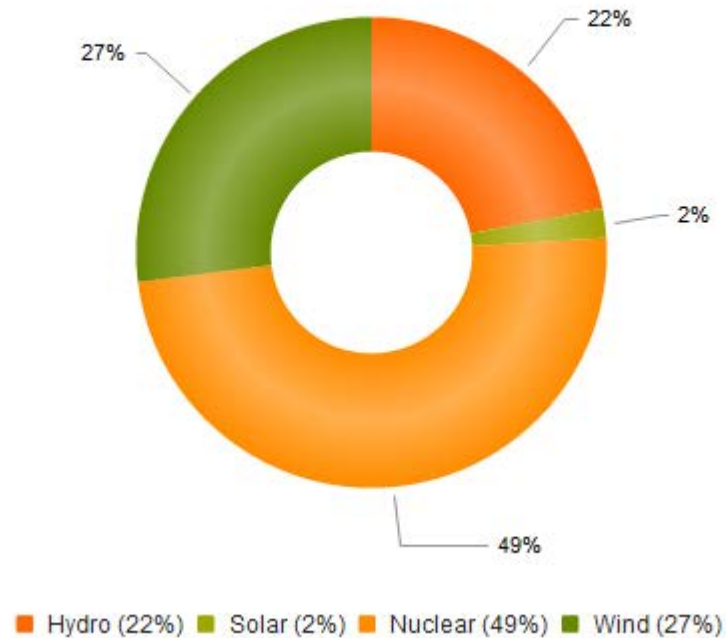
- Area
- Bar
- ➡ ■ Bubble
- Donut
- Line
- Pie
- Scatter



# Chart Types

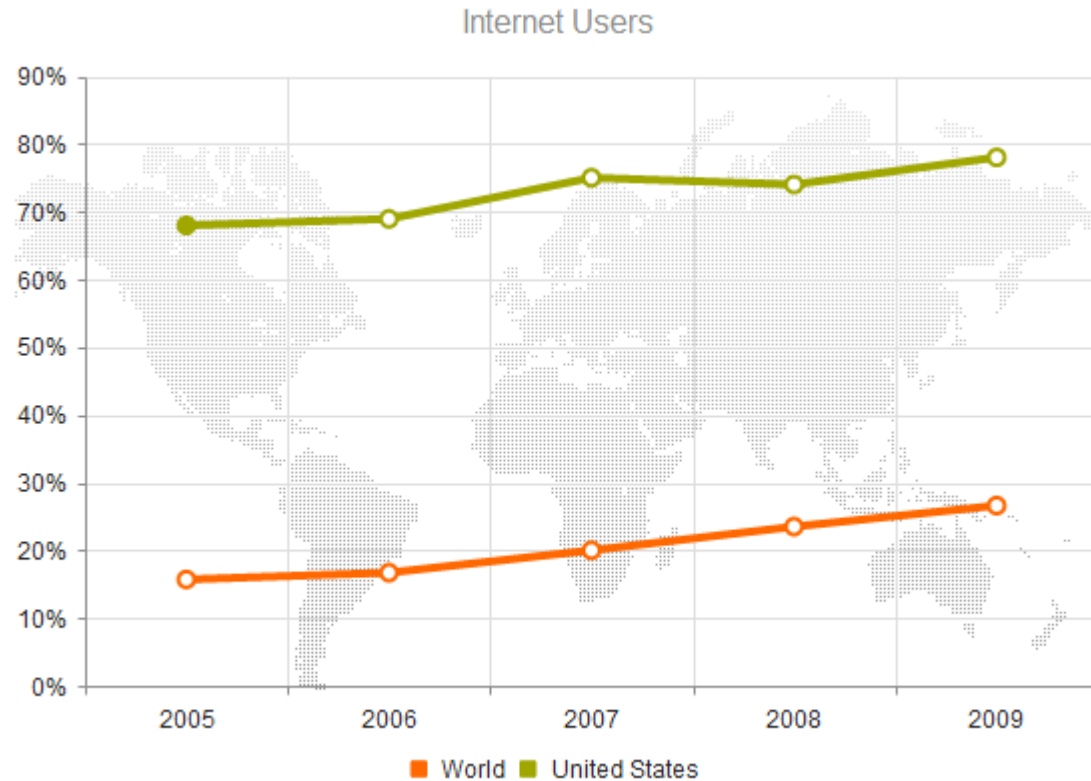
- Area
- Bar
- Bubble
- ➔ ■ Donut
- Line
- Pie
- Scatter

Break-up of Spain Electricity Production for 2008



# Chart Types

- Area
- Bar
- Bubble
- Donut
- ➡ ■ Line
- Pie
- Scatter

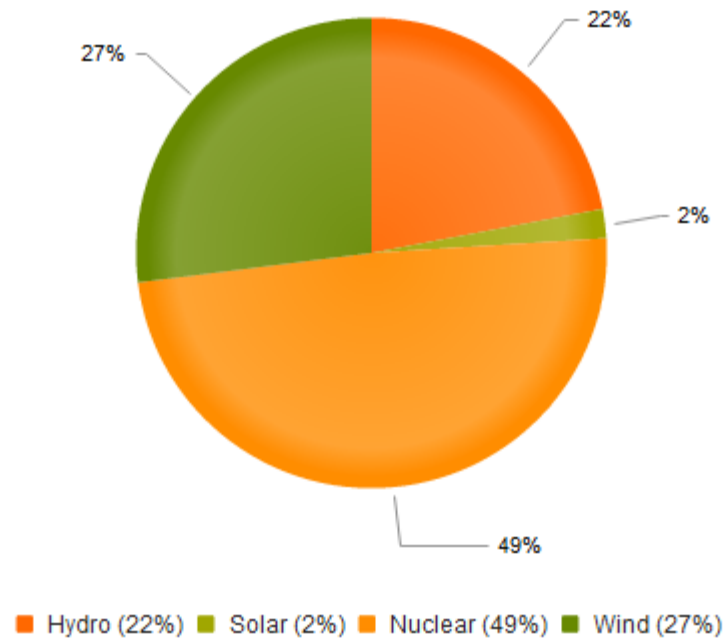




# Chart Types

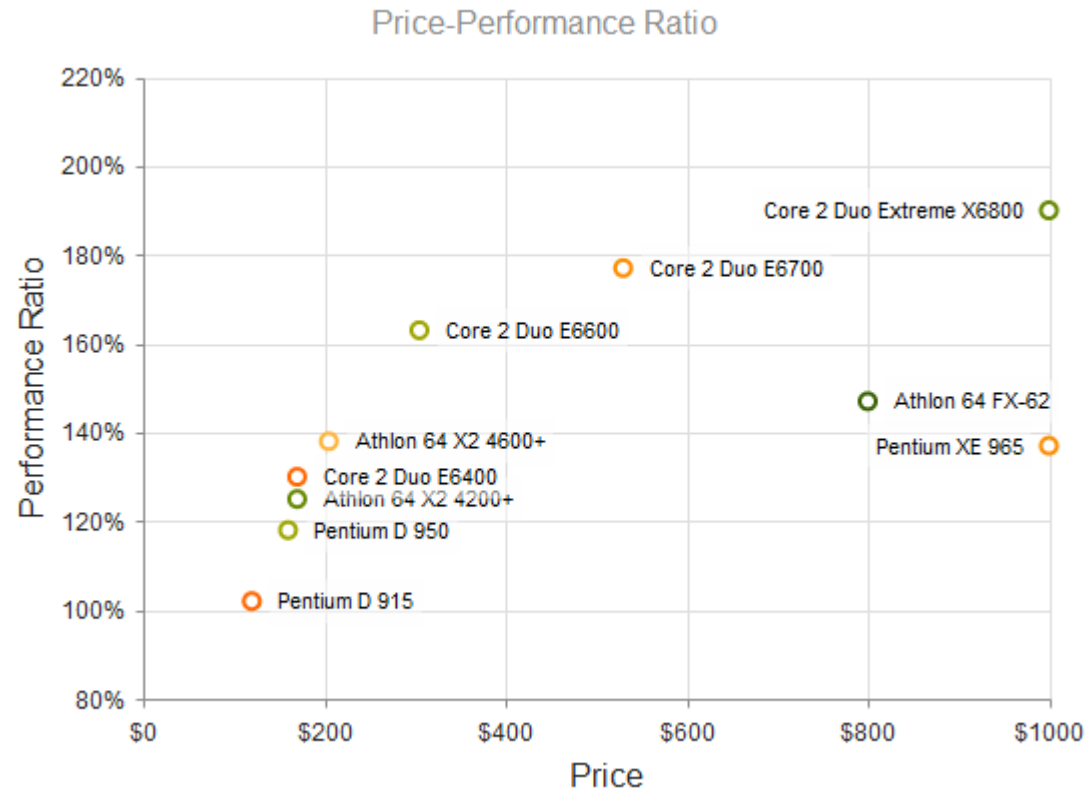
- Area
- Bar
- Bubble
- Donut
- Line
- ➡ ■ Pie
- Scatter

Break-up of Spain Electricity Production for 2008



# Chart Types

- Area
- Bar
- Bubble
- Donut
- Line
- Pie
- ➡ ■ Scatter



# Creating a Chart

## 1. Markup

```
<div id="chart"/>
```

## 2. Initialize

```
$("#chart").kendoChart();
```

# Local Data

## 1. Local

```
var chartData = [100, 149, 198, 223, 345];

$("#chart").kendoChart({
  series: [{ data: chartData}]
});
```

## 2. Local with DataSource

```
var dataSource = new kendo.data.DataSource({
  data: [{ value: 100 }, { value: 149 }, { value: 198 }]});

$("#chart").kendoChart({
  dataSource: dataSource,
  series: [{field: "value"}]
});
```

# Remote Data

```
var foobarData = new kendo.data.DataSource({
  transport: {
    read: {
      url: "http://www.foo.com/bar.json",
      dataType: "json"
    }
  }
});

$("#chart").kendoChart({
  dataSource: foobarData,
  series: [{ field: someDataField}]
});
```

# Chart Configuration

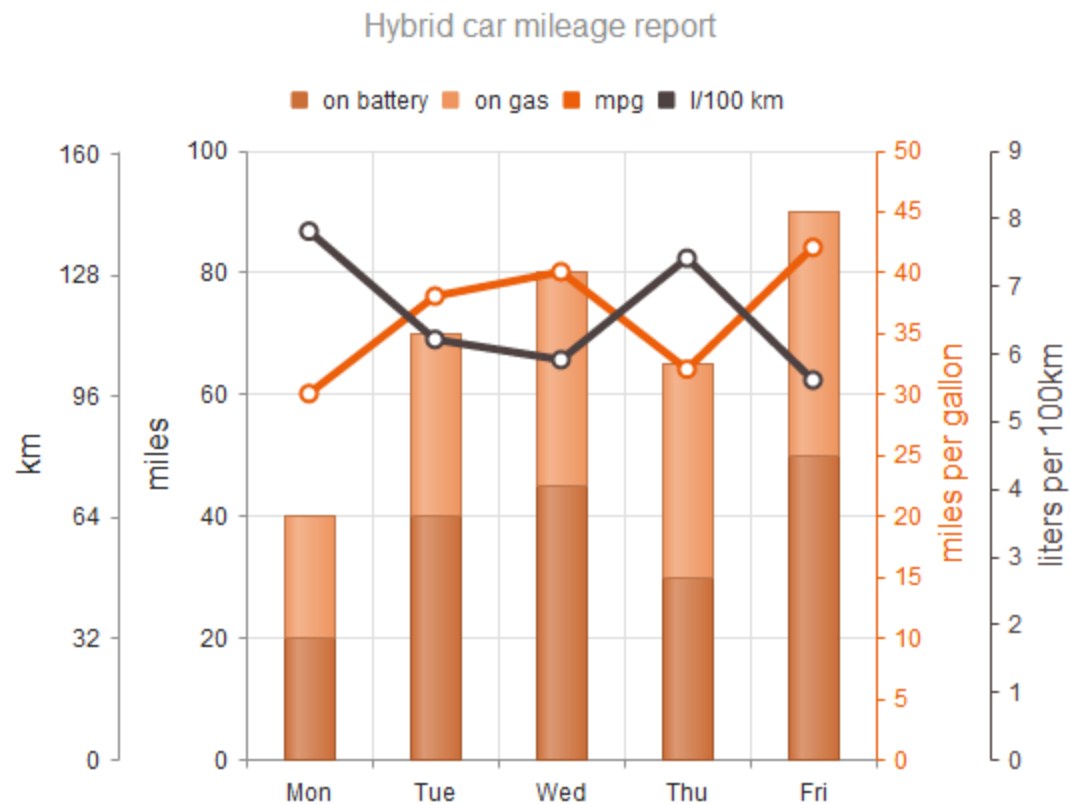
- Extensive configuration
- <http://docs.kendoui.com/api/dataviz/chart>

# Template Integration

- **Plug-in Points**
  - Category labels
  - Series labels
  - Value labels
  - Legend labels
  - Tooltip labels
- **Data is provided via the API**

# Multiple Axis Charts

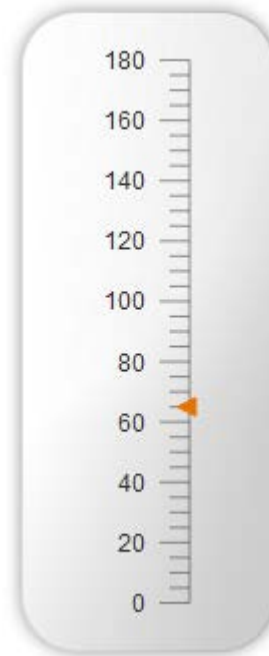
- Multiple datasets with different scales





# Gauges

- ➡ ▪ Linear gauge
- Radial gauge



# Gauges

- Linear gauge
- ➡ ■ Radial gauge



# Summary

- No plug ins – HTML5
- Rendered entirely on the client
- SVG with a fall back to VML
- 7 types of charts and 2 gauges