Data Visualization

> Home > Data Visualization

For example, if your website is specialized about surveys, a description about a survey is important. Data Visualization that summarizes the data of the survey is much more powerful for your users.

Other than common tabular format, we might want to display data in a more interesting graphical format such as bar, pie chart, line chart & etc. Merely an image format output is not enough because we also like to be able to interact with it.

Data visualization on web can be easily achieved using open source JavaScript library. There are many out there but we will focus on 2 of them today.

Peity Chart

Peity (sounds like deity) is a simple jQuery plugin that converts an element's content into a simple <svg> mini pie donut line or bar chart and is compatible with any browser that supports <svg>: Chrome, Firefox, IE9+, Opera, Safari.

Peity chart is useful when you need to insert chart/graph inline between your paragraph text with data from dynamic source fast and easily.

Download

http://benpickles.github.io/peity/

Example

```markup
<span class="pie">1/5</span>
<span class="pie">226/360</span>
<span class="pie">0.52/1.561</span>
<span class="pie">1,4</span>
<span class="pie">226,134</span>
<span class="pie">0.52,1.041</span>
<span class="pie">1,2,3,2,2</span>
```

```javascript
$("span.pie").peity("pie")
```

Labs: * Pie Chart - vi-peity-pie * Bar Chart - vi-peity-bar * Donut chart - vi-peity-donut * Line chart - vi-peity-line * Advance - vi-peity-advance

Chart.js

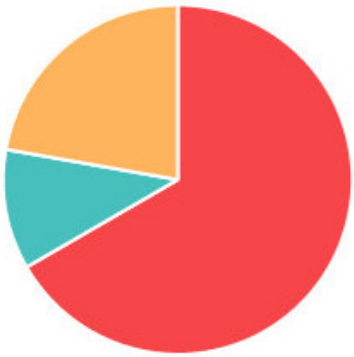
Chart.js is a JavaScript library that allows you to draw different types of charts by using the HTML5 canvas element.

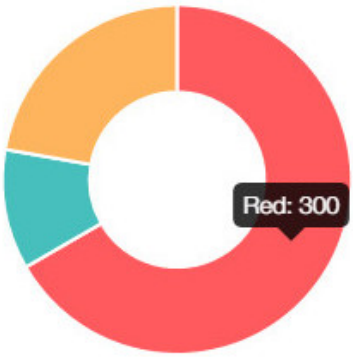
One of the cool feature of Chart.js is that the charts are responsive, so they will adapt based on the space available.

Download

http://www.chartjs.org/

Example





```javascript
var data = [
    {
        value: 300,
        color:"#F7464A",
        highlight: "#FF5A5E",
        label: "Red"
    },
    {
        value: 50,
        color: "#46BFBD",
        highlight: "#5AD3D1",
        label: "Green"
    },
    {
        value: 100,
        color: "#FDB45C",
        highlight: "#FFC870",
        label: "Yellow"
    }
]

// For a pie chart
var myPieChart = new Chart(ctx[0]).Pie(data,options);
// For a doughnut chart
var myDoughnutChart = new Chart(ctx[1]).Doughnut(data,options);
```

Labs:

- Pie Chart - vi-chartjs-pie
- Doughnut Chart - vi-chartjs-doughnut
- Bar Chart - vi-chartjs-bar