

# A BASIC TUTORIAL FOR PLOTLY.JS

## Methods for acquiring the Plotly Library:

git clone <https://github.com/plotly/plotly.js.git>

npm install plotly.js

<script src="https://cdn.plot.ly/plotly-latest.min.js">

## Documentation at:

<https://github.com/plotly/plotly.js>

<https://plot.ly/javascript/>

|                                       | GitHub repo               | Getting started                |
|---------------------------------------|---------------------------|--------------------------------|
| R / RStudio                           | ropensci/plotly           | plot.ly/r/getting-started      |
| Python / Pandas / IPython notebook    | plotly/plotly.py          | plot.ly/python/getting-started |
| MATLAB                                | plotly/matlab-api         | plot.ly/matlab/getting-started |
| node.js / Tonicdev / Jupyter notebook | plotly/plotly-notebook-js |                                |
| node.js cloud client                  | plotly/plotly-nodejs      | plot.ly/nodejs/getting-started |
| Julia                                 | plotly/Plotly.jl          | plot.ly/julia/getting-started  |

## 1 -PREPARE HTML:

```
<!DOCTYPE html>
<meta charset='utf-8'>
<head>
  <script src='https://cdn.plot.ly/plotly-latest.min.js'></script>
</head>

<body>
  <div id='tester' style='width:1200px;height:650px;'></div>

  <script type='text/javascript' src='data.js'></script>
  <script type='text/javascript' src='chart.js'></script>
</body>
```

## 2 -EXAMINE DATA:

```
var data = [
{
  "letter": "A",
  "frequency": 0.08167
}
```

## 3 -PREPARE JS:

```
var tester = document.getElementById('tester');
var container = [{
  'x': [], 'y': [],
  'type': 'bar'
}]
var j = data.length,
    i;
for (i = 0; i < j; i++) { // Preparing data format for Plotly chart
  container[0].x.push(data[i].letter);
  container[0].y.push(data[i].frequency);
}
var layout = {
  xaxis: {title: 'Letters'},
  yaxis: {
    title: 'Frequency',
    tickformat: ',.0%',
    range: [0,.15]
  },
  margin: {t: 20}
};
Plotly.newPlot(tester, container, layout);
```

