## **D3.js Visualizations**

```
is passed from Python for pageviews
sts = ''' + str(pageviews_deta).replace(''', ''') + ''';
          Set dimensions and margins
margin = {top: 20, right: 30, bottom: 40, left: 50},
width = 560 - margin.left - margin.right,
height = 400 - margin.top - margin.bottom;
             et up the y-axix
y = dl.scaletinear()
.domain([0, dl.max(bins, function(d) { return d.length; })})
.range([height, 0]);
             stackins; rect ;
stackins;
star().append("rect")
.attr("r", function(d) { return x(d.x0); })
.attr("y", function(d) { return y(d.length); })
.attr("width", function(d) { return x(d.x1) - x(d.x0) - 1; })
.attr("wight", function(d) { return height - y(d.length); })
.attr("class", "bar");
# Step 3: Display the D3.js code in Colab
from IPython.core.display import display, HTML
display(HTML(html_code))
```

```
# Prepare data for scatter plot
scatter_data = df(['visitNumber', 'pageviews']].dropna().values.tolist()
filt:
}
c/style>
c/style>
cacript arc="https://dljs.org/dl.v5.min.js">c/script>
cacript arc="https://dljs.org/dl.v5.min.js">c/script>
cacript>
cacript>
cacript>
cacript>
  // Data passed from Python
var data = ''' + str(scatter_data).replace(''', ''') + ''';
  // Set dimensions and margins
var margin = {top: 20, right: 30, bottom: 50, left: 50},
width = 600 - margin.left - margin.right,
height = 400 - margin.top - margin.bottom;
  // Append the xvg object to the body of the page
var xvg v dl.melect("body").append("mm")
.attr("width", width + margin.lp loading | n.right)
.attr("height", height + margin.top + margin.bottom)
.append("g")
.attr("transform", "translate(" + margin.left + "," + margin.top + ")");
  // X scale
var x = Gl.scalelinear()
.domain(0, dl.max(data, function(d) { return d(0); })])
.range((0, sidth));
 // Add X axis
xwg.append("g")
.strt("transform", "translate(0," + height + ")")
.call(d1.axishotton(x));
  // Y scale
var y = Gl.scalelinear()
.donsin([0, dl.max(data, function(d) { return d[1]; })])
.range([baight, 0]);
// Add Y axis
xvg.append("g")
.call(d3.axisLeft(y));
from IPython.core.display import display, HTML display(HTML(html_code_scatter))
```

```
from IPython.core.display import display, HTML

# Basic DD.js HTML setup
html_code = ""

**CIDCTYPE html>
cmts charact="ut+d">
cmts charact="ut+d">
cmts charact="ut+d">
cmts charact="ut+d">
catylas

node {
    font: l0px sana-serif;
    }

-arc path {
    stroke: #fff;
    }

**Clotylas
cbody>
carript src="https://d3js.org/d3.v3.min.js"></script>
carripts

// Sample D3.js visualization (this is where you'll customize the code)
var data = [10, 20, 30, 40, 50];

var avg = d3.select("body").append("svg")
.sttr("wispht", 500)
.stpend("g")
.sttr("transform", "translate(250,250)");

var arc = d3.arc()
.innerRadium(200)
.outerRadium(200);

var pis = d3.pis();

var arc = svg.selectAll("g.arc")
.data(pis(data))
.enter()
.append("g")
.sttr("class", "arc");

arcs.append("text")
.sttr("d", arc);

arcs.append("text")
.sttr("transform", function(d, i) { return d3.schemeCategory10(i); })
.sttr("transform", function(d) {
    return "translate(" + arc.centroid(d) + ")";
})
.sttr("transform", function(d) {
    return "translate(" + arc.centroid(d) + ")";
})
.sttr("transform", function(d) {
    return "translate(" + arc.centroid(d) + ")";
})
.sttr("transform", function(d) {
    return "translate(" + arc.centroid(d) + ")";
})
.sttr("transform", function(d) {
    return "translate(" + arc.centroid(d) + ")";
})
.sttr("transform", function(d) {
    return "translate(" + arc.centroid(d) + ")";
});
.sttr("transform", stanslate(" + arc.centroid(d)
```

