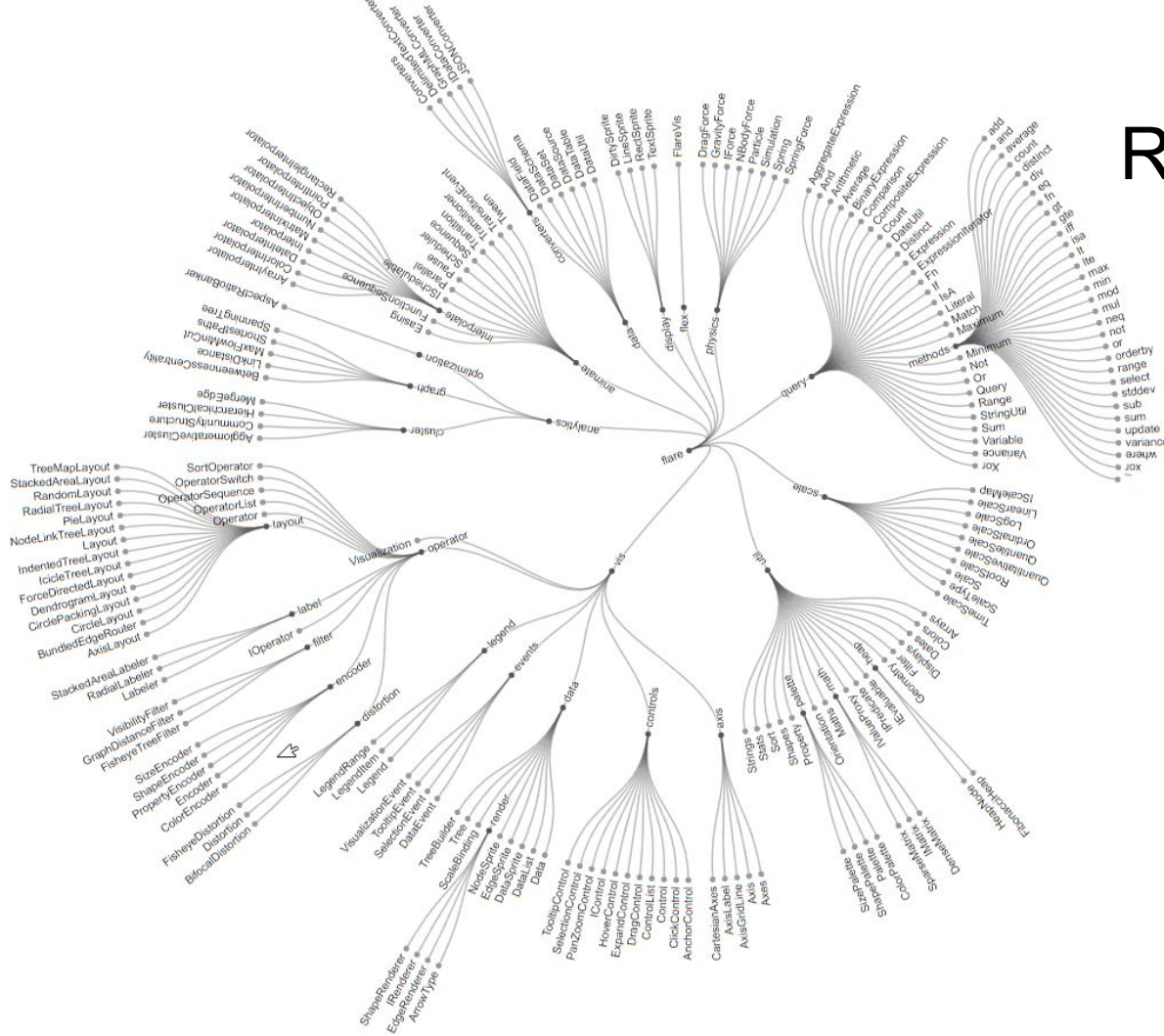# Radial Tidy Tree

+

d3.stratify()

Radial Tidy Tree

Displaying and organizing lots of data
radially and neatly

```javascript
var svg = d3.select("svg"),
    width = +svg.attr("width"),
    height = +svg.attr("height"),
    g = svg.append("g").attr("transform", "translate(" + (width / 2 + 40) + "," + (height / 2 + 90) + ")");

var stratify = d3.stratify()
    .parentId(function(d) { return d.id.substring(0, d.id.lastIndexOf(".")); });

var tree = d3.tree()
    .size([2 * Math.PI, 500])
    .separation(function(a, b) { return (a.parent == b.parent ? 1 : 2) / a.depth; });

d3.csv("flare.csv", function(error, data) {
  if (error) throw error;

  var root = tree(stratify(data));

  var link = g.selectAll(".link")
    .data(root.links())
    .enter().append("path")
      .attr("class", "link")
      .attr("d", d3.linkRadial()
        .angle(function(d) { return d.x; })
        .radius(function(d) { return d.y; }));

  var node = g.selectAll(".node")
    .data(root.descendants())
    .enter().append("g")
      .attr("class", function(d) { return "node" + (d.children ? " node--internal" : " node--leaf"); })
      .attr("transform", function(d) { return "translate(" + radialPoint(d.x, d.y) + ")"; });

  node.append("circle")
      .attr("r", 2.5);

  node.append("text")
      .attr("dy", "0.31em")
      .attr("x", function(d) { return d.x < Math.PI === !d.children ? 6 : -6; })
      .attr("text-anchor", function(d) { return d.x < Math.PI === !d.children ? "start" : "end"; })
      .attr("transform", function(d) { return "rotate(" + (d.x < Math.PI ? d.x - Math.PI / 2 : d.x + Math.PI
      .text(function(d) { return d.id.substring(d.id.lastIndexOf(".") + 1); });
});

function radialPoint(x, y) {
  return [(y = +y) * Math.cos(x -= Math.PI / 2), y * Math.sin(x)];
}
}
```

flare.csv

```
id,value
flare,
flare.analytics,
flare.analytics.cluster,
flare.analytics.cluster.AgglomerativeCluster,3938
flare.analytics.cluster.CommunityStructure,3812
flare.analytics.cluster.HierarchicalCluster,6714
flare.analytics.cluster.MergeEdge,743
flare.analytics.graph,
flare.analytics.graph.BetweennessCentrality,3534
flare.analytics.graph.LinkDistance,5731
flare.analytics.graph.MaxFlowMinCut,7840
flare.analytics.graph.ShortestPaths,5914
flare.analytics.graph.SpanningTree,3416
flare.analytics.optimization,
flare.analytics.optimization.AspectRatioBanker,7074
flare.animate,
flare.animate.Easing,17010
flare.animate.FunctionSequence,5842
flare.animate.interpolate,
flare.animate.interpolate.ArrayInterpolator,1983
flare.animate.interpolate.ColorInterpolator,2047
flare.animate.interpolate.DateInterpolator,1375
flare.animate.interpolate.Interpolator,8746
flare.animate.interpolate.MatrixInterpolator,2202
flare.animate.interpolate.NumberInterpolator,1382
flare.animate.interpolate.ObjectInterpolator,1629
flare.animate.interpolate.PointInterpolator,1675
flare.animate.interpolate.RectangleInterpolator,2042
flare.animate.ISchedulable,1041
flare.animate.Parallel,5176
flare.animate.Pause,449
flare.animate.Scheduler,5593
flare.animate.Sequence,5534
flare.animate.Transition,9201
flare.animate.Transitioner,19975
flare.animate.TransitionEvent,1116
flare.animate.Tween,6006
flare.data,
flare.data.converters,
flare.data.converters.Converters,721
```
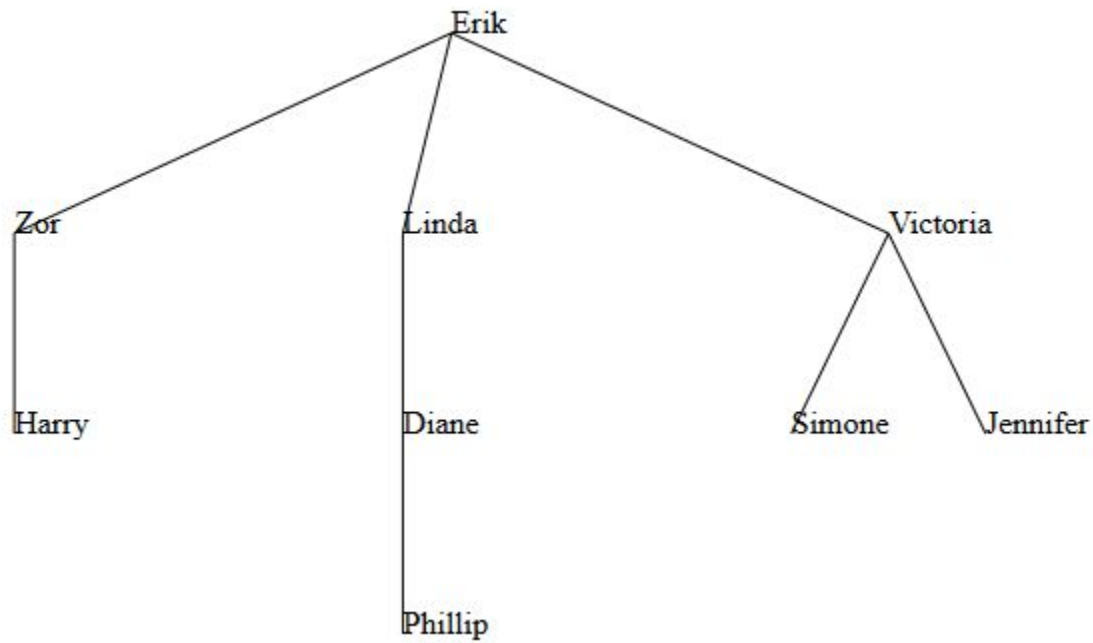
d3.stratify()

data.csv
```
name,parent
Erik,""
Zor,Erik
Linda,Erik
Victoria,Erik
Simone,Victoria
Jennifer,Victoria
Diane,Linda
Phillip,Diane
Harry,Zor
```

d3.stratify()

data.csv
name,parent
Erik,""
Zor,Erik
Linda,Erik
Victoria,Erik
Simone,Victoria
Jennifer,Victoria
Diane,Linda
Phillip,Diane
Harry,Zor

stratify()

0:{name: "Erik", parent: ""}
1:{name: "Zor", parent: "Erik"}
2:{name: "Linda", parent: "Erik"}
3:{name: "Victoria", parent: "Erik"}
4:{name: "Simone", parent: "Victoria"}
5:{name: "Jennifer", parent: "Victoria"}
6:{name: "Diane", parent: "Linda"}
7:{name: "Phillip", parent: "Diane"}
8:{name: "Harry", parent: "Zor"}

d3.tree()

Tutorial Example

Weblinks

https://bl.ocks.org/mbostock/4063550

https://github.com/d3/d3-hierarchy