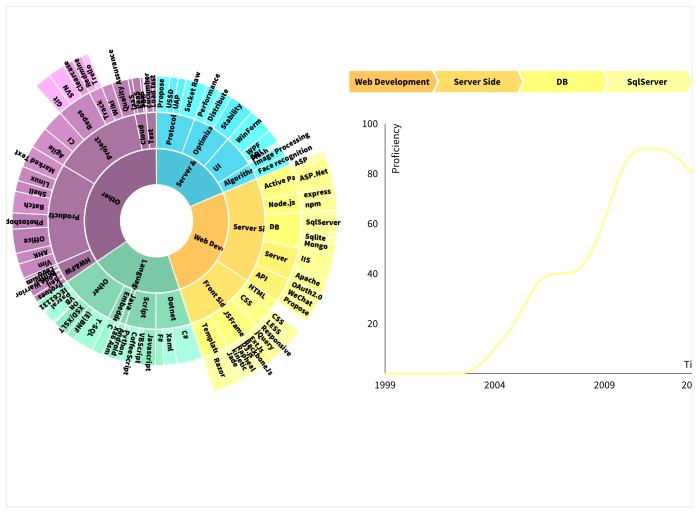
Sunburst for your skill map



Extract from my work, you can a demo in live Combined sunburst and line chart, currently you must generate the data by yourself, I also uploaded the skills.xlsx file to help generate this file(skillsdata.js).

Open in a new window.

Features:

- [TODO]works with data that is in a CSV format (you don't need to pre-generate a hierarchical JSON file, unless your data file is very large)
- interactive breadcrumb trail helps to emphasize the sequence, so that it is easy for a first-time user to understand what they are seeing

If you want to simply reuse this with your own data, here are some tips for generating the skillsdata.js file:

- · Fill in your data to skills.xlsx
- · Select whole W column and copy
- Convert to js by using http://js2coffee.org/
- Save and overwrite to skillsdata.js file

Indeed, I'm greatly inspired by someone else, but now I can't find who he is and where his site located, maybe I'll add his site link here later, if you do, please let me know, thanks!

index.html

```
<!DOCTYPE html>
<html>
  <head>
    <meta charset="utf-8">
    <title>Skills sunburst</title>
    <script src="http://d3js.org/d3.v3.min.js"></script>
    <link rel="stylesheet" type="text/css" href="skill.css"/>
  </head>
  <body>
    <div id="skills">
      <div id="skillmap">
        <div class="skills-wrapper">
          <div class="skills-sunburst"></div>
          <div class="skills-chart">
            <div id="skills-chart-breadcrumb"></div>
          </div>
        </div>
      </div>
    </div>
    <script type="text/javascript" src="http://cdnjs.cloudflare.com/ajax/libs/jquery/2.1.1/jquery.mi</pre>
    <script type="text/javascript" src="skillsdata.js"></script>
    <script type="text/javascript" src="skill.js"></script>
    <script type="text/javascript">
      // Hack to make this example display correctly in an iframe on bl.ocks.org
      d3.select(self.frameElement).style("height", "700px");
  </body>
</html>
```

skill.css

```
body {
  font-family: 'Open Sans', sans-serif;
  font-size: 12px;
  font-weight: 400;
  background-color: #fff;
  width: 1000px;
  height: 700px;
  margin-top: 10px;
#skillmap .skills-wrapper {
  margin-top: 10px;
  overflow: auto;
#skillmap .skills-sunburst {
  float: left;
  width: 500px;
  margin-left: -80px;
#skillmap .skills-sunburst svg {
  font: 11px 'Source Sans Pro', sans-serif;
  font-weight: 900;
  cursor: pointer;
#skillmap .skills-chart {
  float: right;
font-family: 'Source Sans Pro', sans-serif;
  font-size: 15px;
  margin: 80px 20px 0 0;
#skillmap .skills-chart .breadcumb-text {
  font-size: 13px;
  font-weight: 700;
#skillmap .skills-chart #skills-chart-line {
  fill: none;
  stroke-width: 3.5px;
#skillmap .skills-chart .axis path,
```

```
#skillmap .skills-chart .axis line {
    fill: none;
}
#skillmap .skills-chart .x-axis path,
#skillmap .skills-chart .y-axis path {
    stroke: #444;
    stroke-width: 1px;
    shape-rendering: geometricPrecision;
}
```

skill.js

```
function initchart() {
    var data = {
        children: null,
        value: 0,
        key: "",
        depth: 1
    };
    chart.refreshChart(data)
function mouseover(data) {
    chart.refreshChart(data);
    var c = getcrumbpath(data);
    i(c);
    d3
        .selectAll(".skills-sunburst path")
        .style("opacity", .3), sunburst
.selectAll("path")
        .filter(function (a) { return c.index0f(a) >= 0 })
        .style("opacity", 1)
function mouseleave() {
    d3
        .selectAll("path")
        .on("mouseover", null);
    d3
        .selectAll("path")
        .transition()
        .duration(1e3)
        .style("opacity", 1)
        .each("end", function () { d3.select(this).on("mouseover", mouseover") })
function getcrumbpath(a) {
    for (var temp = [], c = a; c.parent;) temp.unshift(c), c = c.parent;
    return temp
function initbreadcrumb() {
    d3
        .select("#skills-chart-breadcrumb")
        append("svg:svg")
        .attr("width", 500)
        .attr("height", 50)
.attr("class", "trail")
function h(a, d3) {
    var c = [];
    c.push("0,0");
    c.push(r.w + ",0");
    c.push(r.w + r.t + "," + r.h / 2);
c.push(r.w + "," + r.h);
    c.push("0," + r.h);
    d3 > 0 \& c.push(r.t + "," + r.h / 2);
    return c join(" ");
}
function i(a) {
    a[a.length - 1]._color, a.length;
    var c = d3
```

```
.select("#skills-chart-breadcrumb .trail")
         .selectAll("g")
         .remove();
    c = d3
         .select("#skills-chart-breadcrumb .trail")
         .selectAll("g")
         .data(a, function (a) { return a.key + a.depth });
    var d = c.enter().append("svg:g");
         .append("svg:polygon")
        attr("points", h)
         .style("fill", function (a) { return a._color }),
    d
        .append("svg:text")
        .attr("x", r.w / 2 + 2)
.attr("y", r.h / 2)
.attr("dy", "0.35em")
        attr("text-anchor", "middle")
        .attr("class", "breadcumb-text")
.style("fill", function (a) { return getcolor(d3.rgb(a._color)) < 150 ? "#fff" : "#000" })</pre>
        .text(function (a) { return a.key }),
         .attr("transform", function (a, b) { return "translate(" + b * (r.w + r.s) + ", 0)" }),
    c.exit().remove().
    d3.select(".trail").style("visibility", "")
function getcolor(color) {
    return .299 * color.r + .587 * color.g + .114 * color.b
function k(a) {
    var c = ["#4CC3D9", "#FFC65D", "#7BC8A4", "#93648D", "#404040"].
        d = [-.1, -.05, 0];
    if (1 == a.depth) {
        var e = c[coloralternative % 5];
        return coloralternative++, e
    }
    if (a.depth > 1) {
        var f = d[a.value % 3]:
        return d3.rgb(a.parent. color).brighter(.2 * a.depth + f * a.depth)
    }
}
var l;
var chart = function (d3) {
    function processdata(data) {
        var b = [],
             c = 0;
         return data._proficiency.forEach(function (a) {
             c <= i.length && (b.push({</pre>
                 date: i[c]
             }), c++)
        }), b
    function c(b, c) {
        j.domain(d3.extent(b, function (a) { return a.date }));
             .domain([0, 100]), cpath
             .append("g")
             .attr("class", "x-axis axis")
             .attr("transform", "translate(0," + h + ")")
             .call(bottomtick)
             .append("text")
             .attr("x", 450)
.attr("y", -8)
             .style("text-anchor", "end")
             .text("Time"), cpath
             append("g")
             .attr("class", "y-axis axis")
             .call(lefttick)
             .append("text")
             .attr("transform", "rotate(-90)")
             .attr("y", 6)
```

```
.attr("dy", ".91em")
                    .style("text-anchor", "end")
.text("Proficiency"), cpath
                    .append("path")
                    .datum(b)
                    .attr("class", "line")
                    .attr("id", "skills-chart-line")
                    .attr("d", n)
                    .attr("stroke", function () { return c._color })
function refreshChart(data) {
          var e = processdata(data),
                    f = d3.select("#skills-chart-line");
          null === f[0][0]
          ? c(e, data)
          : f
                    .datum(e)
                    .attr("d", n)
                    .attr("stroke", function () { return data._color })
var chart = {},
          rect = {
                    top: 20,
                    right: 20,
                    bottom: 30,
                    left: 50
          },
         g = 500 - rect.left - rect.right,
         h = 400 - rect.top - rect.bottom,
         i = [1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010, 2010,
          j = d3.scale.linear().range([0, g]),
          k = d3.scale.linear().range([h, 0]),
          bottomtick = d3
                    .svg
                    .axis()
                    .scale(j)
                    .tickValues([1999, 2004, 2009, 2013])
                    .tickFormat(d3.format(".0f"))
                    .tickPadding(10)
                    .tickSize(0)
                    .orient("bottom"),
          lefttick = d3
                    .svg
                    .axis()
                    .scale(k)
                    .tickSize(0)
                    .tickPadding(10)
                    .tickValues([20, 40, 60, 80, 100])
                    .orient("left");
          n = d3.svg.line().interpolate("basis").x(function (a) {
                    return j(a.date)
          }).y(function (a) {
                    return k(a.p)
          }),
          cpath = d3
                    .select(".skills-chart")
                    .append("svg")
                    .attr("width", g + rect.left + rect.right)
.attr("height", h + rect.top + rect.bottom)
                    append("g")
                    .attr("transform", "translate(" + rect.left + "," + rect.top + ")");
          chart.refreshChart = refreshChart;
          return chart;
}(d3),
width = 580,
height = 580,
rad = Math.min(width, height) / Math.PI - 25,
q = k,
r = {
         w: 116,
         h: 30,
          s: 3,
```

```
t: 7
    },
    sunburst = d3
        .select(".skills-sunburst")
        append("svg:svg")
        .attr("width", width)
.attr("height", height)
        .append("svg:g")
        .attr("transform", "translate(" + width / 2 + "," + height / 2 + ")");
sunburst.append("svg:circle").attr("r", rad).style("opacity", 0);
var t = function (a, b) {
        var c = []
            d = a.length;
        if (a.length !== b.length) c = a.length > b.length ? a : b;
        else for (var e = 0; d > e; e++) {
            var f = Math.max(a[e], b[e]) - Math.abs(a[e] - b[e]) / 8;
            c.push(f)
        }
        return c
    },
    u = function (a) {
        if (a instanceof Array) return a;
        var b = [];
        return $.each(a, function (a, c) {
            b = t(u(c), b)
        }), b
    proficiencydata = d3
        .layout
        .partition()
        .sort(null)
        .size([2 * Math.PI, rad])
        .children(function (a) {
            return a.value instanceof Array
                ? (a._proficiency = a.value, d3.entries([a.value[a.value.length - 1]]))
                : (a._proficiency = u(a.value), isNaN(a.value) ? d3.entries(a.value) : null)
        })
        .value(function (a) { return a.value }),
    arc = d3.sva
        .arc()
        .startAngle(function (a) { return a.x })
        .endAngle(function (a) { return a.x + a.dx - .01 / (a.depth + .5) })
        .innerRadius(function (a) { return rad / Math.PI * a.depth })
        .outerRadius(function (a) { return rad / Math.PI * (a.depth + 1) - 1 });
var coloralternative = 0
initbreadcrumb();
var path = sunburst
    .data(d3.entries(skillsdata))
    .selectAll("g")
    .data(proficiencydata)
    .enter()
    .append("svg:g")
    .attr("display", function (a) { return a.depth ? null : "none" });
path
    .append("svg:path")
    .attr("d", arc)
    .attr("stroke", "#fff")
    .attr("fill", function (a) { return a._color = q(a), a._color })
    .attr("fill-rule", "evenodd").attr("display", function (a) { return a.children ? null : "none" }
    .on("mouseover", mouseover);
path.
    append("svg:text")
    .attr("transform", function (a) {
        var r = 180 * ((a.x + a.dx / 2 - Math.PI / 2) / Math.PI);
        return "rotate(" + r + ")"
    .attr("x", function (a) { return rad / Math.PI * a.depth})
    .attr("dx", "6").attr("dy", ".1em").text(function (a) { return a.key })
    .attr("display", function (a) { return a.children ? null : "none" })
    .on("mouseover", mouseover);
d3
```

```
.select(".skills-sunburst")
.on("mouseleave", mouseleave);
l = path.node().__data__.value;
sunburst
.append("circle")
.attr("r", rad / Math.PI)
.attr("opacity", 0);
initchart();
```

skillsdata.js

```
var skillsdata;
skillsdata = {
  "Skills": {
    "Server & WinForm": {
      "Protocol": {
        "Propose": [0, 0, 0, 0, 0, 0, 0, 0, 0, 10, 30, 50, 50, 50],
        "USSD": [0, 0, 0, 0, 0, 0, 0, 0, 0, 60, 60, 50, 40, 30],
        "UAP": [0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 60, 70, 50, 30],
       "Socket Raw": [0, 0, 0, 0, 0, 0, 0, 0, 10, 50, 50, 50, 70, 80]
     "Performance": [0, 0, 0, 0, 0, 0, 0, 0, 10, 40, 40, 50, 50, 50],
        "Distribute": [0, 0, 0, 0, 0, 0, 0, 0, 10, 10, 10, 40, 50, 50],
        "Stability": [0, 0, 0, 0, 0, 0, 0, 0, 10, 50, 60, 70, 80, 90]
     },
        "WinForm": [0, 0, 20, 40, 50, 50, 50, 50, 60, 80, 90, 95, 95, 95],
       "WPF": [0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 30, 50],
       "GDI": [0, 0, 0, 0, 0, 40, 50, 40, 40, 30, 30, 20, 20, 10, 5],
        "DX": [0, 0, 0, 0, 0, 10, 50, 50, 40, 40, 30, 20, 10, 10, 5],
        "Flash": [0, 0, 10, 30, 40, 50, 50, 40, 30, 20, 10, 5, 5, 5, 5]
     },
     "Algorithm": {
       "Image Processing": [0, 0, 0, 0, 0, 0, 10, 30, 50, 50, 50, 45, 45, 40], "Face recognition": [0, 0, 0, 0, 0, 0, 10, 40, 70, 60, 50, 40, 40, 40]
    "Web Development": {
      "Server Side": {
       "Active Page": {
         "ASP": [0, 0, 10, 30, 60, 60, 40, 20, 20, 20, 20, 20, 20, 20],
          "ASP.Net": [0, 0, 0, 0, 0, 10, 30, 70, 80, 90, 90, 90, 90, 90]
        "Node is": {
         "express": [0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 10, 30],
          "npm": [0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 10, 40]
       },
        "DB": {
         "SqlServer": [0, 0, 0, 0, 0, 10, 20, 40, 40, 40, 60, 90, 90, 90, 80], "Sqlite": [0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 10, 30, 20],
         "Mongo": [0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 30]
         "IIS": [0, 10, 10, 30, 40, 40, 40, 60, 70, 70, 80, 80, 80, 80, 80],
         "Apache": [0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 10, 20, 40]
        "API": {
         "OAuth2.0": [0, 0, 0, 0, 0, 0, 0, 0, 20, 40, 40, 40, 30, 30],
         "Propose": [0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 30, 40, 30]
        }
     "HTML": [0, 0, 10, 30, 50, 50, 60, 80, 90, 60, 50, 30, 30, 30, 40],
          "CSS": [0, 0, 10, 30, 50, 50, 60, 80, 85, 60, 50, 30, 20, 20, 30],
         "LESS": [0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 30],
```

```
"Responsive": [0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 20]
    "JSFramework": {
      "jQuery": [0, 0, 0, 0, 0, 0, 0, 0, 0, 20, 30, 30, 25, 30],
"ExtJs": [0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 30, 30],
      "BackboneJs": [0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 10],
      "kinetic": [0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 20]
    "Template": {
      "Jade": [0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 20],
      "Razor": [0, 0, 0, 0, 0, 0, 0, 0, 40, 50, 60, 80, 80, 80]
    }
  }
},
"Language": {
  "Dotnet": {
    "C#": [0, 0, 0, 0, 0, 0, 20, 50, 70, 80, 90, 95, 95, 95],
    "Xaml": [0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 30, 50],
    "Script": {
    "Javascript": [0, 0, 10, 30, 50, 50, 60, 60, 60, 80, 80, 60, 50, 50, 60],
    "VBScript": [0, 0, 0, 0, 20, 20, 30, 30, 40, 30, 20, 20, 20, 20, 20],
    "CoffeeScript": [0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 30, 50],
    "Python": [0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 20]
  "Java": {
    "Android": [0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 30]
  "Embedded": {
    "X86 Asm": [0, 0, 0, 0, 0, 0, 0, 10, 40, 40, 30, 25, 20, 20], "C": [0, 0, 0, 0, 0, 0, 20, 25, 30, 50, 50, 45, 40, 40]
  "Other": {
    "T-SQL": [0, 0, 0, 0, 0, 10, 20, 40, 40, 40, 60, 90, 90, 90, 80],
    "(E)BNF": [0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 10, 30],
    "XSD/XSLT": [0, 0, 0, 0, 0, 0, 20, 40, 40, 40, 40, 50, 50, 60],
    "QB": [40, 50, 40, 30, 20, 10, 5, 5, 5, 5, 5, 5, 5, 5],
    "VB": [0, 10, 20, 50, 60, 80, 90, 80, 70, 60, 60, 60, 60, 50, 50],
    "Pascal": [0, 0, 0, 30, 50, 60, 40, 20, 10, 5, 5, 5, 5, 5],
    "IEC61131": [0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 10, 40]
  }
"Other": {
  "HW&FW": {
    "Protues": [0, 0, 0, 0, 0, 0, 0, 0, 10, 30, 25, 20, 20, 25],
    "Keil": [0, 0, 0, 0, 0, 0, 0, 0, 10, 30, 25, 20, 20, 25],
    "Code Warrior": [0, 0, 0, 0, 0, 0, 0, 0, 10, 15, 15, 10, 10, 20],
    "Protel": [0, 0, 0, 0, 0, 0, 0, 0, 10, 20, 15, 10, 10, 5],
    "Multisim": [0, 0, 0, 0, 0, 0, 0, 0, 10, 30, 30, 25, 20, 15], "Lego": [0, 0, 0, 0, 10, 40, 50, 45, 40, 35, 30, 25, 20, 15, 10]
  "Productivity": {
    "Vim": [0, 0, 0, 0, 0, 0, 0, 0, 10, 20, 30, 40, 45, 50, 55], "AHK": [0, 0, 0, 0, 0, 0, 0, 10, 20, 30, 30, 30, 35, 40],
    "Office": [0, 10, 20, 50, 60, 60, 70, 70, 80, 90, 90, 90, 90, 90, 90],
    "Photoshop": [0, 10, 20, 30, 35, 40, 45, 50, 60, 65, 60, 60, 55, 60, 60],
    "Batch": [40, 45, 50, 50, 50, 60, 65, 70, 75, 75, 80, 80, 80, 80, 80], "Shell": [0, 0, 0, 0, 0, 0, 0, 0, 10, 10, 10, 30, 35, 40], "Linux": [0, 0, 0, 0, 0, 0, 0, 0, 10, 10, 10, 40, 50, 55],
    "Marked Text": [10, 20, 20, 30, 40, 40, 40, 40, 40, 50, 60, 70, 80, 80, 80]
    "Agile": [0, 0, 0, 0, 0, 0, 0, 10, 30, 40, 50, 60, 70, 80],
    "CI": [0, 0, 0, 0, 0, 0, 0, 10, 30, 50, 70, 70, 80, 80],
    "Repos": {
      "Git": [0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 30, 50],
      "SVN": [0, 0, 0, 0, 0, 0, 0, 0, 0, 10, 30, 50, 50, 50],
      "Clearcase": [0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 10, 30]
    }.
```

wizicer's block #f662a0b04425fc0f7489 September 21, 2014