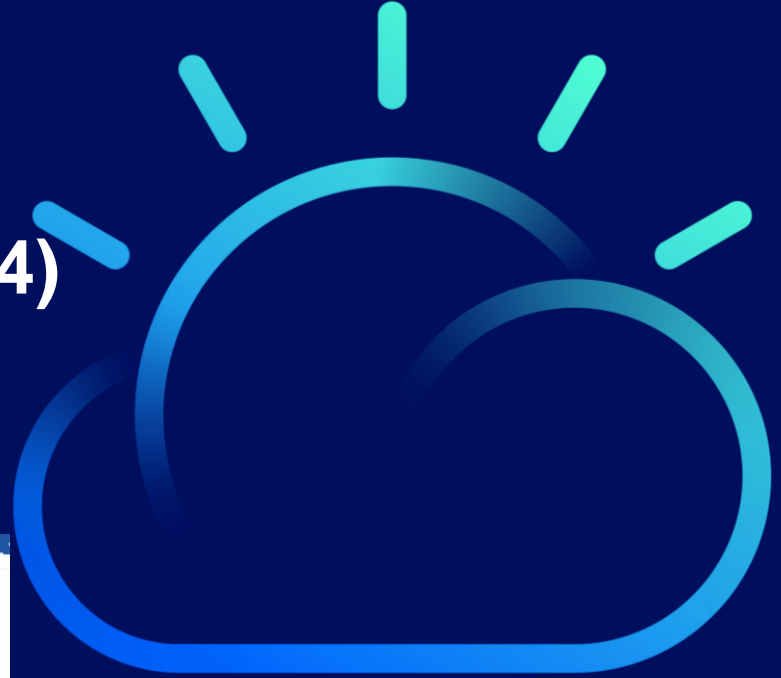
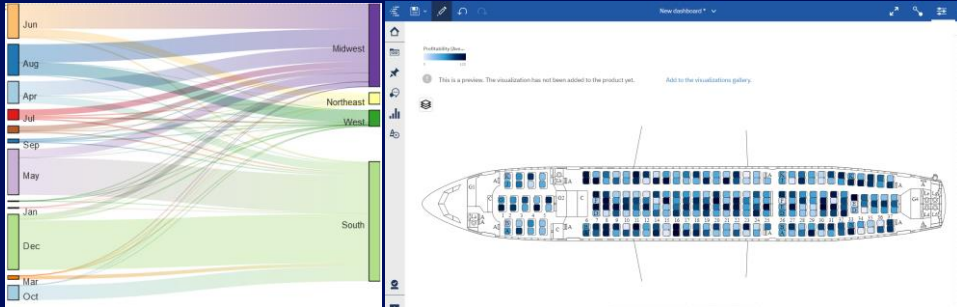


# IBM Cognos Analytics 11.1



## - Custom Visualizations (R4)

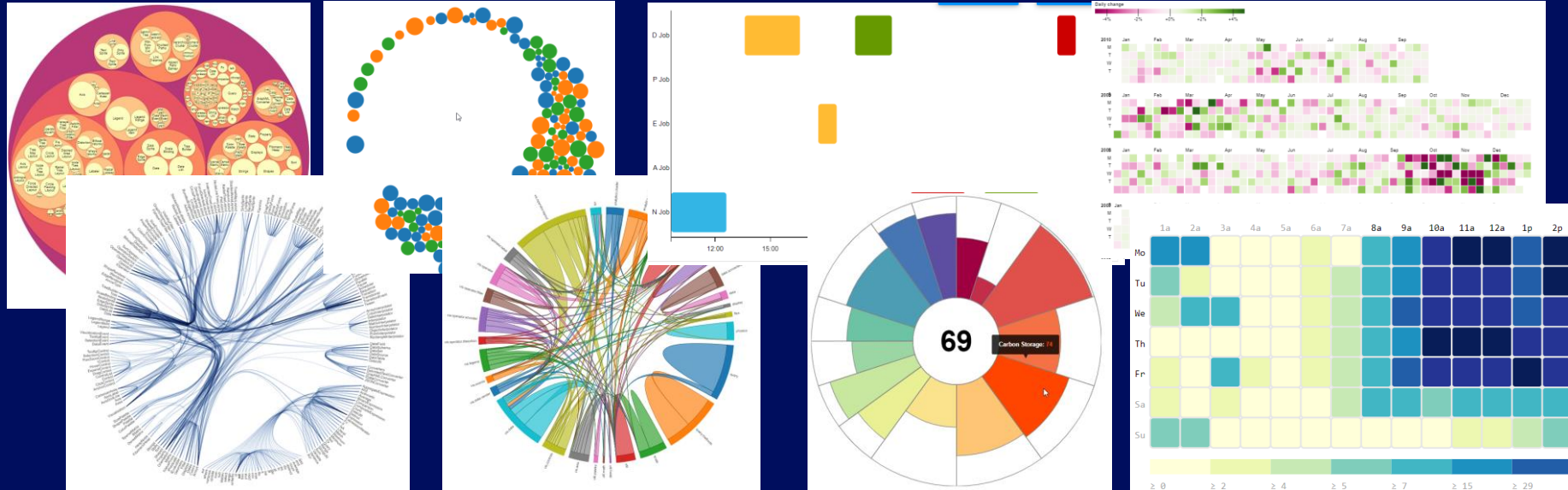


# IBM Cognos Analytics 11.1

## Custom Visualization's (R4)

### What is it?

Custom Visualization's is the capability to bring in JavaScript based visualization's into Cognos Analytics.



# IBM Cognos Analytics 11.1

## *Custom Visualization's (R4)*

### **When would I use it?**

Any need for a visualization that is not part of the standard Cognos Analytics installation. Any JavaScript based visualization is supported – this include D3, Chartist, FusionCharts, Google Charts, High Charts, NVD3, C3, Cubism, Plottable, Canvas, Dygraphs and many more. JavaScript coding skills are required!

### **How do I use it?**

- 1) Find your open source or paid visualization in one of the libraries
- 2) Connect it to the Cognos Analytics API via the Customvis CLI – this requires coding skills!
- 3) Test your new visualization in CA Dashboards or Reporting directly against the local server.
- 4) Upload the final visualization bundle to Cognos Analytics and add permissions on it.

# IBM Cognos Analytics 11.1

## Custom Visualization's (R4)

**1**

```
index.html<!DOCTYPE html><meta charset="utf-8"><body><script src="//d3js.org/d3.v3.min.js"></script></script>var width = 960, height = 500;var nodes = d3.range(200).map(function(d, i) {return {x: d, y: d, size: 100, color: d3.scale.category10()(d)};});root = nodes[0];root.radius = 0;root.fixed = true;var force = d3.layout.force().gravity(0.05).change(function(d, i) {return {x: d.x + (Math.random() - 0.5) * 10, y: d.y + (Math.random() - 0.5) * 10, size: d.size, color: d.color};});force.start();var svg = d3.select("body").append("div").attr("width", width).attr("height", height);svg.selectAll("circle")
```

**2**

```
Administrator: cmd.exe - customvis startC:\Customvis\Samples>cd *sankeyC:\Customvis\Samples\customvis>key>customvis start[Info] [2:30:26 PM] Generating manifest.xml[Info] [2:30:26 PM] Generating vizdef.xml[Info] [2:30:26 PM] Started building the sources...[Info] [2:30:29 PM] Finished building the sources in 3274 ms[Info] [2:30:29 PM] Starting a local server on port 8585[Info] [2:30:29 PM] Started a local server on port 8585import { RenderBase, UpdateInfo } from "@businessanalytics/customvis-lib";
```

**3**

Education	MaritalStatus	MonthlyIncome
Bachelors	Single	10000
Below College	Single	10000
Some College	Single	10000
Masters	Married	10000
Doctorate	Married	10000
Doctorate	Divorced	10000

for points and rectangles  
for now, to avoid blowing up.  
top/bottom for label (px assumed).

# IBM Cognos Analytics 11.1

## *Custom Visualization's (R4)*

### Remarks:

- D3 is not a standard format => JavaScript code can be very complex...
- JavaScript found on the internet is still code => Verify it before using it...
- Endless options for custom visualization's IF you can code JavaScript
  
- Developer use case:
  - Developer with JavaScript and/or D3 coding skills
  - Responsible for building a reusable Viz bundle
  - Will use their own preferred code editor
  - Will preview changes constantly during the development and upload it afterwards
  
- Self-service use case:
  - Cognos Analytics Dashboard/Reporting user with upload permissions, will upload bundle from developer/Business Partner/Marketplace
  - Users with permission can find custom viz's in a tab next to the OOTB visualizations

