# Announcing the D3.js Graph Gallery

## Summary

The [d3 graph gallery](https://www.d3-graph-gallery.com/) is a collection of 200 simple charts made with d3.js, with reproducible, commented and editable code.

## Suggested Tags

D3, D3.js, Dataviz, Data visualization, Charts, Web, Javascript, Html, CSS

## Blog text

## What is d3.js

[D3.js](https://d3js.org/) is a JavaScript library for manipulating documents based on data. Basically, it helps you build charts for the web based on HTML, SVG, and CSS. D3.js has been created by [Mike Bostock](https://bost.ocks.org/mike/) and its home is [here](https://d3js.org/).  
  
D3.js is the standard tool for data visualization on the web. It allows to build absolutely [any type](https://www.d3-graph-gallery.com/) of visualization, without any limits. Since it is run in the browser, it allows any type of interactivity: zooming, hovering, smooth transition and more.

*[Insert demoD3.gif. Legend: A stacked area chart with zooming option. Code* [*here*](https://www.d3-graph-gallery.com/stackedarea.html)*]*

## D3 is hard, we need simple examples

Learning d3.js is hard, there is [no doubt](https://medium.com/dailyjs/the-trouble-with-d3-4a84f7de011f) about that. The learning curve is steep, and one of the most common way to learn it is to study examples.

D3.js already has awesome dedicated resources to get code examples: a [wiki](https://github.com/d3/d3/wiki/Gallery), a [gallery](http://christopheviau.com/d3list/gallery.html) and the very awesome [block builder](http://blockbuilder.org/search). Moreover, thousands of [blocks](https://bl.ocks.org/) are available online.   
  
The [d3 graph gallery](https://www.d3-graph-gallery.com/) aims to contribute to this documentation by providing a set of simple examples. While blocks are awesome to demonstrate the possibilities offered by d3, it is sometimes hard to find a basic example illustrating a single concept: the gallery hopes to fill the gap.

*[Insert demoD3.png. Legend: Hierarchical edge bundling built with d3: beautiful but tedious.* [*Source*](https://bl.ocks.org/mbostock/1044242)*]*

## How the gallery works

About 300 charts are displayed in the gallery. They are classified in 40 sections: the main chart types described in [data to viz](https://www.data-to-viz.com/).   
  
For each chart type, a step-by-step approach is taken. Examples start with the most basic version one could ever think of, and subsequent examples get more and more complicated, always describing only one new specific concept. A section about interactivity is always provided, and links to interesting blocks are suggested at the end of the page.   
  
For each example, the chart appears on the left at a static position, with its editable code located on the right. Editing the code will modify the chart in real time, allowing to quickly understand what role a piece of code has.

*[Insert Gallery\_Demo.gif. Legend: Basic* [*density plot*](https://www.d3-graph-gallery.com/graph/density_basic.html) *with editable code in the d3.js graph gallery.]*

Technical details are provided under each chart. Main tricks are explained, with links to the related documentation. No consideration is given concerning dataviz best practices, links toward [data to viz](https://www.data-to-viz.com/) are provided for this concern.   
  
Code is extensively commented. Data and dependencies are stored online. It allows to copy and paste the code in a HTML file and make it works locally in seconds. Code snippets are thus ready to be applied to your data.

## Conclusion

The [d3 graph gallery](https://www.d3-grph-gallery.com/) is a project developed by [Yan Holtz](https://www.yan-holtz.com/) in his free time. It aims to make d3 more accessible to learners. The website is fully open source and lives on [Github](https://github.com/holtzy/D3-graph-gallery). Any feedback, comments, issues or even pull requests are highly welcome at [yan.holtz.data@gmail.com](mailto:yan.holtz.data@gmail.com) or via twitter: [@R\_Graph\_Gallery](https://twitter.com/R_Graph_Gallery).

## Author Bio

[Yan Holtz](https://www.yan-holtz.com/) is a passionate data analyst specialized in data visualization. He built Dataviz related website like the [R](http://www.r-graph-gallery.com/), the [Python](https://www.python-graph-gallery.com/) and the [D3.js](https://www.d3-graph-gallery.com/) graph galleries as well as [data-to-viz](https://www.data-to-viz.com/). He can be reached at: yan.holtz.data@gmail.com.

Homepage: [yan-holtz.com](https://www.yan-holtz.com/)

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