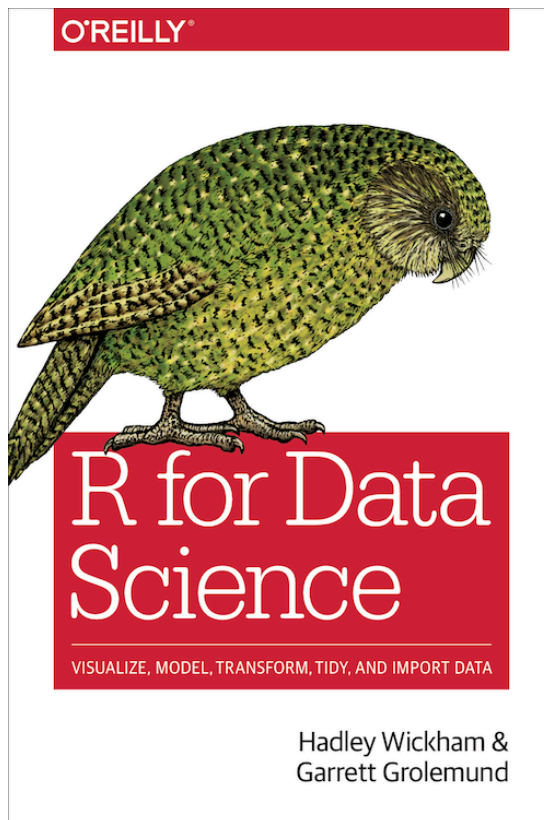


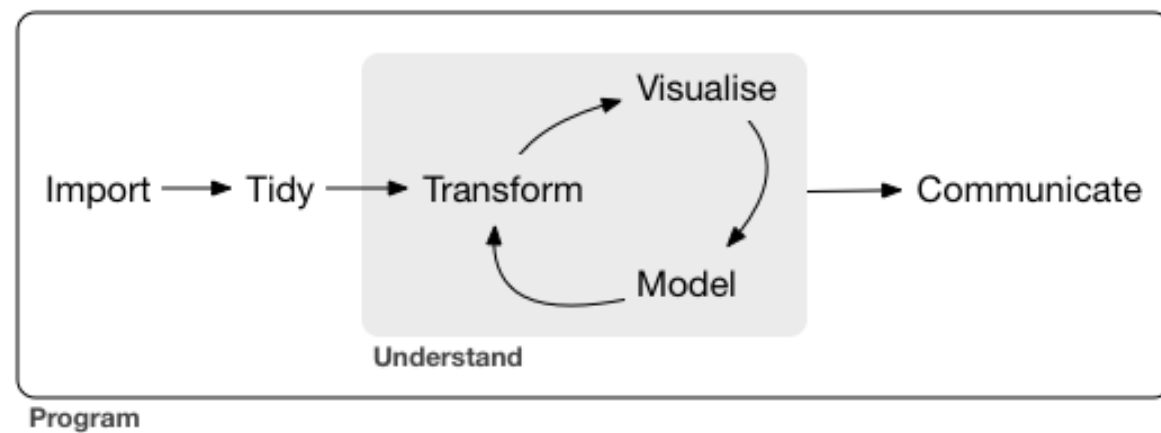
# TEN TIPS FOR A BETTER DATA ANALYSIS PIPELINE IN RESEARCH

---

















[r4ds.had.co.nz](http://r4ds.had.co.nz)

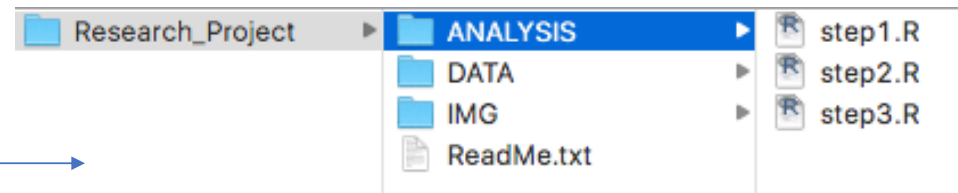


# ORGANIZE

-  input\_raw\_clean.txt
-  input\_raw\_clean1.txt
-  input\_raw.txt
-  input\_raw2.txt
-  result\_1.png
-  result\_2.png
-  result\_3.png
-  result\_4\_clean\_ok\_final\_good.png
-  script\_1.R
-  script\_ok.R
-  script\_test.R
-  script\_toto.R

# ORGANIZE

input\_raw\_clean.txt  
input\_raw\_clean1.txt  
input\_raw.txt  
input\_raw2.txt  
result\_1.png  
result\_2.png  
result\_3.png  
result\_4\_clean\_ok\_final\_good.png  
script\_1.R  
script\_ok.R  
script\_test.R  
script\_toto.R

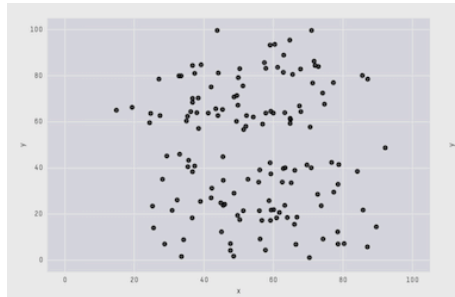


- Don't modify input files manually
- Don't copy and paste code / results
- Use code to do everything

CODE



VISUALIZE

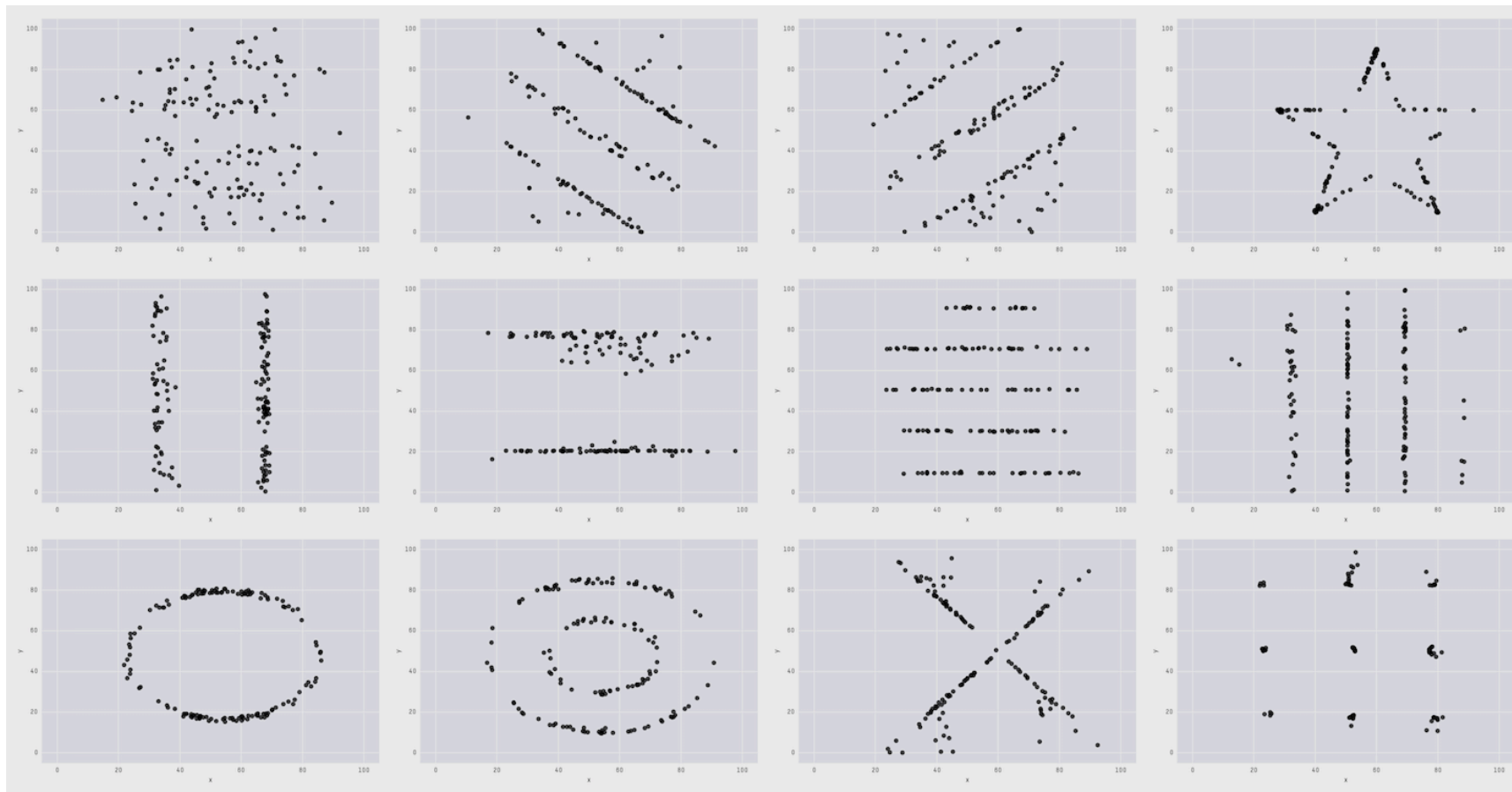


X Mean: 54.26  
Y Mean: 47.83  
X Sd: 15.76  
Y Sd: 26.93  
  
Correlation: -0.06

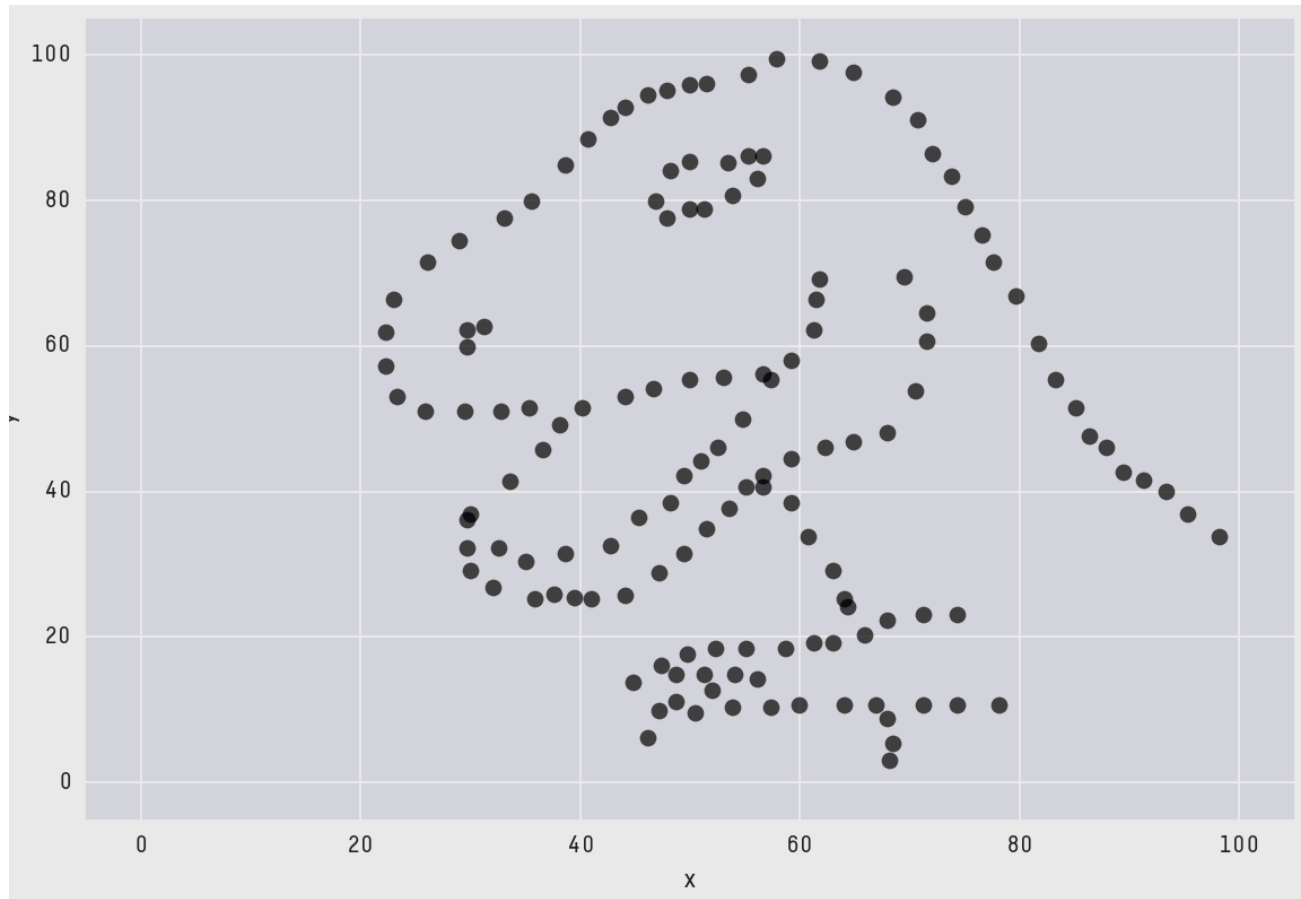
VISUALIZE

X Mean: 54.26  
Y Mean: 47.83  
X Sd: 15.76  
Y Sd: 26.93

Correlation: -0.06



VISUALIZE



The Datasaurus Dozen



**AVOID  
CAVEATS**

[data-to-viz.com](https://data-to-viz.com)

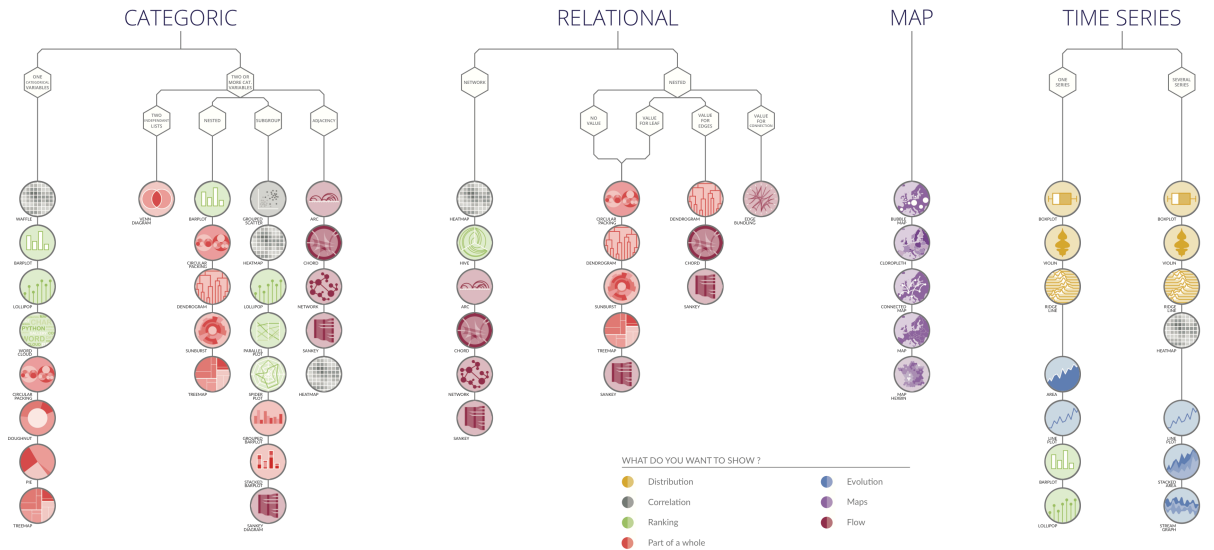


**'From Data to Viz'** is a classification of chart types based on input data format. It will help you find the perfect chart in three simple steps :

- 1 Identify what type of data you have.
- 2 Go to the corresponding decision tree and follow it down to a set of possible charts.
- 3 Choose the chart from the set that will suit your data and your needs best.

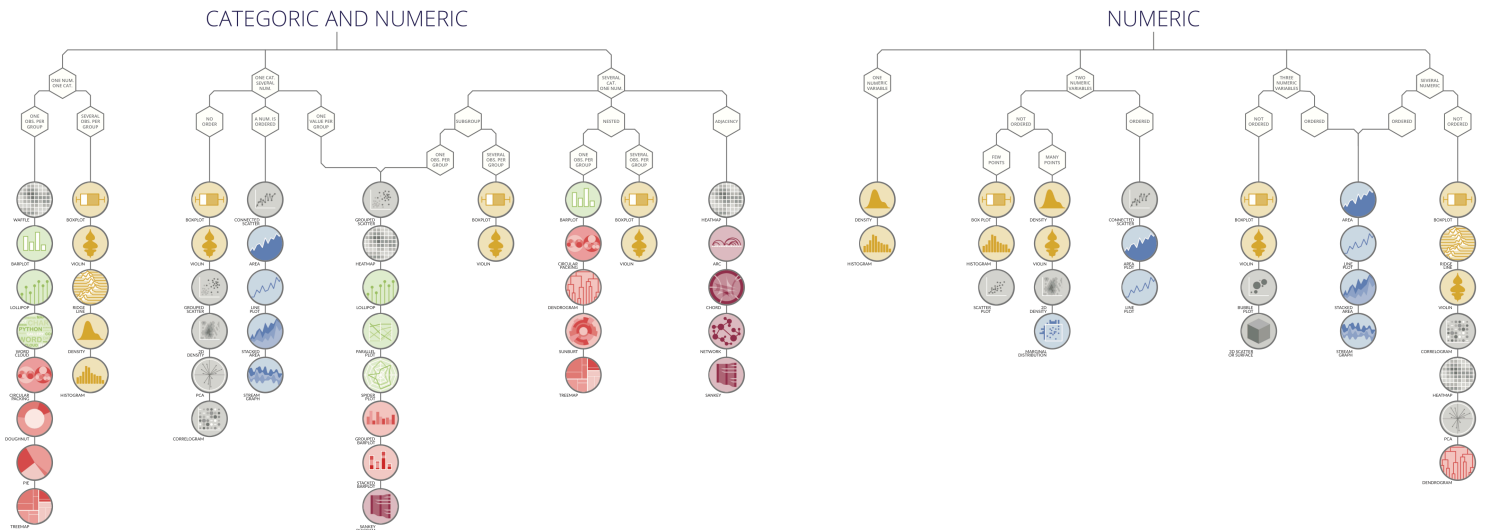
Dataviz is a world with endless possibilities and this project does not claim to be exhaustive. However it should provide you with a good starting point. For an interactive version and much more, visit:

data-to-viz.com



[R-graph-gallery.com](http://R-graph-gallery.com)

[Python-graph-gallery.com](https://python-graph-gallery.com)



# REPORT

## R Markdown

from  Studio

```
53
54 # An interactive manhattan plot
55 ***
56
57 Using `HTML` outputs you can embed some interactive graphics. For example, the
58 plotly library can transform any of your ggplot2 graphic in an interactive
59 chart:
60
61 ```{r, message=FALSE, warning=FALSE, echo=FALSE}
62 # Libraries
63 library(plotly)
64 library(tidyverse)
65
66 # Prepare the dataset
67 don <- gwasResults %>%
68 ```
```

Title

Text

Code

Is your code reusable ?

# REPORT

## R Markdown

from R Studio



### 3 An interactive manhattan plot

Using `HTML` outputs you can embed some interactive graphics. For example, the `plotly` library can transform any of your `ggplot2` graphic in an interactive chart:

```
# Make the plot
p <- ggplot(don, aes(x=BPcum, y=-log10(P), text=text)) +

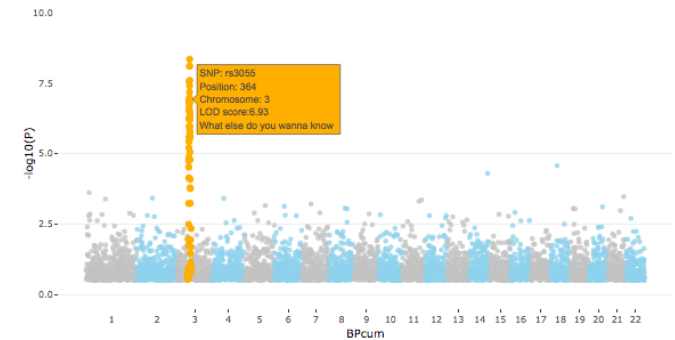
# Show all points
geom_point(aes(color=as.factor(CHR)), alpha=0.8, size=1.3) +
scale_color_manual(values = rep(c("grey", "skyblue"), 22)) +

# custom X axis:
scale_x_continuous( label = axisdf$CHR, breaks= axisdf$center ) +
scale_y_continuous(expand = c(0, 0) ) + # remove space between plot area and x axis

# Add highlighted points
geom_point(data=subset(don, is_highlight=="yes"), color="orange", size=2) +

# Custom the theme:
theme_bw() +
theme(
  legend.position="none",
  panel.border = element_blank(),
  panel.grid.major.x = element_blank(),
  panel.grid.minor.x = element_blank()
) +
ylim(0, 10)

ggplotly(p, tooltip="text")
```



```
53
54 # An interactive manhattan plot
55 ***
56
57 Using `HTML` outputs you can embed some interactive graphics. For example, the
58 plotly library can transform any of your ggplot2 graphic in an interactive
59 chart:
60
61 ```{r, message=FALSE, warning=FALSE, echo=FALSE}
62 # Libraries
63 library(plotly)
64 library(tidyverse)
65
66 # Prepare the dataset
67 don <- gwasResults %>%
68   ```
```

Title

Text

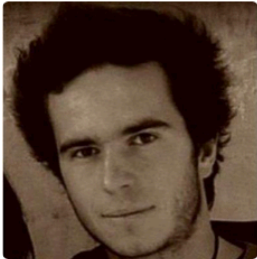
Code

Is your code reusable ?

Interactive report

# VERSION CONTROL





## Holtz Yan

holtzy

Data Analyst with a + in data visualization

[Edit bio](#)

[Queensland Brain Institute](#)  
[Brisbane, Australia](#)  
[yan.holtz.data@gmail.com](mailto:yan.holtz.data@gmail.com)  
<https://holtzyan.wordpress.co...>

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A website displaying hundreds of charts made with Python

Python ★ 122 🍴 15

##### R-graph-gallery

A website that displays hundre

R ★ 28 🍴 13

##### Pimp-my-rmd

A few tips about R markdown

HTML ★ 11 🍴 2

##### epuRate

A clean R Markdown template

HTML

##### GenMap-Comparator

An application to compare genetic maps with D3 & Shiny

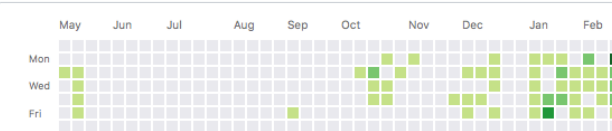
R ★ 8 🍴 5

##### Publication-WSSMV-Re

Reproducible analysis of the p  
resistance of Durum wheat to

HTML

#### 452 contributions in the last year



[Learn how we count contributions.](#)

## holtzy / the-NB-COMO-Project

Unwatch 1 Star 0 Fork 0

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A Shiny app describing comorbidity in the Danish Health Register [Edit](#)

Add topics

20 commits 1 branch 0 releases 1 contributor

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holtzy Change 2 words	Latest commit e1a433e 21 days ago
DATA	Change 2 words 21 days ago
rsconnect/shinyapps.io/holtzyan	Change 2 words 21 days ago
www	John Correction 5 months ago
.DS_Store	John Correction 5 months ago
.Rhistory	First commit 5 months ago
README.md	Last version before sending to collaborators 5 months ago
global.R	Change 2 words 21 days ago
server.R	Change 2 words 21 days ago
ui.R	Change 2 words 21 days ago

### README.md

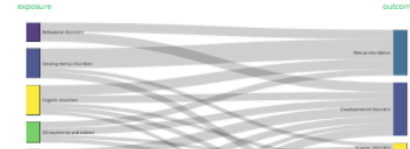
## The NB-COMO Project

### Overview

The NB-BOMO project aims to explore the patterns of comorbidity within treated mental disorders. It explores different ways to capture the complex patterns of comorbidity, notably through data visualization techniques. The first part of this project explores COMO within the [Danish National Patient Registry \(DNPR\)](#), one of the world's oldest nationwide hospital registries.

This repository gives the code of a web application that allows to interactively explore our results. It goes along with our peer reviewed publication (work in progress).

Here is a screenshot of one of the multiple visualizations proposed in the website:



SHARE



## Acknowledgment

---

John McGrath

Naomi Wray  
Peter Visscher  
Jian Yang

## Contact

---



@R\_Graph\_Gallery



[github.com/holtzy/Talk](https://github.com/holtzy/Talk)



[Yan.holtz.data@gmail.com](mailto:Yan.holtz.data@gmail.com)



[R-graph-gallery.com](http://R-graph-gallery.com)

