How I learned R

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Key things that helped me learn R
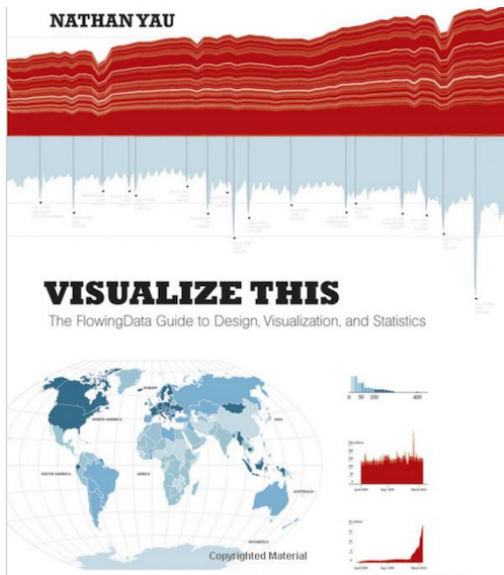
- Time
- Inspiration
- 'Customers'
- Open Source Learning & Teaching

Time - Code regularly

Usually in the evening in my own time!

Inspiration

- data viz I couldn't do in Excel

Inspiration

- A few lines of code = new data viz!

```
nba_heatmap <- heatmap(nba_matrix,
                       Rowv=NA, Colv=NA,
                       col = cm.colors(256), scale="column'
```
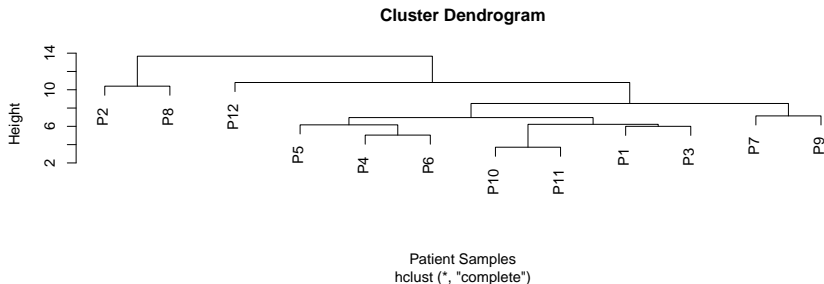
'Customers'

- Our data for a publication
- Alsagaby SA, et al J Proteome Res. 2014 13:5051-62 doi: 10.1021/pr5002803

'Customers'

My first cluster dendrogram

```
# make the cluster dendrogram object using the hclust() an
hc <- hclust(dist(rbind(P1, P2, P3, P4, P5, P6, P7, P8, P9,

# plot the cluster dendrogram
plot(hc, xlab = "Patient Samples")
```


Cluster Dendrogram

Patient Samples
hclust (*, "complete")

'Customers'

- A colleague with data
- Welton JL, Brennan P, et al J Extracell Vesicles. 2016 5:31209 doi: 10.3402/jev.v5.31209
- Training course for The Biochemical Society (http://www.biochemistry.org/)

Open Source Learning & Teaching

- ▶ R User Group
- ▶ twitter: @brennanpcardiff #rstats
- ▶ R for Biochemists Blog