

Workshop on R

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UC3M

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What is R? Why use R?

What is R?

- ▶ R is a programming language that was first developed during the 1990s.
- ▶ Particularly suitable for data analysis and creating graphics.

Why use R?

- ▶ Available for free!
- ▶ Incredibly flexible.
- ▶ Great for creating graphics.

Drawbacks?

- ▶ No point-and-click!
- ▶ Sometimes hard to figure out, what best way of doing something is.

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Why use R?

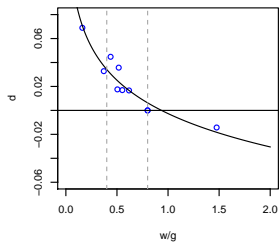
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Drawbacks?

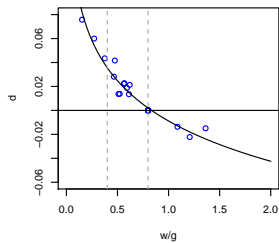
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Some examples...

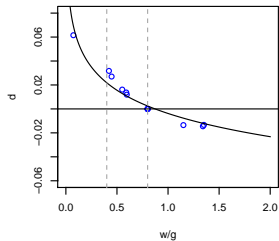
Belgien



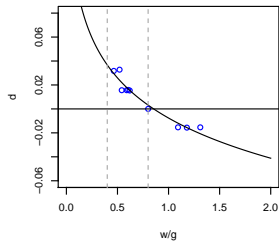
Österreich



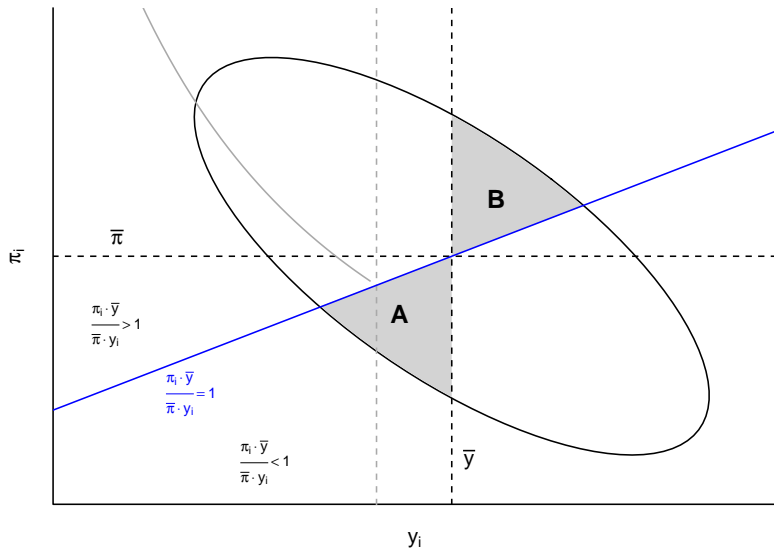
Frankreich



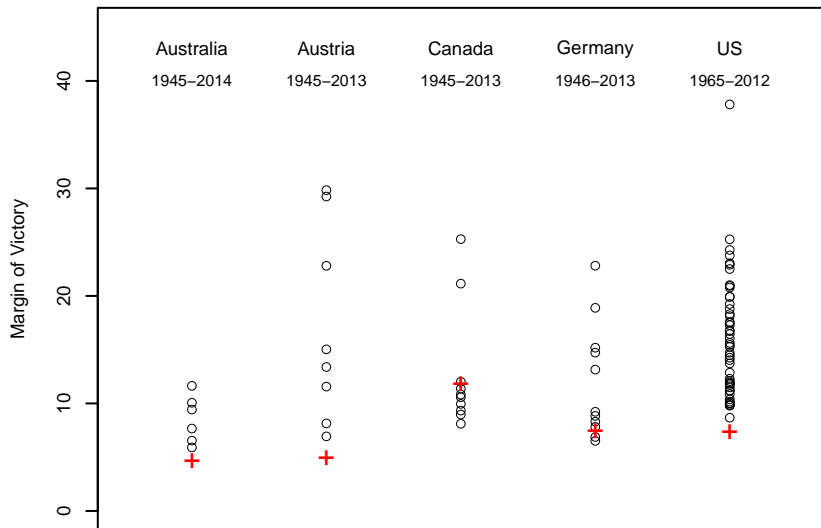
Deutschland



Some examples...

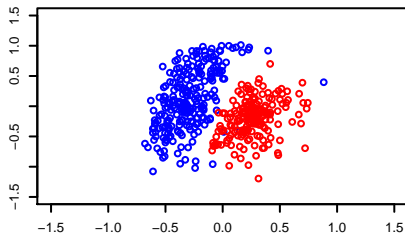


Some examples...

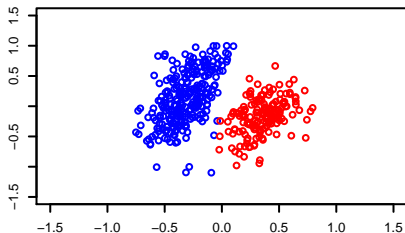


Some examples...

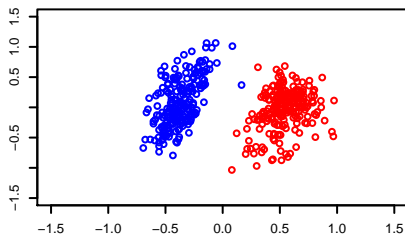
97th Congress (1980)



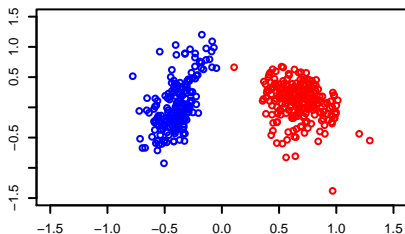
102th Congress (1990)



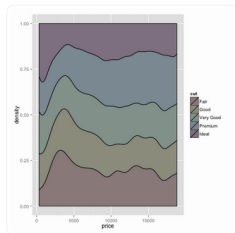
107th Congress (2000)



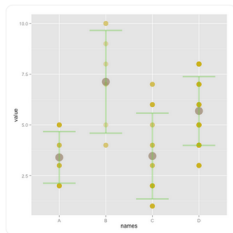
112th Congress (2010)



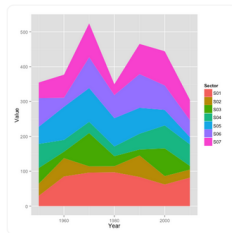
Some examples...



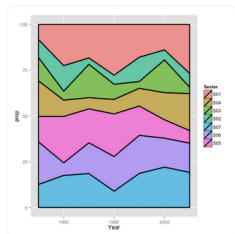
#135 Stacked density plot



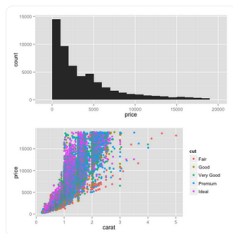
#47 groups comparison with ggplot2



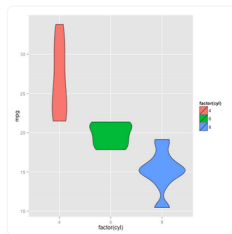
#136 Stacked Area Graph



#136 Stacked Area Graph



#117 Multiple ggplot2 on one page



#95 Violin plot with ggplot2

Source: <http://www.r-graph-gallery.com/portfolio/ggplot2-package/>