

R for Analytics

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Agenda

- This talk is about the R community
- Its about going down a corridor and opening doors
 - But not really going into them
- To disambiguate: Mango (and to check I'm online)

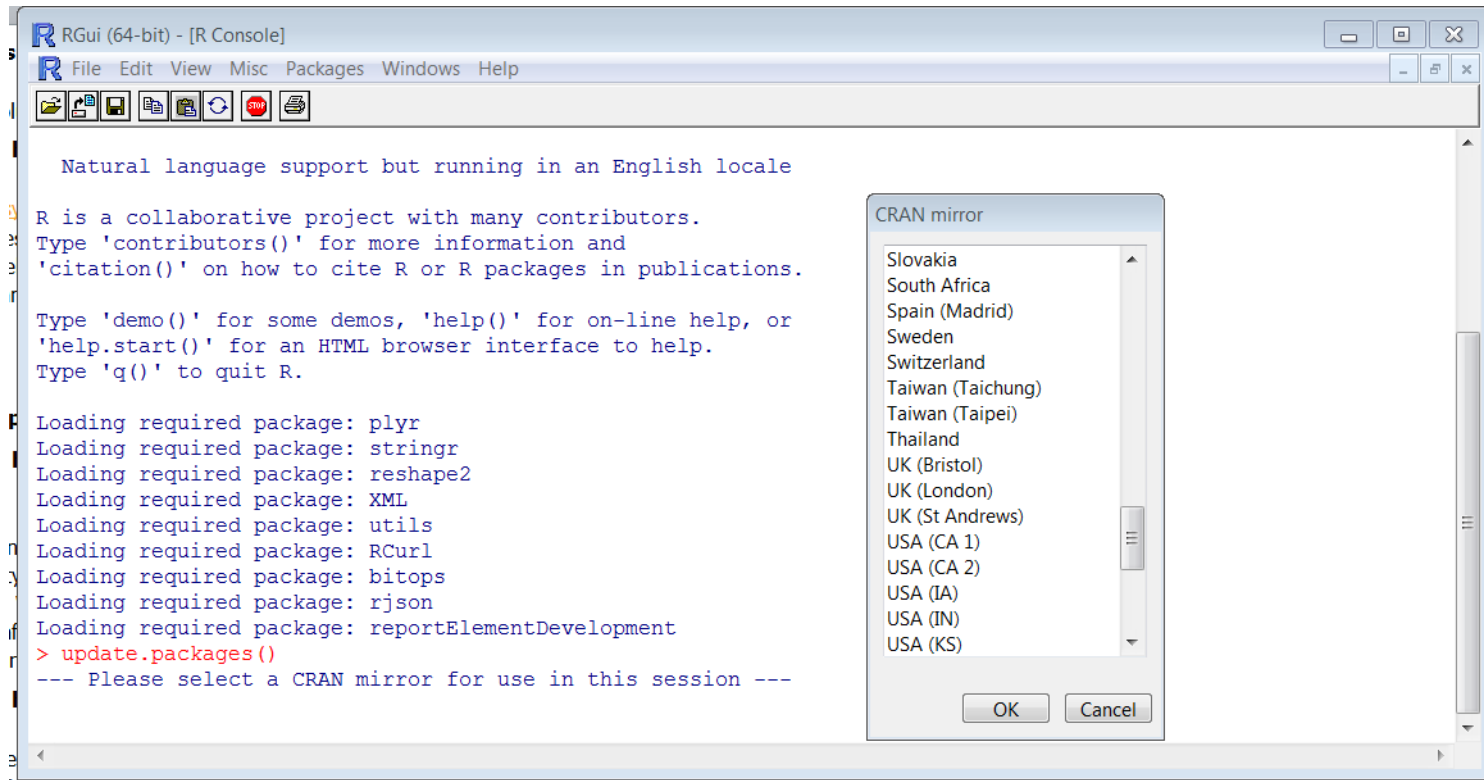
Where does R help?

- R is an Environment
 - Language
 - Packages
 - Data
- Tools
 - Best update system available
 - 5000 packages each with 10-100 functions
 - Very active help community
- Projects

Where does R help?

- Easy to use
 - Gui's (vanilla, RStudio, Eclipse, many more)
 - Intellisense, integrated help
- User community
 - [Annual World Wide Conferences](#)
 - Specialist Conference ([R Finance](#), biometrics, ...)
 - [Blogs](#)
 - Local Communities ([LondonR](#), ...)

Gui's (vanilla, RStudio, Eclipse, many more)

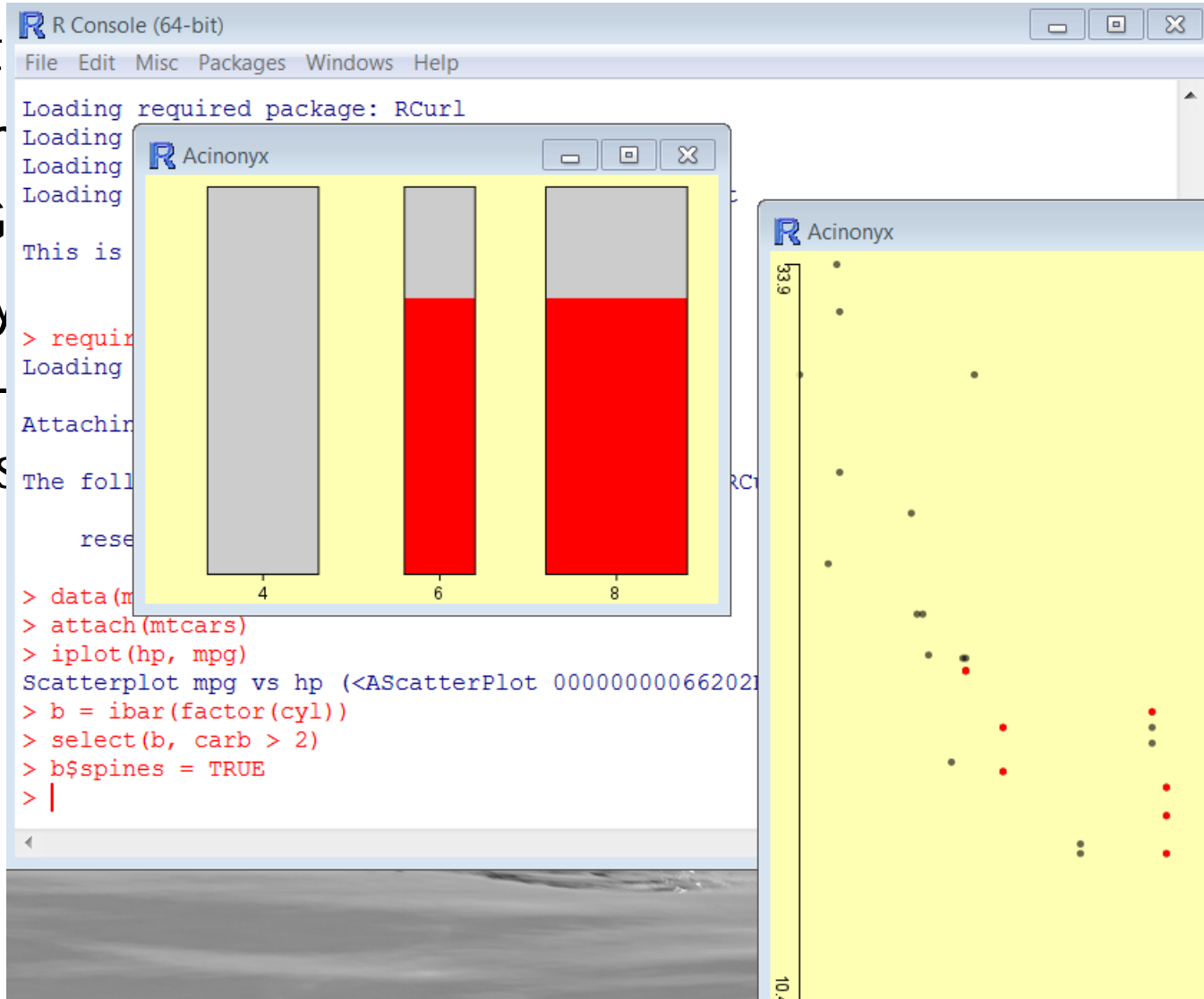


Where does R help?

- Analysis
 - Every university
 - Every organisation
- Integration with other Systems
 - Oracle VM
 - RServe (java and .NET clients)
 - RdotNET
- Programming Support
 - Debugger
 - Documentation
 - Package Creation

Where does R help?

- Presentat
- Simply th
- Cairo G
- Acinonyx
- Ggplot2
- googleVis



The R environment

- an effective data handling and storage facility,
- a suite of operators for calculations on arrays, in particular matrices,
- a large, coherent, integrated collection of intermediate tools for data analysis,
- graphical facilities for data analysis and display either on-screen or on hardcopy, and
- a well-developed, simple and effective programming language which includes conditionals, loops, user-defined recursive functions and input and output facilities.

Some Examples

- Graphics
 - GraphML
 - Interactive
- Parallel
 - Rmpi, parallel, smp ...
- Big Data
 - bigmemory, ff, rh5

What Next?

- [China](#)
- Bigger data, more parallelisation
- Professional Services
 - How to make money out of open source?
- [julia](#)
 - [Revolution](#), [Mango](#) ...