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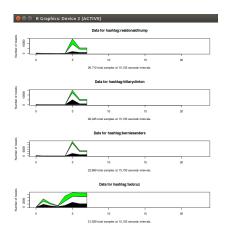
What are we going to cover?

- Look to the future
- Data wrangle tweets using R
- Wrap-up the boot camp



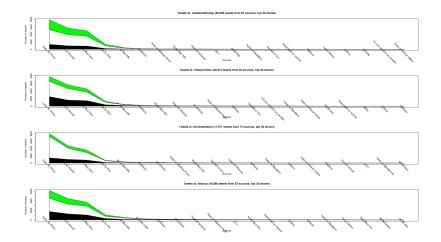
Things that we will be doing.

- Data wrangle tweets using R
- 2 Conduct sentiment analysis on tweets
- Look at the sentiments in different ways



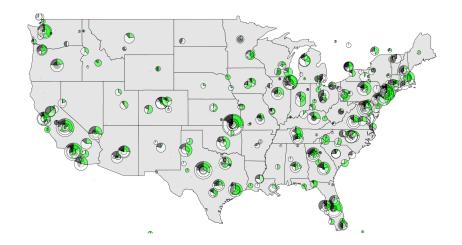
Sentiments over time.

Sentiment by sending device



Things that will be happening today

Sentiment by geographic location

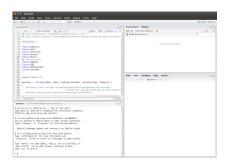


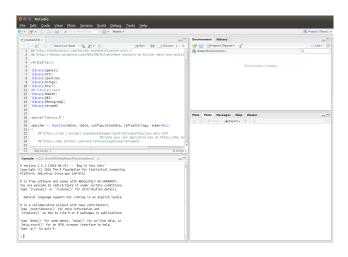
A complete IDE

A complete, integrated R development environment.

- Text editor
- R console
- Variable list and contents
- Tabbed display for different uses

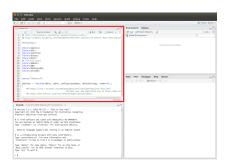
See software overview and design document for version and download information.

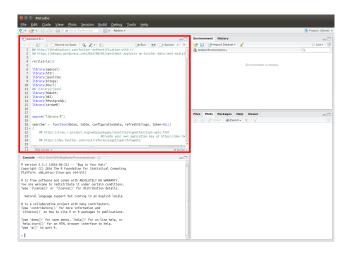




Editor

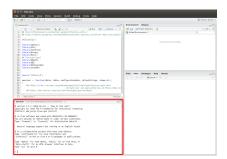
- "Smart" editor
- CTRL + O to open a file
- CTRL + S to save a file
- CTRL + A to highlight contents
- CTRL + Enter to transfer contents to Console
- Multiple files can be opened at once

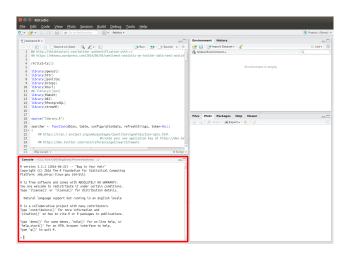




Console

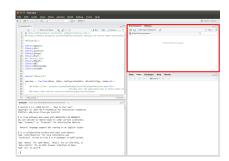
- Interprets R commands
- Commands from editor, other panels, or manually entered
- Execution errors appear here
- Contents of print function appear here

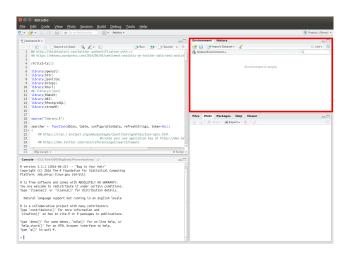




Variables

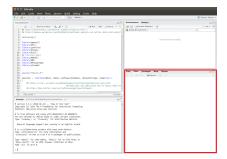
- Displays contents of selected environment (including variables)
- Display history of console commands
- Can save and load data from data files

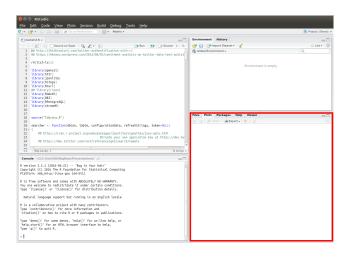




Tabbed display

- Displays files in the current directory
- Displays plots from the console
- Allows packages to be added, or removed from the console
- Provides help/man pages for R functions and packages





Starting an R script in the background

The image shows a Windows environment.

A *nix environment command is: Rscript backend.R &

```
CNProgram Files/NNR-3.3.1\bis\1386)Reript ZnNostCampNeripts\backend.R
```

```
- - X
C:\Windows\system32\cmd.exe
C:\Program Files\R\R-3.3.1\bin\i386>Rscript Z:\BootCamp\Scripts\backend.R
```

Q & A time.

"The Answer to the Great Question ... Of Life, the Universe and Everything ... is ... forty-two,' said Deep Thought, with infinite majesty and calm."

Douglas Adams, The Hitchhiker's Guide to the Galaxy



What have we covered?

- A preview of today's activities
- An overview of RStudio



Next: Hands on analyzing tweets with R.