

Cool stuff from the useR! conference

Richard Layton

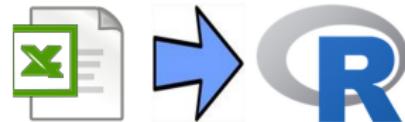
Mechanical Engineering, Rose-Hulman Institute of Technology

www.graphdoctor.com
github.com/graphdr

Indy useR Group, 2015-07-21.

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readxl



- ▶ supports xls and xlsx formats
- ▶ no external dependencies (unlike xlsx, xlsReadWrite)
- ▶ works with tabular data stored in a single sheet

[slides] Getting your data into R, Hadley Wickham

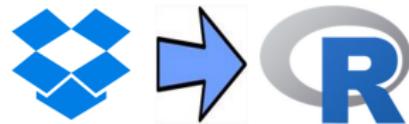
readr



- ▶ friendly way to read tabular data into R
- ▶ function names with underscores (not dots)
 - Read delimited files: `read_delim()`, `read_csv()`, `read_tsv()`, `read_csv2()`.
 - Read fixed width files: `read_fwf()`, `read_table()`.
 - Read lines: `read_lines()`.
 - Read whole file: `read_file()`.
 - Re-parse existing data frame: `type_convert()`.

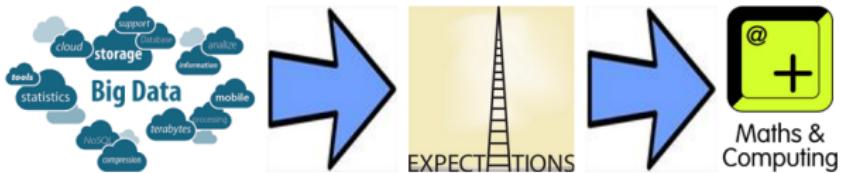
[slides] Getting your data into R, Hadley Wickham

rdrop2



- ▶ upload and download files from a Dropbox account
- ▶ file operations (dir, copy, move, delete)
- ▶ account information (including quotas)
- ▶ search

assertr



- ▶ explicitly check assumptions about data before analysis
- ▶ two new verbs, `verify` and `assert`

```
mtcars %>%  
  assert(in_set(4, 6, 8), cyl) %>%  
  assert(within_bounds(10, 40), mpg) %>%  
  group_by(cyl) %>%  
  summarise(mean.mpg=mean(mpg))  
  
#   cyl      mean.mpg  
#   4        26.66364  
#   6        19.74286  
#   8        15.10000
```

dryworkflow

D R Y “don’t repeat yourself”

`createProjectSkeleton()`

```
admin/
backups/
configFile.rds
data/
doc/
extra/
lib/
Makefile
posted/
readMergeData/
reports/
src/
test/
work/
          data
          |
          +-- codebook
              |   +-- data1_codebook.csv
              |   +-- small2_codebook.csv
              |
              +-- derived
                  |   +-- analyse_data1-birth_csv.RData
                  |   +-- analyse_data1-yr21_csv.RData
                  |   +-- analyse_small2_csv.RData
                  |   +-- clean_data1-birth_csv.RData
                  |   +-- clean_data1-yr21_csv.RData
                  |   +-- clean_small2_csv.RData
                  |   +-- orig_data1-birth_csv.RData
                  |   +-- orig_data1-yr21_csv.RData
                  |   +-- orig_small2_csv.RData
                  |   +-- summary_data1-birth_csv.RData
                  |   +-- summary_data1-yr21_csv.RData
                  |   +-- summary_small2_csv.RData
                  |
                  +-- original
                      |   +-- data1-birth.csv
                      |   +-- data1-yr21.csv
                      +-- small2.csv
```



admin	posted
backups	readMergeData
data	reports
doc	source
extra	test
lib	work

- ▶ initial directories
- ▶ template log files
- ▶ template R syntax
- ▶ initial makefiles
- ▶ initial git repository

Microsoft acquires Revolution Analytics



Get Technical Support



Community Applications Products AdviseR Resources Company

Microsoft Completes Acquisition of Revolution Analytics

MICROSOFT BLOG

REVOLUTIONS BLOG



April 6, 2015. “This acquisition will help customers use advanced analytics within Microsoft data platforms.”

Microsoft joins R Consortium



Working with the R Foundation
Supporting the R user community
Continuing the growth of the R Project
Linux Foundation collaborative project
Non-profit trade organization



NEWS

R Consortium aims to strengthen data analysis



Credit: Thinkstock

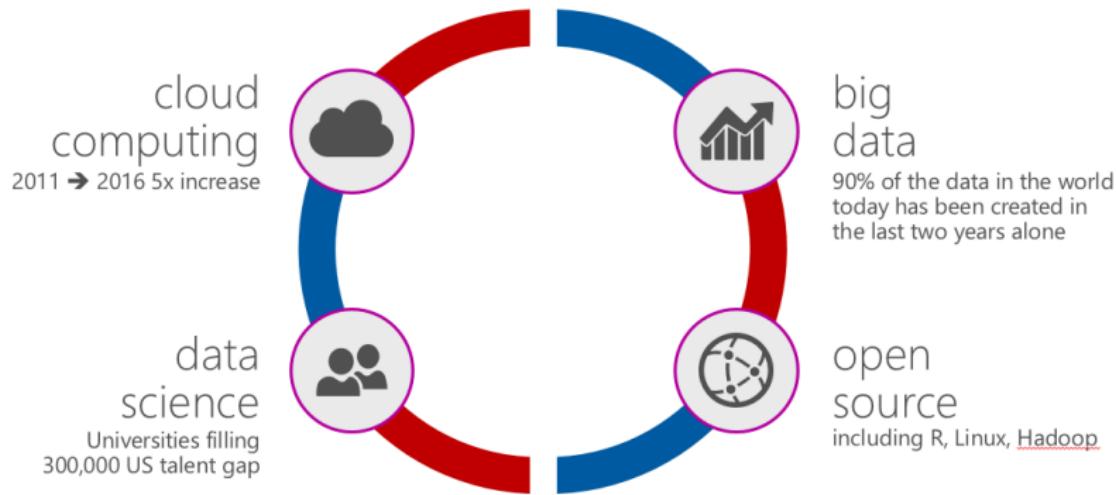
Representatives from the R Foundation and industry representatives including Microsoft, Google and Oracle have formed the R Consortium to strengthen the technical and user communities around the R programming language for statistical data analysis.



By Thor Olavsrød | Follow

CIO | Jun 30, 2015 10:33 AM PT

Microsoft identifies these transformational trends



2016 useR! Conference



Stanford University
Palo Alto, CA
June 27-30, 2016