

2. Manipulate

R³ training noaa-iea.github.io/r3-train

Ben Best 2021-06-21

1. Collaborate Recap

- Good job!
 - github.com/noaa-iea/r3-train/pulls
 - Open source project example: <u>icons/pull/58</u>
 - o <u>github.com/noaa-iea/r3-train/issues</u>
 - Merge pull request with Github Desktop; + resolve file conflicts with Atom
- ToDo for me:
 - Respond to <u>notes | r3-train Google Docs</u>
 - Google Group
 - + Feedback menu
 - Github Discussions

2. Manipulate

For Big-Data Scientists, 'Janitor Work' Is Key Hurdle to Insights

nytimes.com/2014/08/18/technology/for-big-data-scientists-hurdle-to-insights-is-janitor-work.html

"Data scientists, according to interviews and expert estimates, spend from 50 to 80 percent of their time mired in the mundane labor of collecting and preparing data, before it can be explored for useful information." — NY Times (2014)

```
mdl <- maxent(tbl_env, tbl_obs)
tbl_pred <- predict(mdl, tbl_envnew)</pre>
```



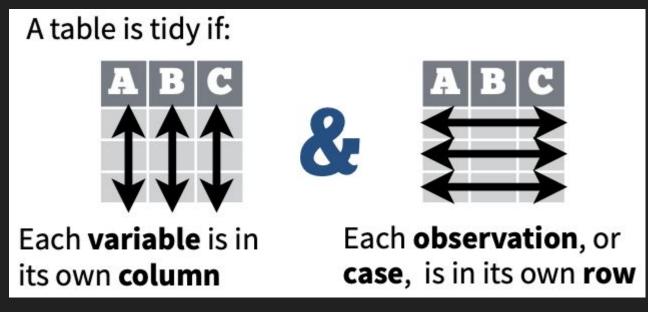
"Happy families are all alike; every unhappy family is unhappy in its own way."

— Leo Tolstoy

"Tidy datasets are all alike, but every messy dataset is messy in its own way."

— Hadley Wickham





ie "long" vs "wide"

"Tidy datasets are all alike, but every messy dataset is messy in its own way."





Tidy Manifesto

cran.r-project.org/web/packages/tidyverse/vignettes/manifesto.html

1. Reuse existing data structures



2. Compose simple functions with the pipe



3. Embrace functional programming ™ x



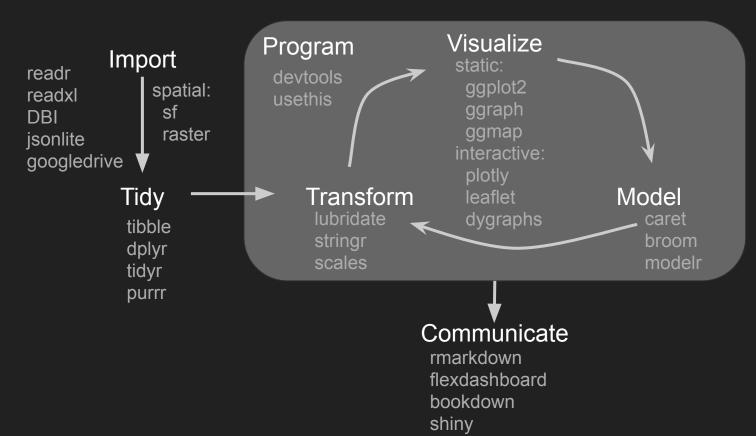
blog.codinghorror.com/ falling-into-the-pit-of-success

4. Design for humans



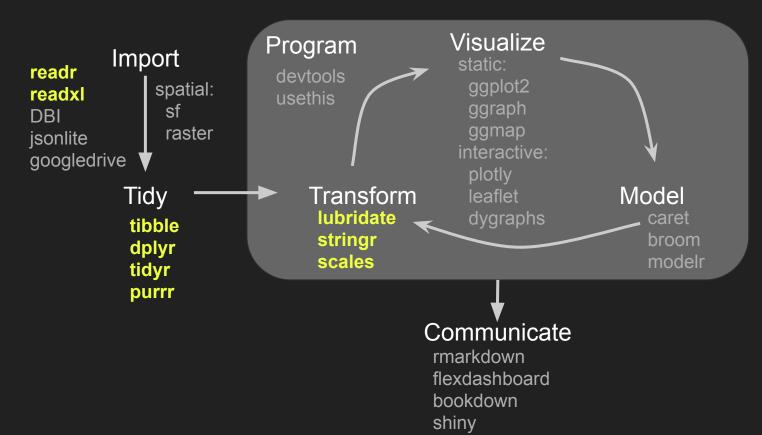


Tidyverse process & R packages





Tidyverse process & R packages

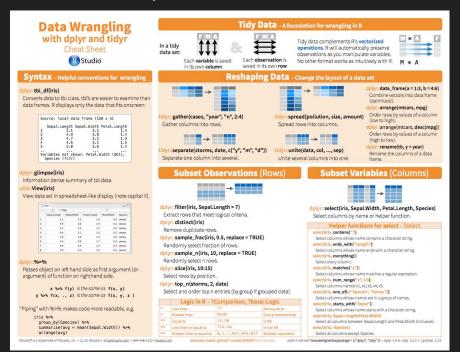


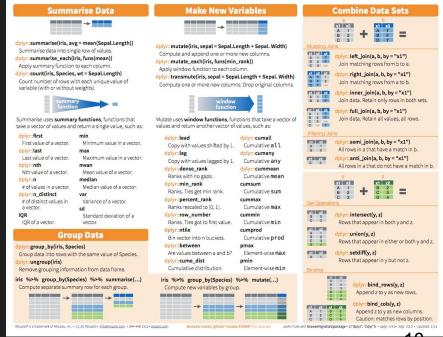


Cheatsheets are

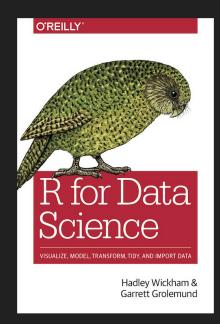


RStudio: Help > Cheatsheets > Data wrangling with dplyr

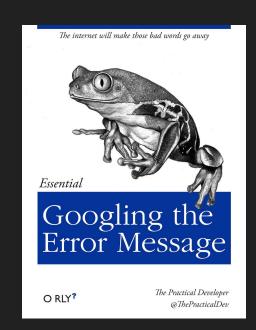




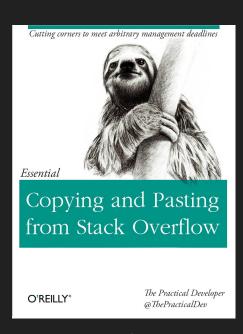
Resources



r4ds.had.co.nz



google.com



stackoverflow.com

Lesson

noaa-iea.github.io/r3-train/manipulate.html