All About Tibbles

R-Ladies MeetUp

September 19, 2017

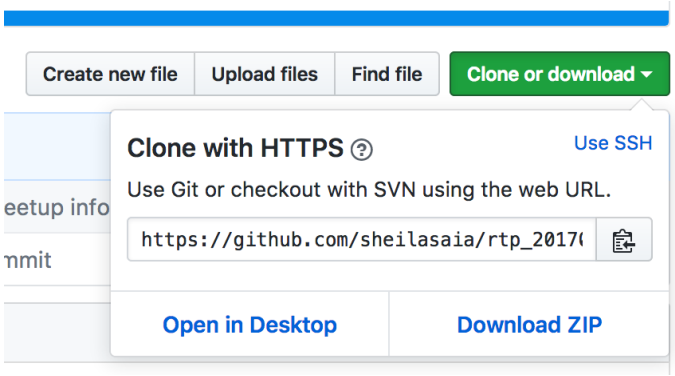
Lightning Talks

Yu Chen - How I met R

Workshop Set-Up

Find all up-to-date materials here:
https://github.com/sheilasaia/rtp_20170919_tibbles/

To get them 'clone' or 'download' repository to your computer



Load the libraries you'll need (see the R script)
---- 2. set up ----

Once upon a time…

sheilasaia 11:17 AM
Sent from **R-Ladies RTP**

Hi Elaine and Mine!

I was thinking it would be cool to have a meetup about tibbles. I've been hearing a lot about them and am still a little fuzzy on what they are and why they're useful. I was also thinking it would be interesting to do something with the new sf package. There's also a geom_sf() for plotting spatial data in R! Exciting stuff.

Hope you both are well and enjoying your summers!
Sheila

#learningtogether

Objectives

By the end of this workshop you will be able to:

describe different data structures in R

explain some differences between data frames and tibbles

Introductions

What is your name?

What is your favorite thing to do in R/what do you dream of doing in R?

What data structures are used in R?

(2 min think on your own, 3 min share with group)

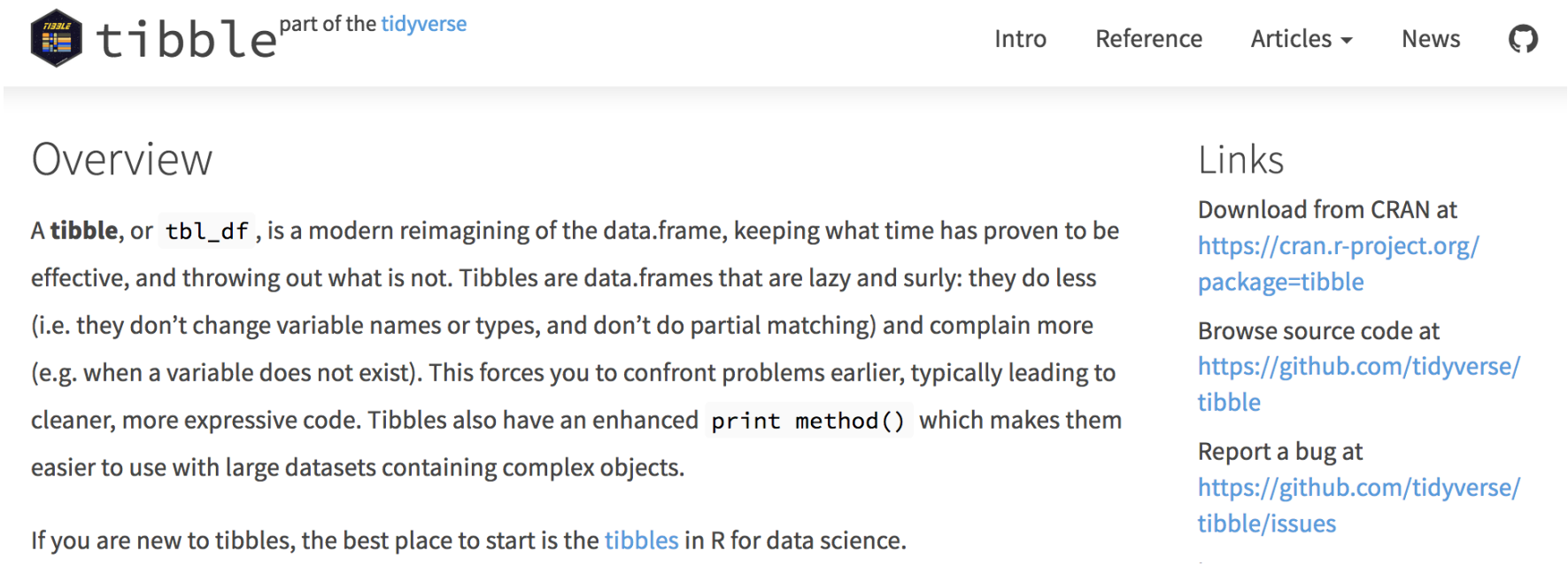
Move to R script

---- 3. basic data structures in R ----

What do you know about tibbles?

(2 min think on your own, 3 min share with group)

Tidyverse & Tibbles



source: http://tibble.tidyverse.org/

Move to R script

---- 4. all about tibbles (as compared to data frames) ----

Exercise

---- 4.4 exercise ----

Let's work through this exercise together:
http://r4ds.had.co.nz/tibbles.html#exercises-18

Objectives

I hope you can now:

describe different data structures in R

explain some differences between data frames and tibbles

I'm not advocating for/against the use of tibbles (I almost exclusively data frames) but now you know more and can choose which to use based on what you want to do.

Announcements

Next R-Ladies RTP meetup is October 26, 2017

rstudio::conf in Febrary 2018 (San Diego, CA)
https://www.rstudio.com/conference/

Contact

If you have any follow up questions or you find other interesting tibble info, let me know!

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Answers

(don’t look at the slides below unless you really have to)

Also see exercise answers in ’tibbles_exercise_answers_20170919.R”

What data structures are used in R?

vector – fixed size, same type of data, no nested structure

list – unfixed size, different data types, nested structure is ok

matrix – 2D vector

array – greater than 1D vector, 2D array is almost = a matrix

data frame – table, each column holds the same data type

tibble – like a data frame but with some differences…

(2 min think on your own, 3 min share with group)

What do you know about tibbles?

- part of the tidyverse

- similar to data frames

- lazy & surly…more on this soon

(2 min think on your own, 3 min share with group)