

Data Wrangling with R: Day 1

Getting started

Presented by Emi Tanaka

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MONASH University

1st December 2020 @ Statistical Society of Australia | Zoom



Emi Tanaka

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 @statsgen

About your instructor

- I teach R at university courses as well as use it daily for research and hobby 
- My research includes mixed models, experimental design, statistical genetics and data visualisation.
- My main application area is bioinformatics and agricultural, particularly plant breeding.
- My childhood dream was to be a comic artist.. it's not too late, is it?



Fan Cheng

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About your helper

- I am a second-year PhD student in Statistics at Monash
- I work for the Monash Data Fluency team to teach workshops on R, Python, Git and Unix
- My research project is about manifold learning based on empirical probability distributions. If you are interested, I am more than happy to talk about it :)



Introduce yourself in the chat!

What's your profession?

Where do you live?

What's your hobby?

What's would you like for people to know about you?

Day 1 Schedule

Tue 1st Dec 2020

Time	Activity
1.00-1.30	Registration + Installation Help
1.30-2.00	Lesson 1: Base R and tidyverse
2.00-2.15	<i>Break out session</i>
2.15-2.45	Lesson 2: Data manipulation with dplyr
2.45-3.00	<i>Break out session</i>
3.00-3.30	<i>Coffee Break</i>
3.30-4.00	Lesson 3: Manipulating strings with stringr
4.00-4.15	<i>Break out session</i>
4.15-4.45	Lesson 4: Tidying data with tidyr
4.45-5.00	<i>Break out session</i>

Day 2 Schedule


Wed 2nd Dec 2020

Time	Activity
1.00-1.30	Installation Help
1.30-2.00	Lesson 1: Relational data wrangling, starring janitor and broom
2.00-2.15	<i>Break out session</i>
2.15-2.45	Lesson 2: Formatting factors with forcats
2.45-3.00	<i>Break out session</i>
3.00-3.30	<i>Coffee Break</i>
3.30-4.00	Lesson 3: Dealing with dates with lubridate
4.00-4.15	<i>Break out session</i>
4.15-4.45	Lesson 4: Advanced data wrangling, starring purrr
4.45-5.00	<i>Break out session</i>

Getting Started

```
remotes::install_github("emitanaka/dwexercise")
```



- Find the latest updated material at  <http://emitanaka.org/datawrangle-workshop-ssavic/>
- All materials are hosted in GitHub repo [here](#)
- All exercises are hosted as an R-package on GitHub repo [here](#)
- You can download the current material [here](#)

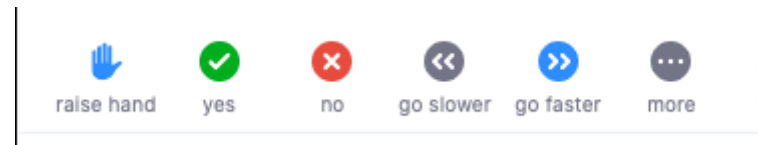
- Some materials may be updated before the workshop is completed so it will be better to re-download the latest material at the conclusion of the workshop.
- I will send you a follow up email with link to download all material

Help me!

You can write in the chat.

You can ask (unmute yourself).

You can raise hand from zoom under Participants.



We'll come around in breakout sessions.

Session Information

```
devtools::session_info()
```

```
## - Session info -----  
## setting value  
## version R version 4.0.1 (2020-06-06)  
## os      macOS Catalina 10.15.7  
## system x86_64, darwin17.0  
## ui      X11  
## language (EN)  
## collate en_AU.UTF-8  
## ctype   en_AU.UTF-8  
## tz      Australia/Melbourne  
## date    2020-11-30  
##  
## - Packages -----  
## package * version date      lib source  
## anicon   0.1.0  2020-06-21 [1] Github (emitanaka/anicon@0b756df)  
## assertthat 0.2.1  2019-03-21 [2] CRAN (R 4.0.0)
```

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