

Data wrangling 2



01/15/2020

Logistics

Homework 1

- Due **Thursday 16th, 8pm**
- **Make sure to submit on time!**
- Don't wait until the very last moment to knit your RMarkdown file into a pdf. It may not compile and debugging takes time ...
- You can upload earlier versions of your homework on Canvas and still update until the deadline.
- Get help via Piazza!

Homework 1

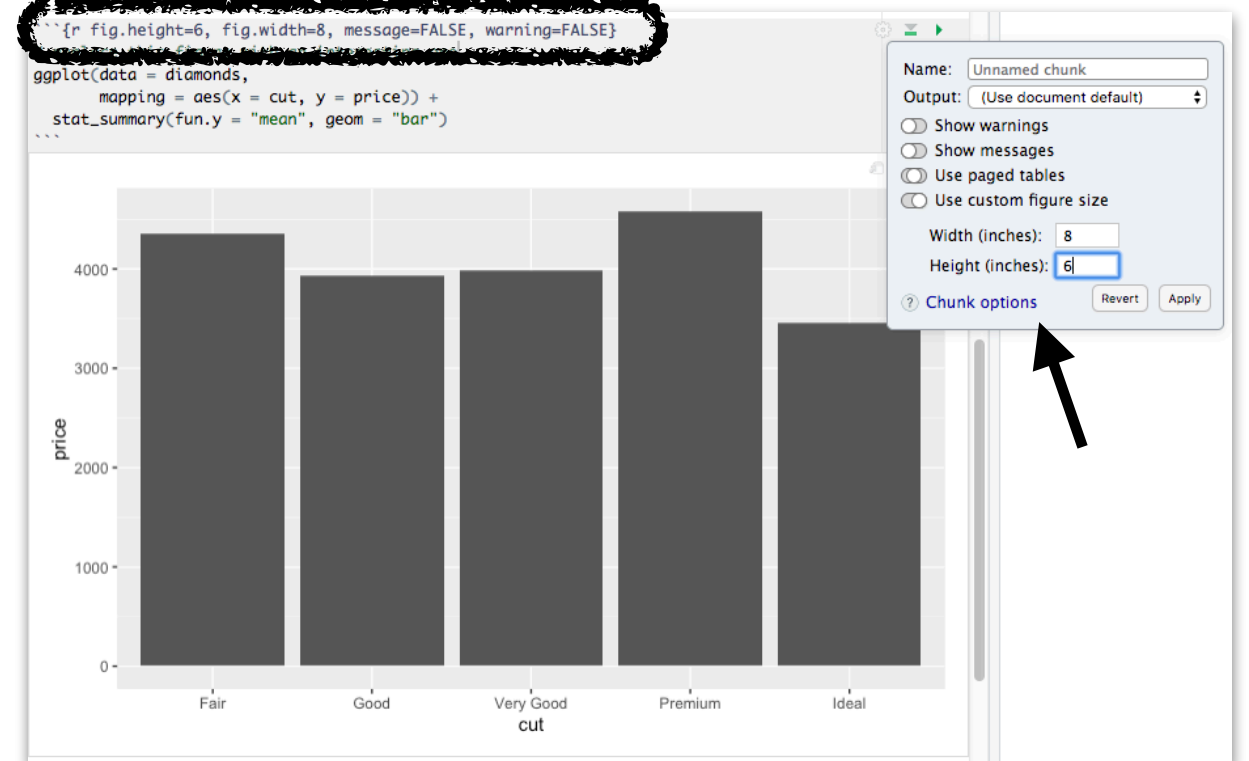
- **We encourage you to work in groups!**
- It's more fun
- You learn more (learning through explaining)

Homework 1

- You can adjust the figure size in your output by using the code chunk options

```
```{r, eval=F}
install.packages("tinytex")
tinytex::install_tinytex()

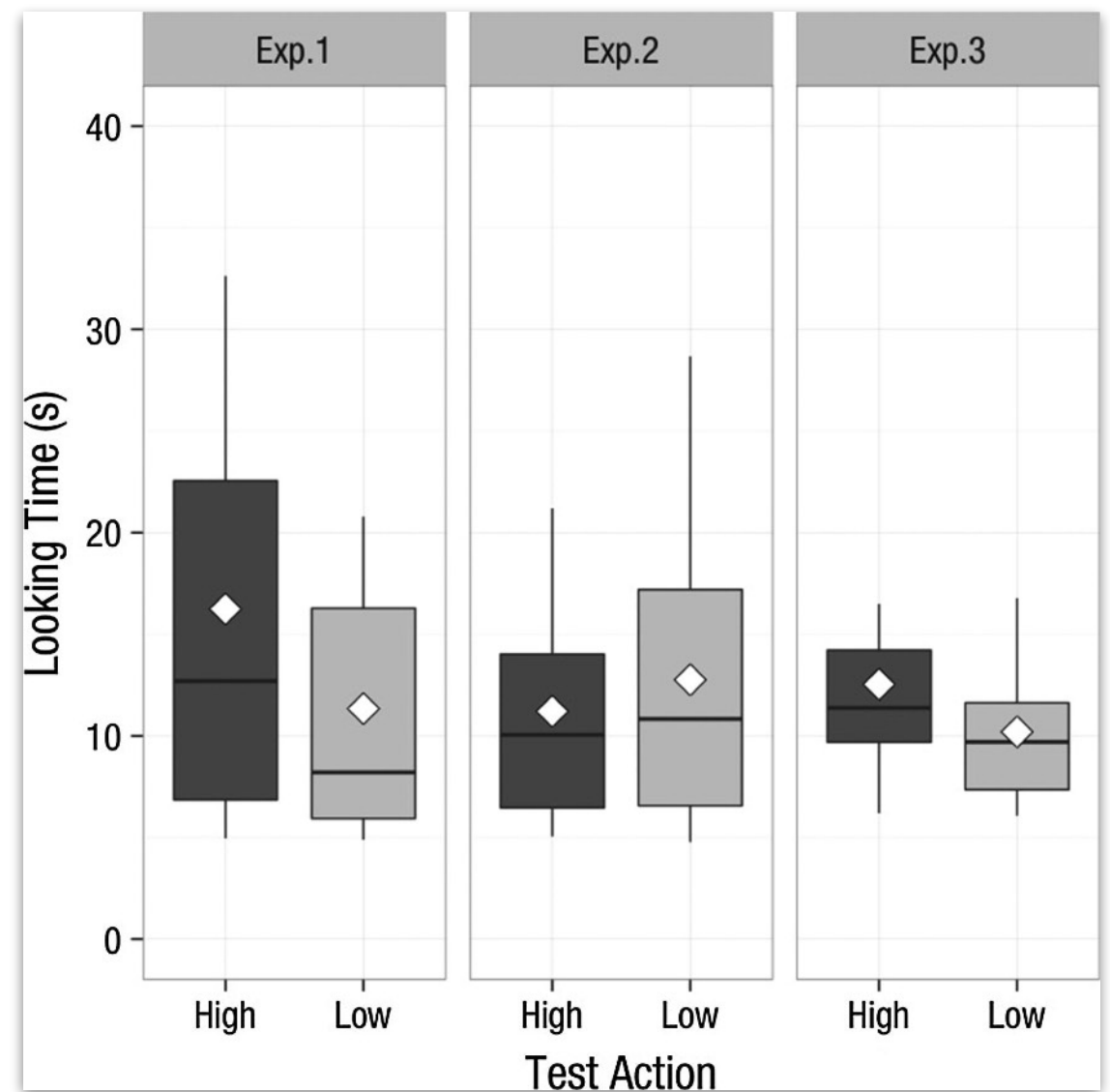
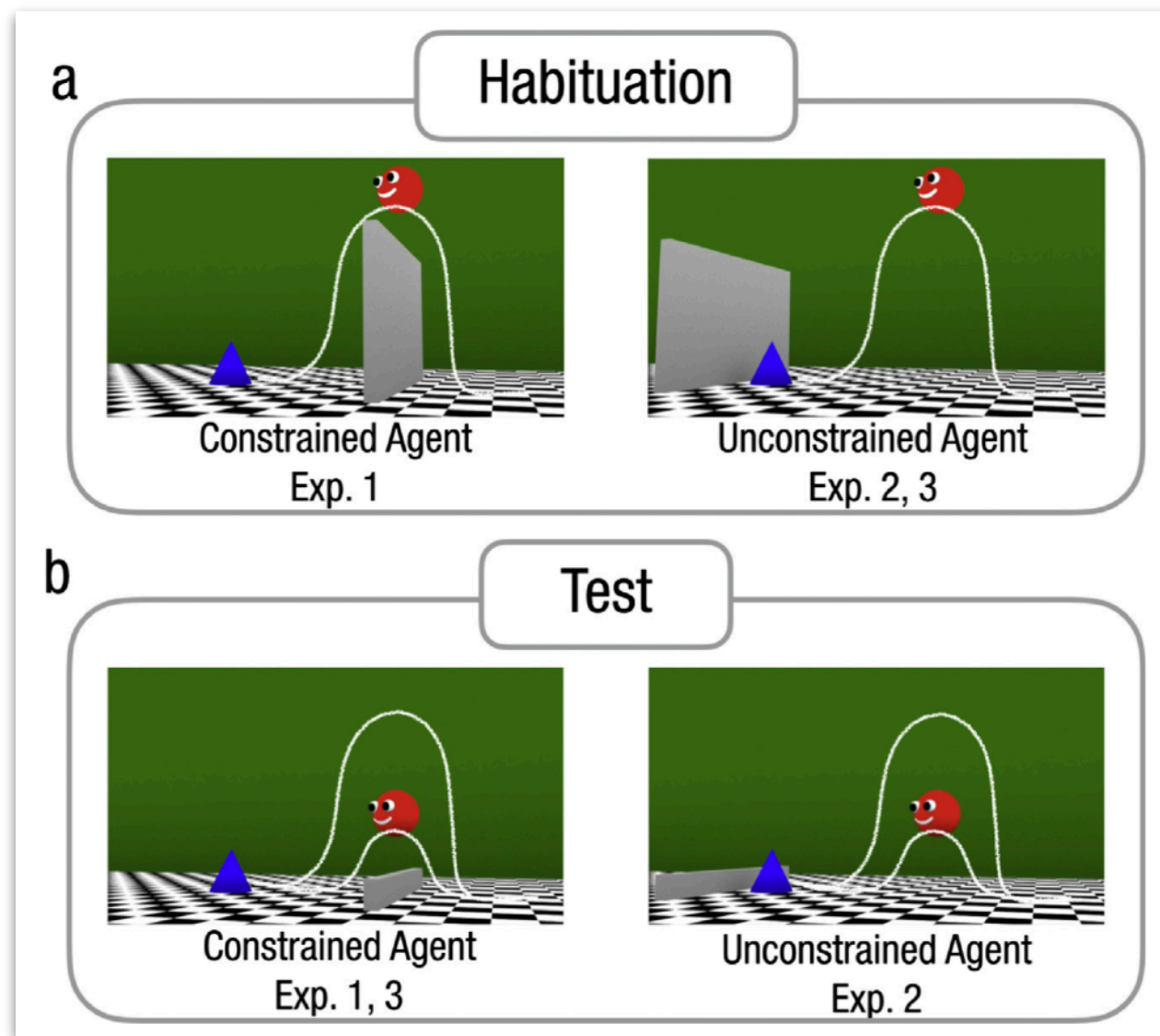
If you experience an error like the following when trying to knit to pdf:
!LaTeX Error: File `xcolor.sty' not found.
then run the following command: tinytex::tlmgr_install("xcolor")
and try to knit again.
```
```



<https://yihui.org/knitr/options/>

Application section

- Visualization & Data wrangling
- Thursday, Jan 16th, **4:30-5:20pm** in **160-322**



Using functions with tidyverse verbs

```
df.starwars %>%  
  mutate_at(.vars = vars(height, mass, birth_year), .funs = "scale")
```

my
recommendation

- `.funs = "scale"`
- `.funs = scale`
- `.funs = function(x) {scale(x)}`
- `.funs = ~ scale(.)`

flexible, short, works well with
other verbs we'll learn about later

- `.funs = ~ scale(., scale = FALSE)`

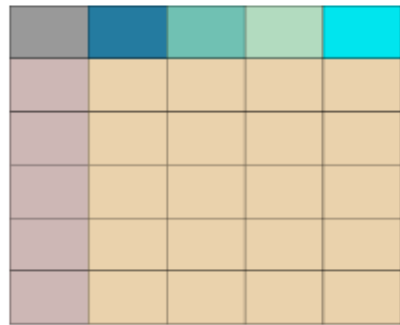
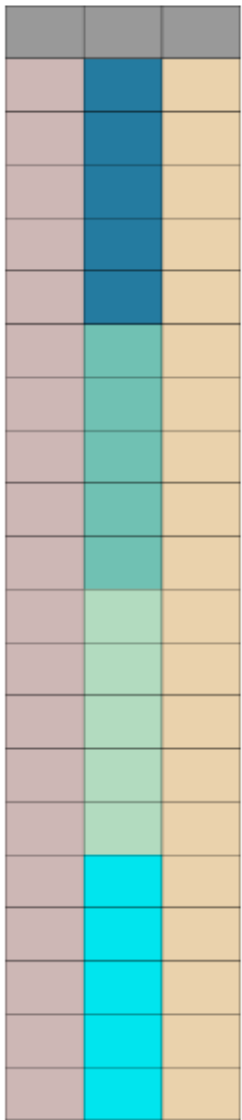
Data wrangling time ...

`pivot_longer()`



a

b



wide



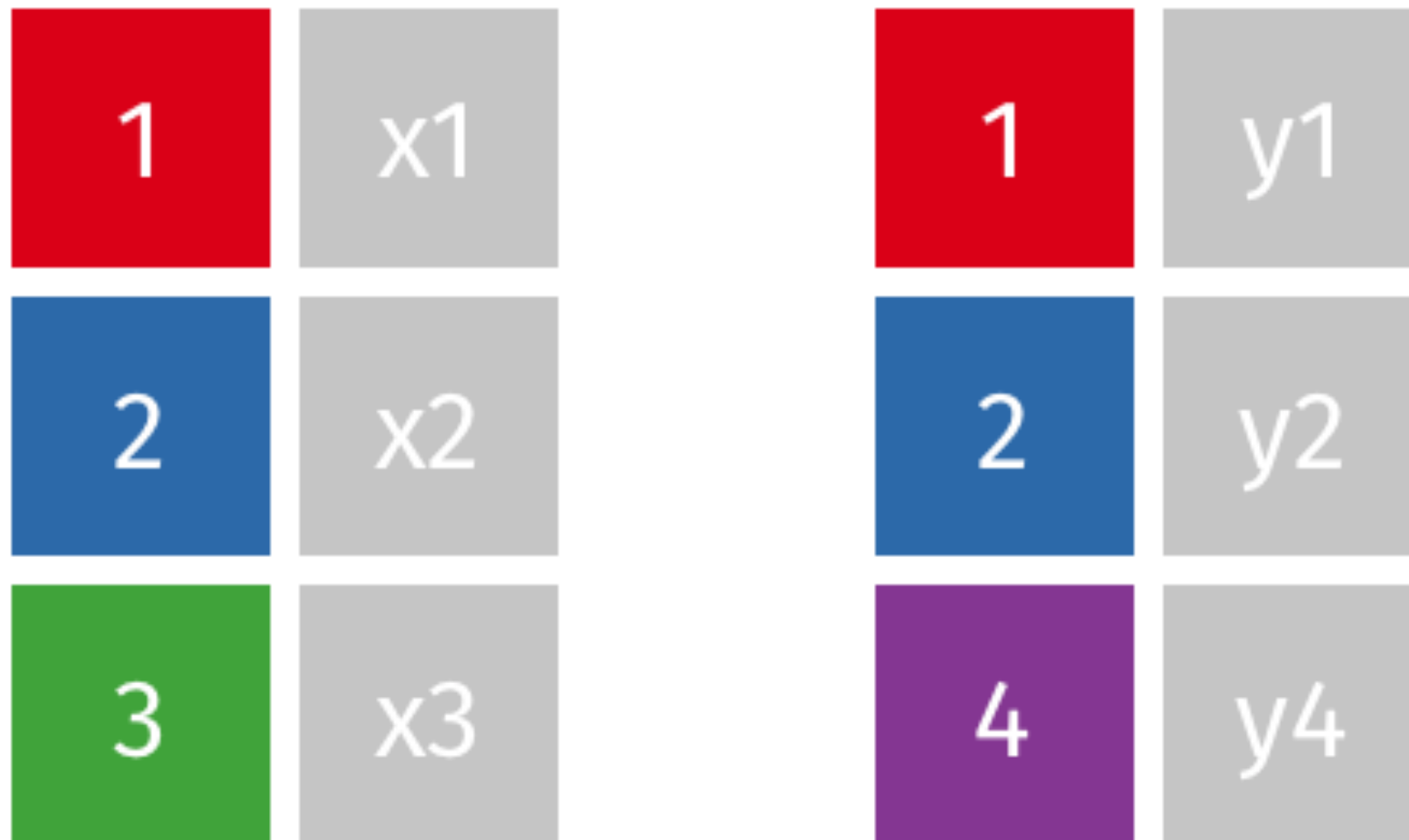
long



`pivot_wider()`

`left_join()`

`left_join(x, y)`



`left_join()`

`left_join(x, y)`

| | |
|---|----|
| 1 | x1 |
| 2 | x2 |
| 3 | x3 |

| | |
|---|----|
| 1 | y1 |
| 2 | y2 |
| 4 | y4 |
| 2 | y5 |

`full_join()`

`full_join(x, y)`

| | |
|---|----|
| 1 | x1 |
| 2 | x2 |
| 3 | x3 |

| | |
|---|----|
| 1 | y1 |
| 2 | y2 |
| 4 | y4 |

Exercises

05:00

I'm done.

blue

Please help.

pink

10:00

I'm done.

blue

Please help.

pink

Feedback

How was the pace of today's class?

much
too
slow

a little
too
slow

just
right

a little
too
fast

much
too
fast

How happy were you with today's class overall?



What did you like about today's class? What could be improved next time?

Thank you!