The Quantified Self and Media Consumption Tracking

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Psychology of Data Visualization
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WHAT IS THE QUANTIFIED SELF?

Self knowledge through numbers

Self-improvement

Personal Informatics

Self-tracking

Self-monitoring

Life logging

Self-surveillance

Personal analytics

THE QUANTIFIED SELF & PSYCHOLOGY

Everyday Science

Making science accessible

Parallels to psychological research



HISTORY

 Wired, 2007: "A collaboration of users and tool makers who share an interest in self-knowledge and tracking"

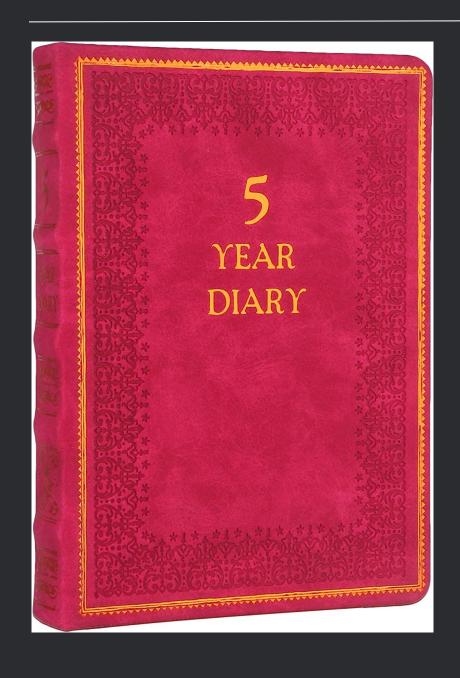
Quantified Self community:



Quantified Self supports every person's right and ability to learn from their own data. We're committed to accuracy, independence, inclusiveness, and transparency in all of our work.

• "Quantified self" existed far before this...

PERSONAL LIFE

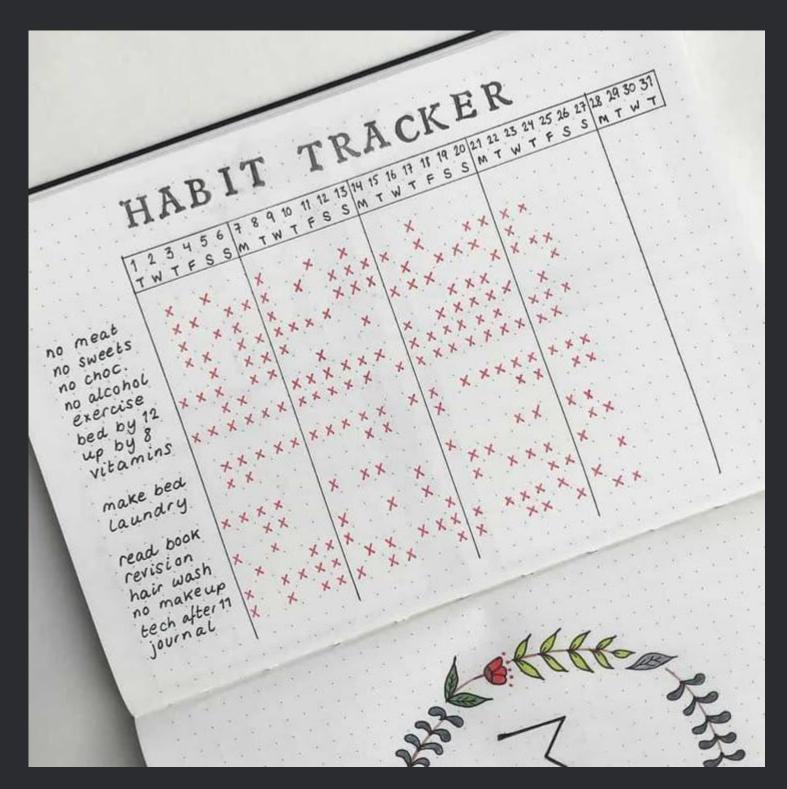


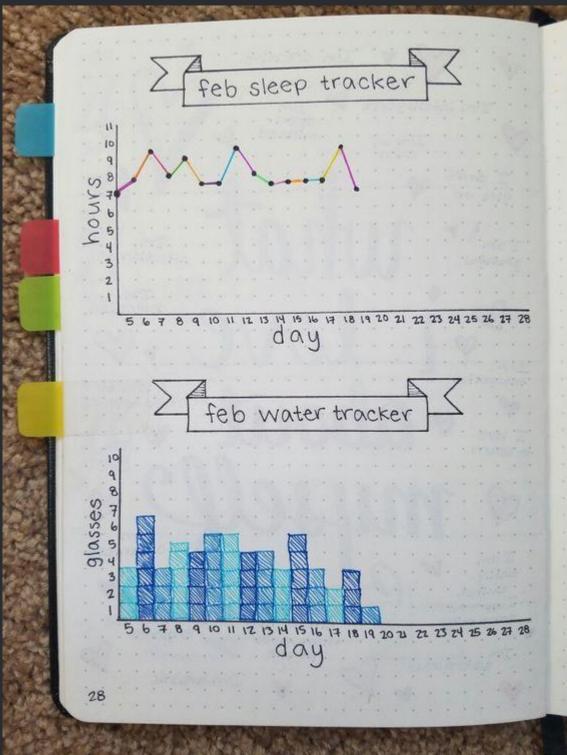






PERSONAL HABITS



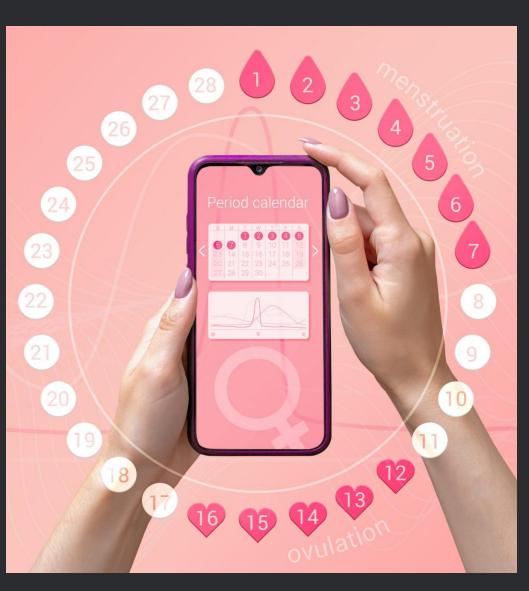


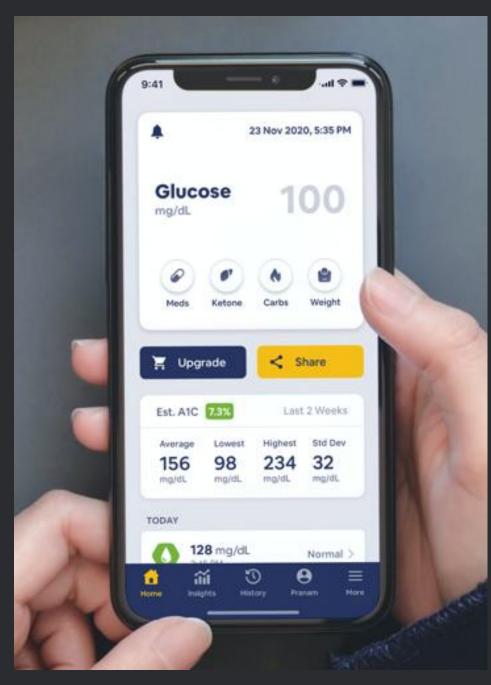


HEALTH









STAGES OF QUANTIFYING THE SELF

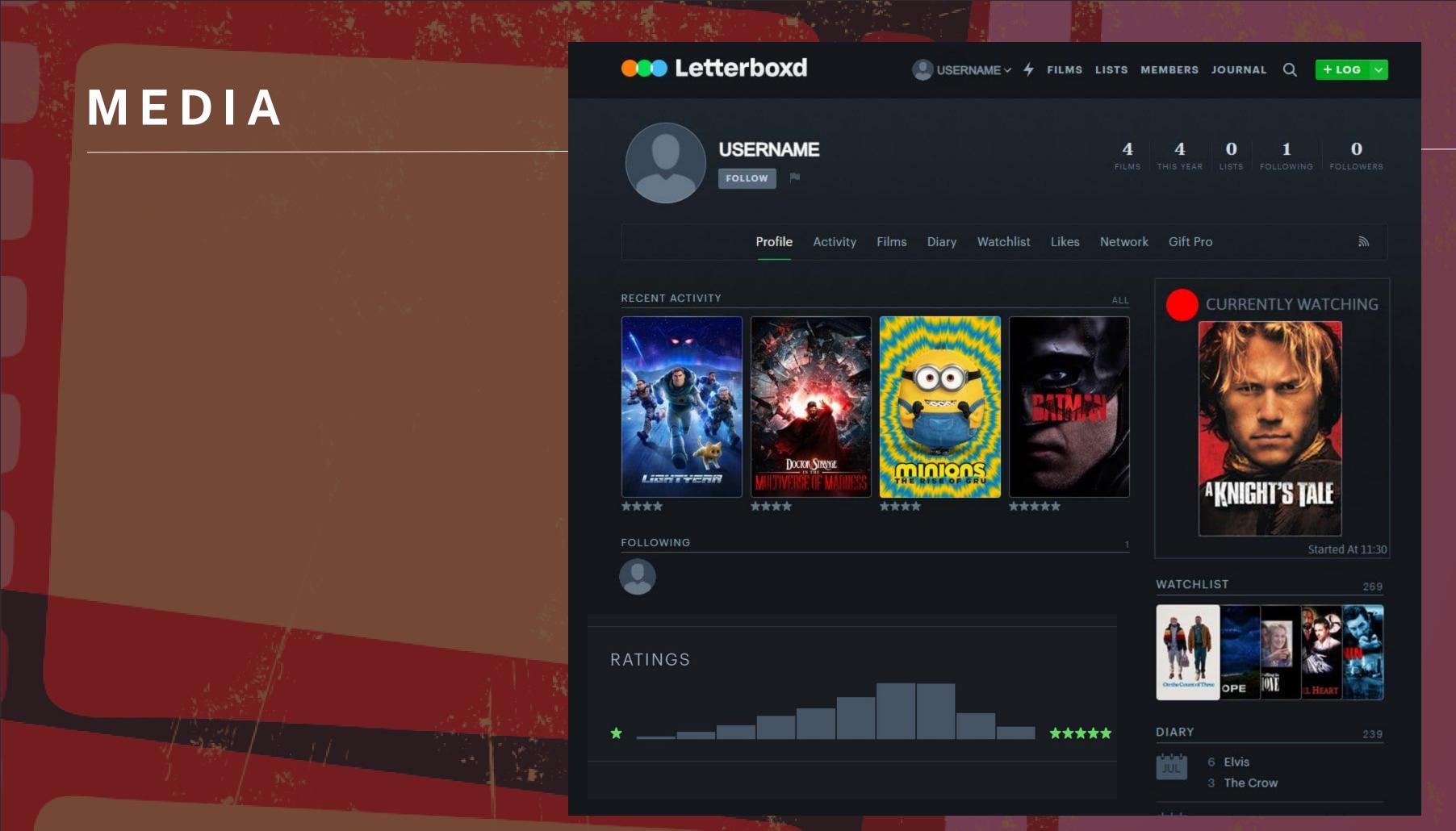
1. Preparation

2. Collection

3. Integration

4. Reflection

5. Action



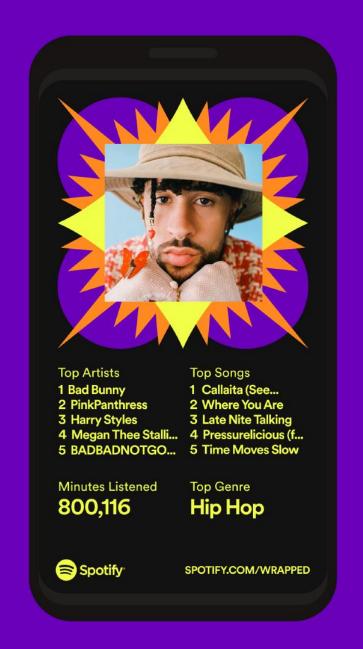
*Disclaimer: Not my Letterboxd account

MEDIA



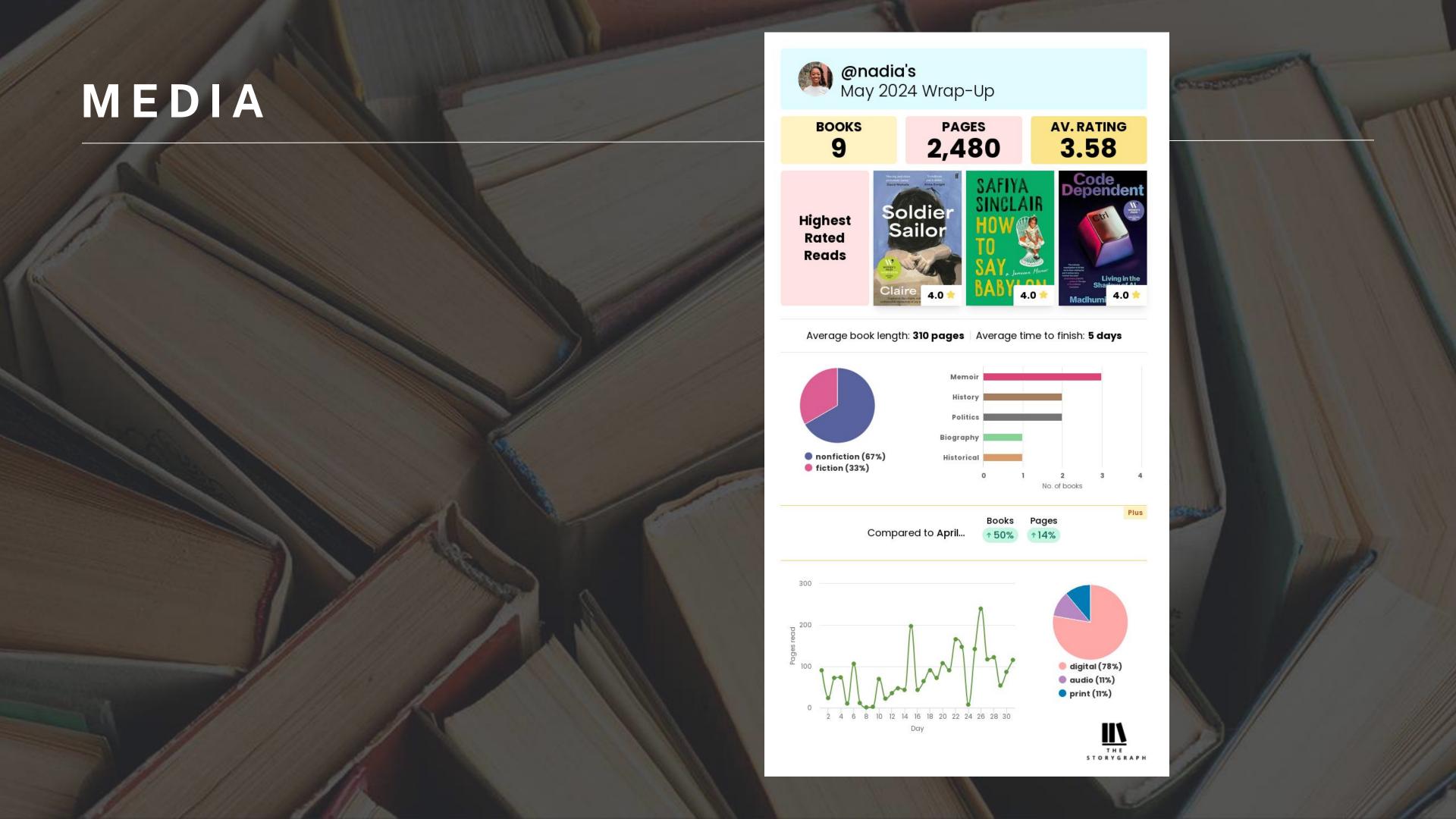








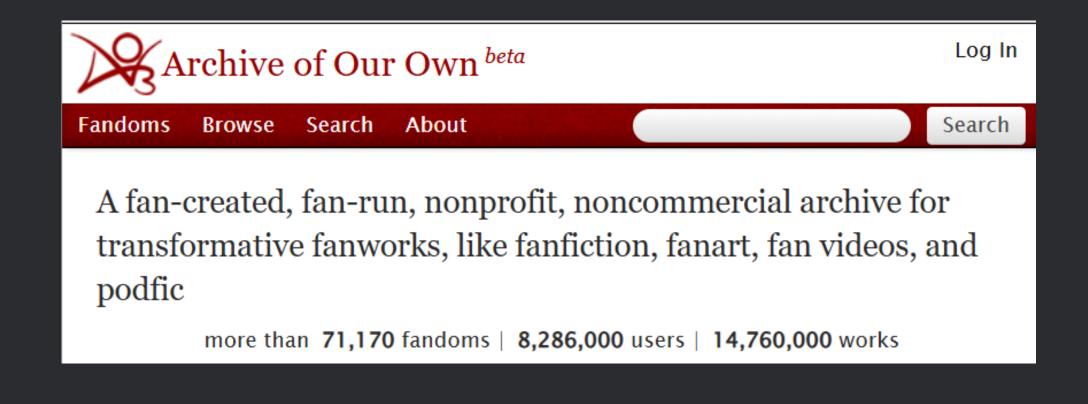
#SPOTIFYWRAPPED



MEDIA

Fanfiction:

Unauthorized, fictional work created by fans and based on an existing work of fiction (e.g., books, movies, TV series, video games)



1. PREPARATION

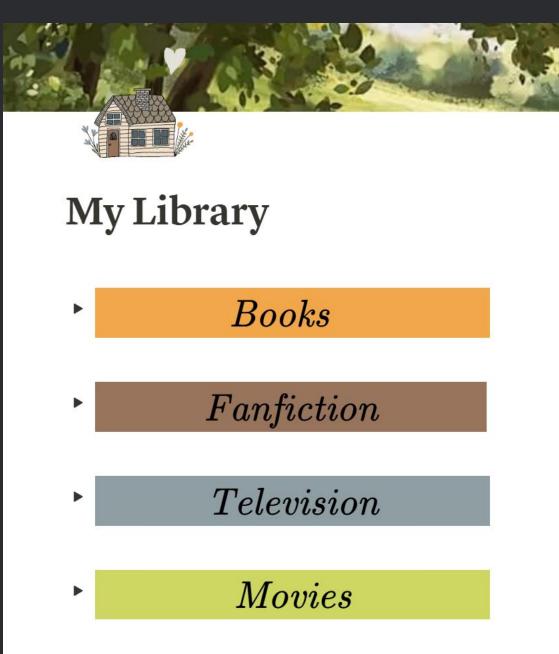
Motivations & Challenges

- Separate apps for everything
- Limitations to visualizations on apps
- Better understand habits, preferences, and sense of accomplishment
- Automation difficult (impossible?)

We cannot go back in time to stop data collection that already occurred, or remove AO3's content from existing datasets, as much as we may dislike that it happened. All we can do is attempt to reduce such collection in the future. The Archive's development team will continue to be on the lookout for individual scrapers collecting AO3 data, and to take action as needed.

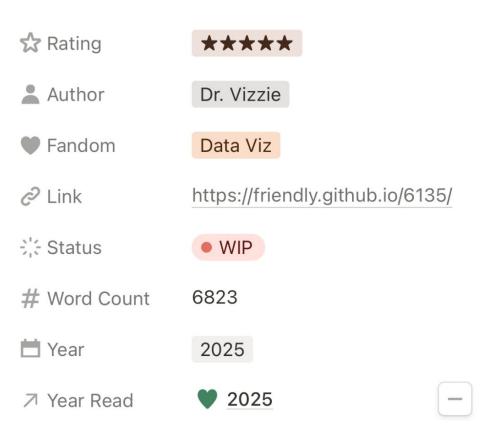
2. COLLECTION

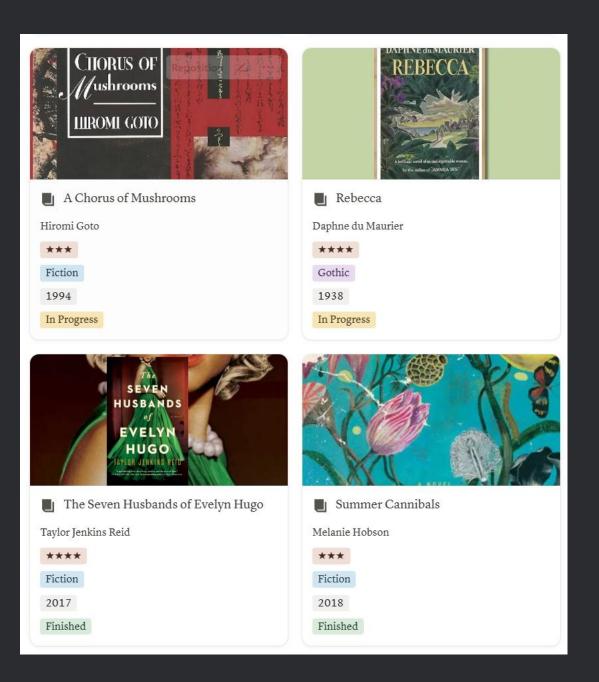
My tracker that I started keeping after starting this course!



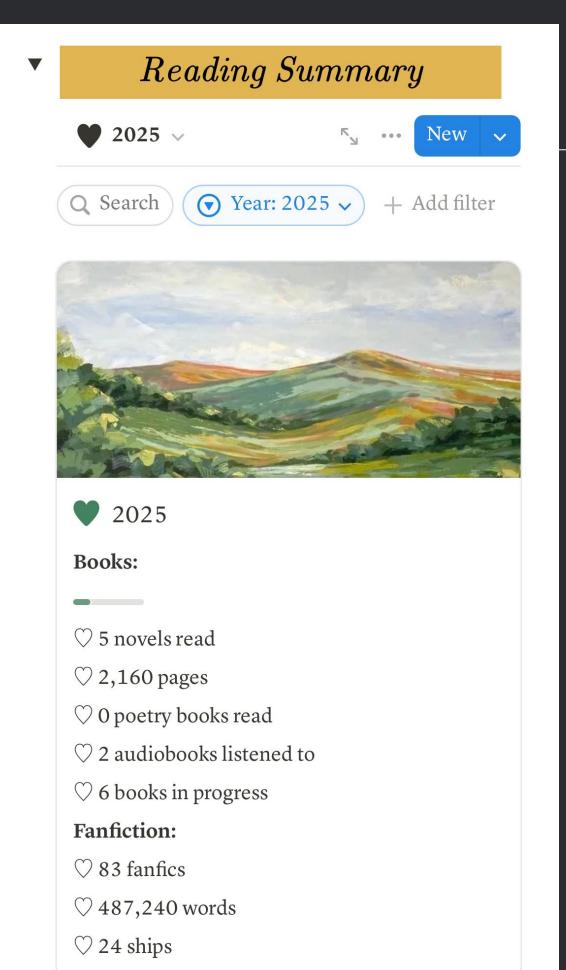


Harry Potter and the Data Visualization Course









nrow(dat)

sum(dat\$Word.Count)

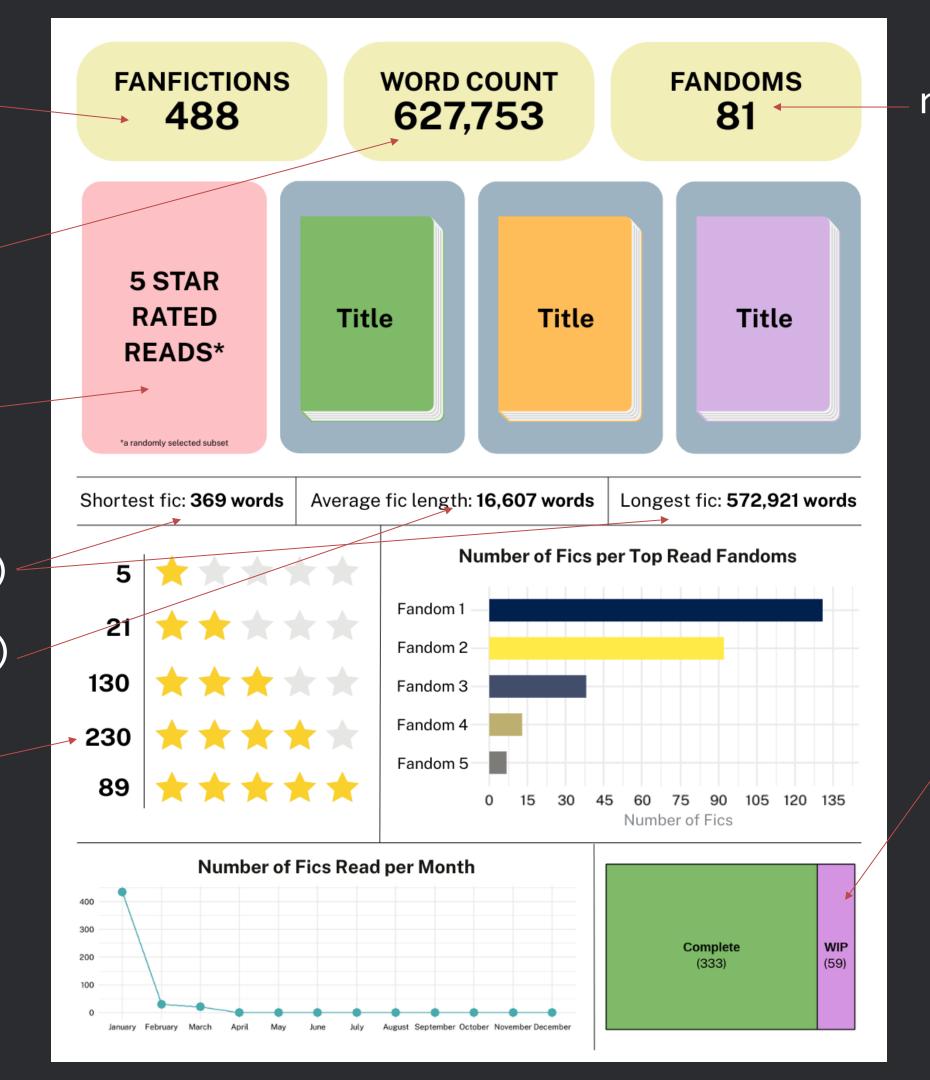
```
random_titles <- dat %>%
filter(Rating == 5) %>%
sample_n(5)
```

random titles\$Title

range(dat\$Word.Count)

mean(dat\$Word.Count)

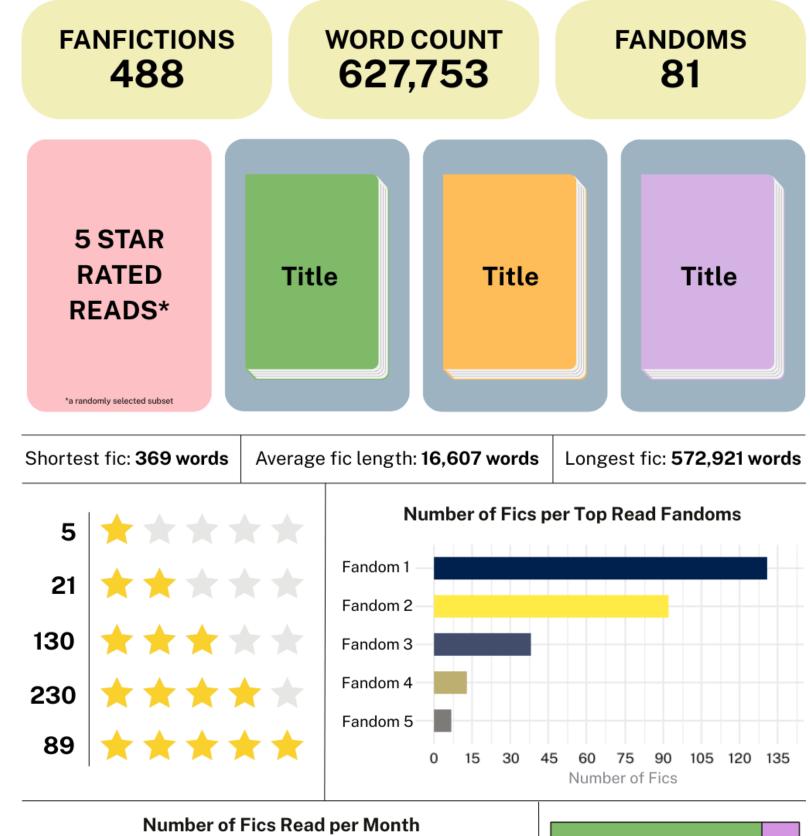
table(dat\$Rating)



n distinct(dat\$Fandom)

```
statusdat<- dat %>%
filter(!is.na(Status)
group_by(Status) %>%
summarise(Count = n())

treemap(statusdat,
index = c("Status"),
vSize = "Count",
vColor = "Status",
fontsize.labels =
c(25,25),
draw = TRUE)
```



```
Fandom 5

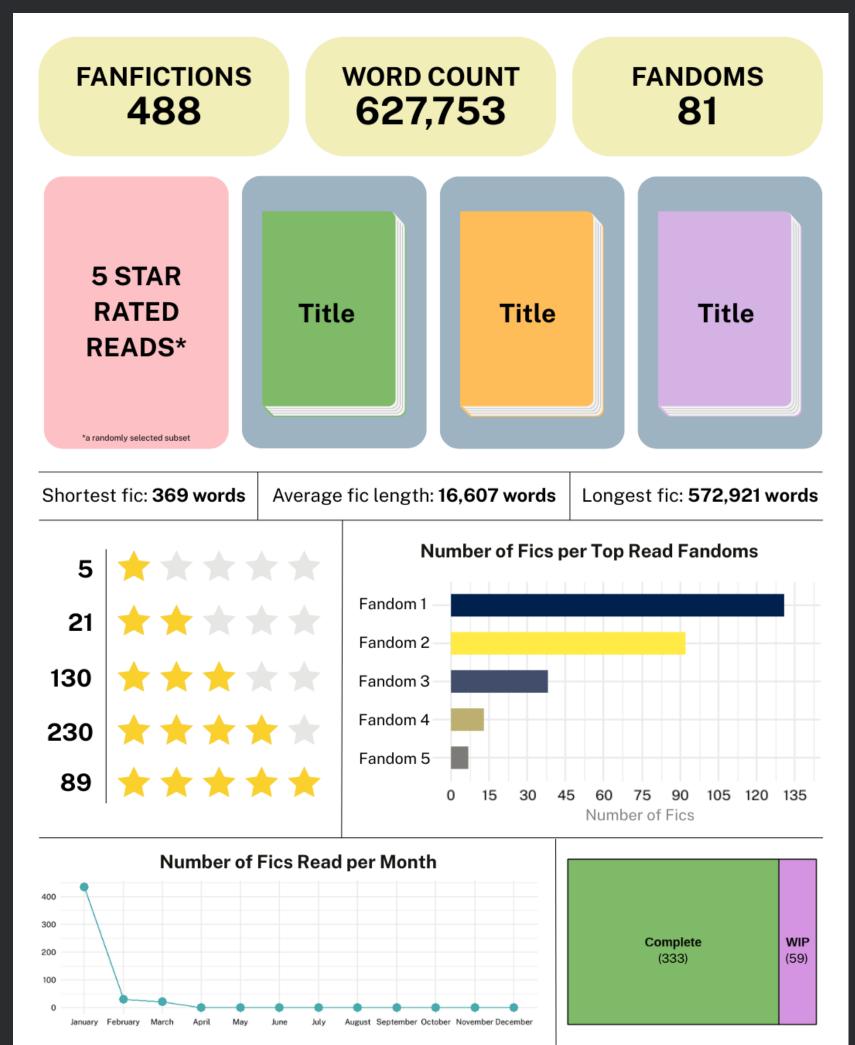
O 15 30 45 60 75 90 105 120 135

Number of Fics Read per Month

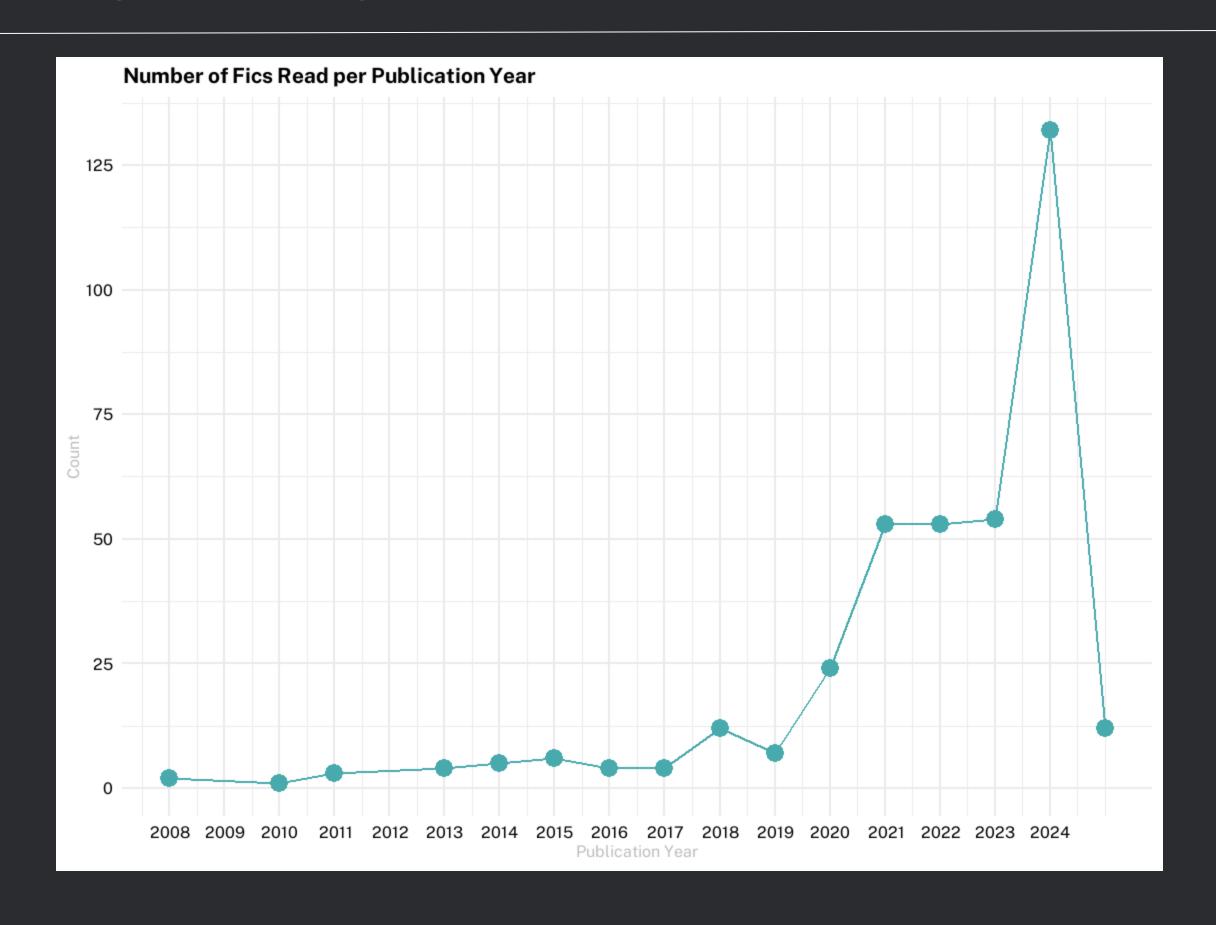
Complete (333)

WIP (59)
```

```
top fandoms <- dat %>%
filter(Fandom != "" & !is.na(Fandom)) %>%
count(Fandom, sort = TRUE) %>%
top_n(5, n)
library(viridis)
ggplot(top_fandoms, aes(x = reorder(Fandom, n), y = n, fill =
as.factor(Fandom))) +
geom bar(stat = "identity", width = 0.6) +
scale_fill_viridis_d(option = "cividis") +
(title = "", x = "", y = "Number of Fics") +
theme minimal() +
coord flip() +
scale y continuous(limits = c(0, 140),
breaks = seq(0, 140, by = 15)) +
theme(
plot.title = element_text(family = "public_sans", size = 16, face =
"bold", color = "black"),
axis.title = element_text(family = "public_sans", size = 12, face =
"plain", color = "gray"),
axis.text = element text(family = "public sans", size = 12, color =
"black"),
legend.position = "none"
```

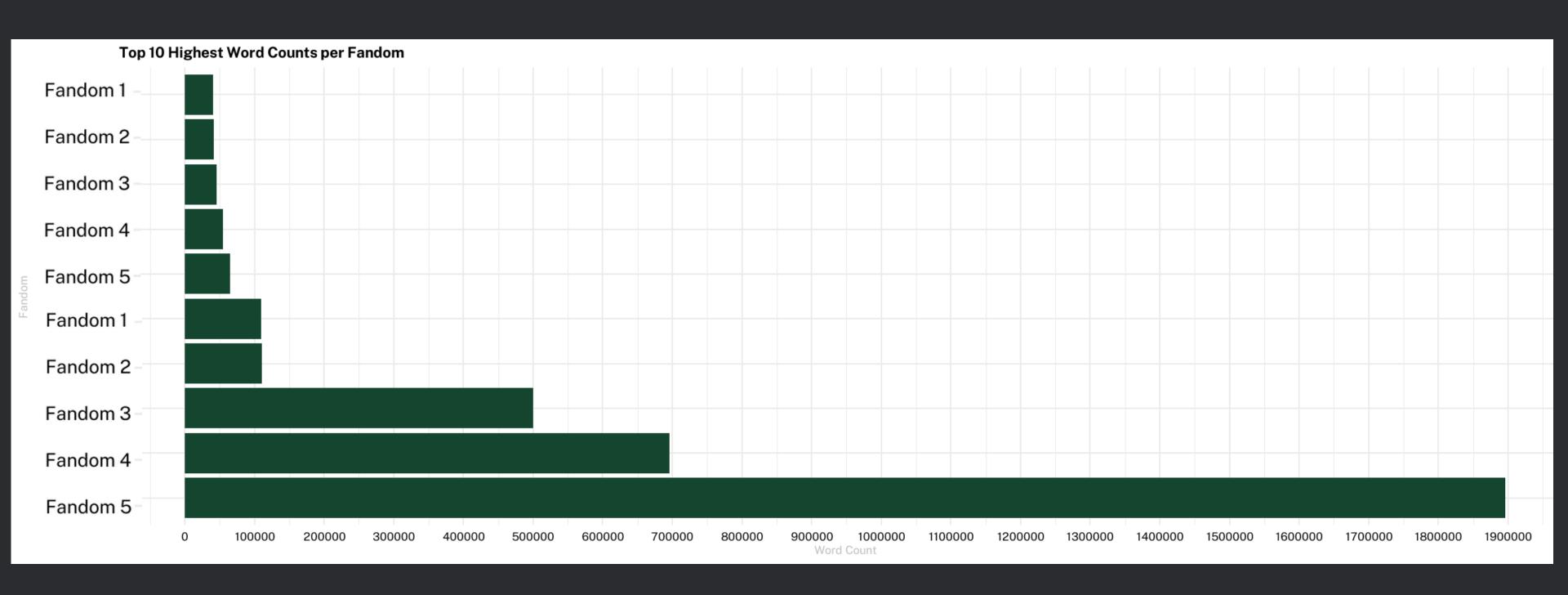


```
#count fics per month
monthsread <- dat %>%
filter(!is.na(Read.Date) & Read.Date != "") %>%
group_by(Read.Date) %>%
summarise(Count = n())
#add all months of the year
all months <- data.frame(Read.Date = month.name)</pre>
monthsread full <- all months %>%
left join(monthsread, by = "Read.Date") %>%
mutate(Count = ifelse(is.na(Count), 0, Count))
#factor months
monthsread full$Read.Date <- factor(monthsread full$Read.Date, levels =</pre>
c("January", "February", "March", "April", "May", "June", "July",
"August", "September", "October", "November", "December"))
#plot
ggplot(monthsread full, aes(x = Read.Date, y = Count)) +
geom line(aes(group = 1), color = "#48AAAD") +
geom point(color = "#48AAAD", size = 4) +
labs(title = "", x = "", y = "") +
theme(
plot.title = element_text(family = "public_sans", size = 16, face =
"bold", color = "black"),
axis.title = element text(family = "public sans", size = 12, face =
"plain", color = "gray"),
axis.text = element text(family = "public sans", size = 12, color =
"black"),
legend.position = "none"
```



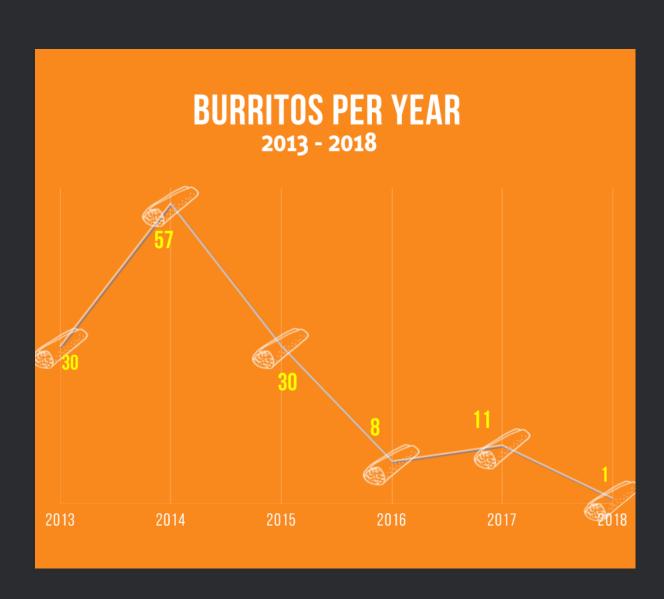
Treemap representing the proportion of each fandom read across total fics

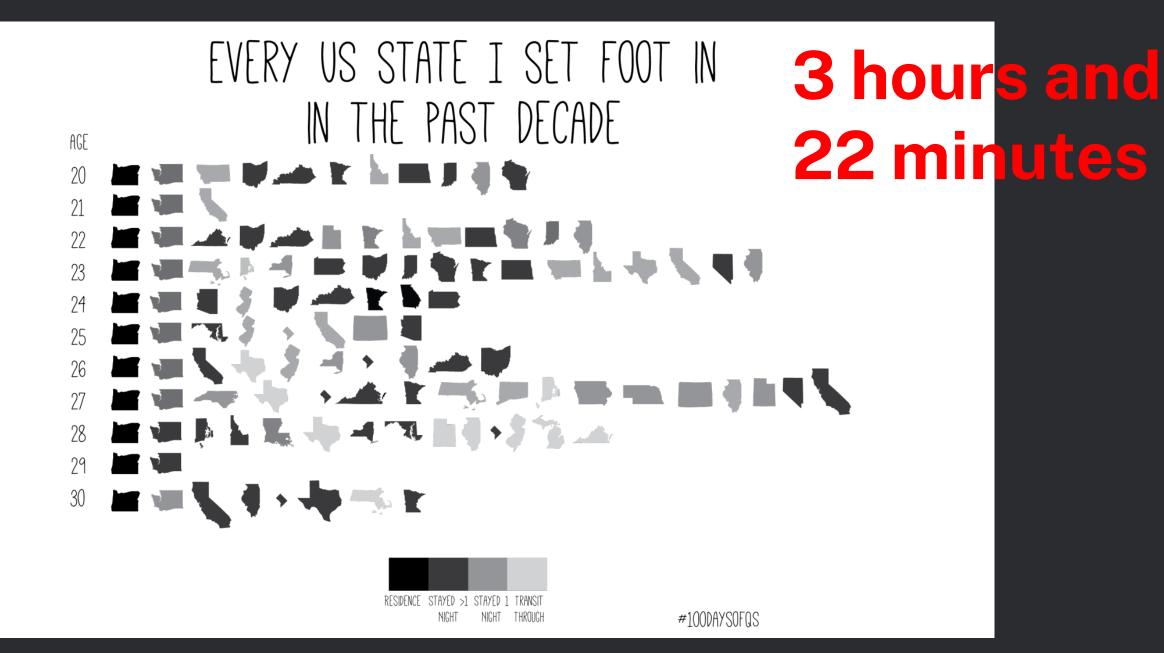




4. REFLECTION & 5. ACTION

Time-consuming and labour-intensive (but fun!) \rightarrow Larger critique of quantifying the self





4. REFLECTION & 5. ACTION

Time-consuming and labour-intensive (but fun!) \rightarrow Larger critique of quantifying the self

Action? → I should probably read more books

Data visualization made accessible

KEATING MEMORIAL SELF RESEARCH GROUP

Would you like to get help with your self-research project from an active, experienced group of peers? You're invited to join the **Keating Memorial Self Research** group, in which we share and discuss our self-research projects and support each other in our efforts. We were inspired by Steven's pioneering self-research to try to make it easier for everybody to learn about themselves using their own capacity for empirical observation.

This is an opportunity to try self-research for the first time – or to pursue a project you already have – by doing it with a small group of people who have diverse skills, lots of experience, and a desire to support you. The chat is organized in partnership with our longtime collaborators at Open Humans.

We meet every Thursday at 10am Pacific time. You can find the agenda, notes & links to the Zoom room in our continuous notes-document. We're inviting you to join these calls and share your self-research ideas, projects etc. Whether you're an experienced self-researcher or just curious to get started: You don't have to come every week and of course you don't need to present anything.

https://quantifiedself.com/blog/the-keating-memorial-self-research-group/

Thank You!

Questions?