CONCORDIA

GradProSkills

Professional development workshops and resources designed for graduate students

R-Ladies Montreal

Want to learn R?

Tuğba Öztürk

Hello!

I am Tuğba.

I am a statistical biophysicist, a workshop facilitator at GradProSkills, a member of RLadiesMTL.

You can find me at @tugbaoztrk and @tugbateaches.

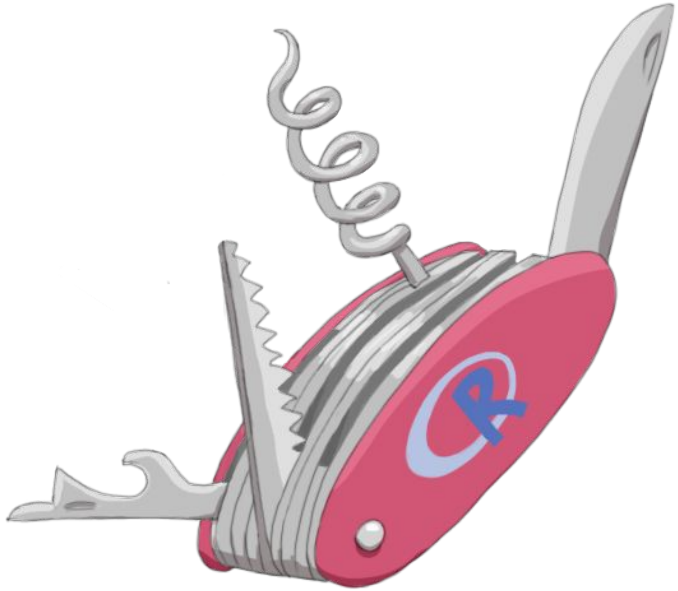
What? Why? How?

What is R?

What is R?

- **Several R packages** (shared code + documentation written for a specific task)
- **A dynamic community**

What is R?



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What? **Why?** How?

Why learn R?

for data analysis

year	month	day	dep_time	arr_time	origin	dest	air_time
2013	1	1	517	830	EWR	IAH	227
2013	1	1	533	850	LGA	IAH	227
2013	1	1	542	923	JFK	MIA	160
2013	1	1	544	1004	JFK	BQN	183

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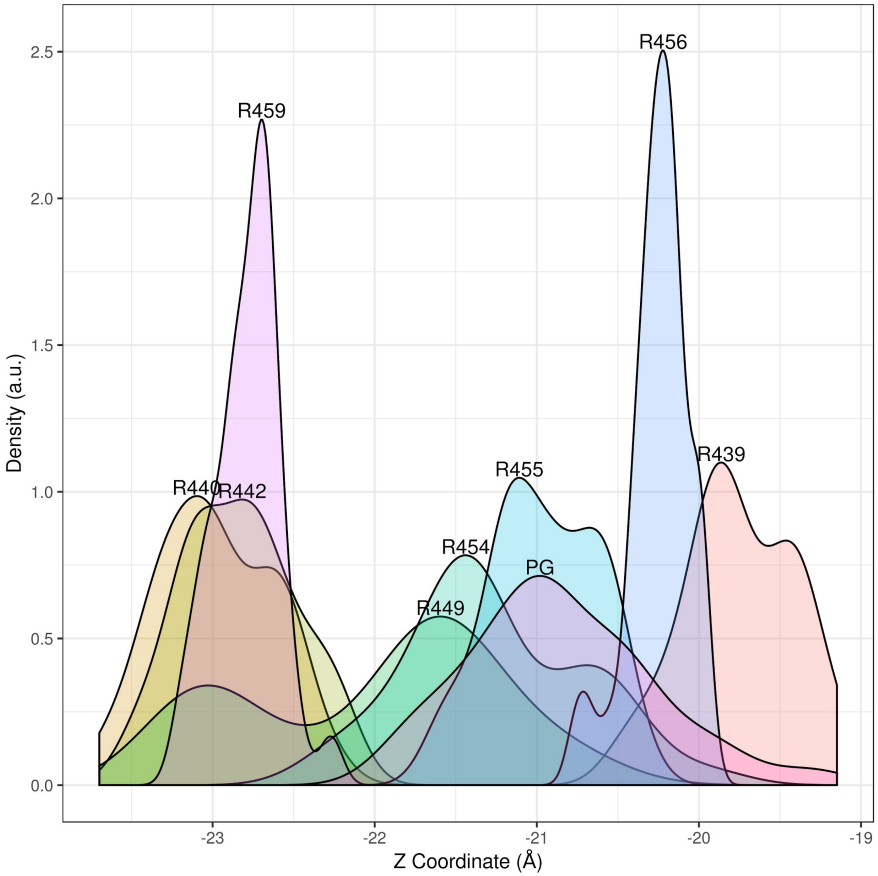
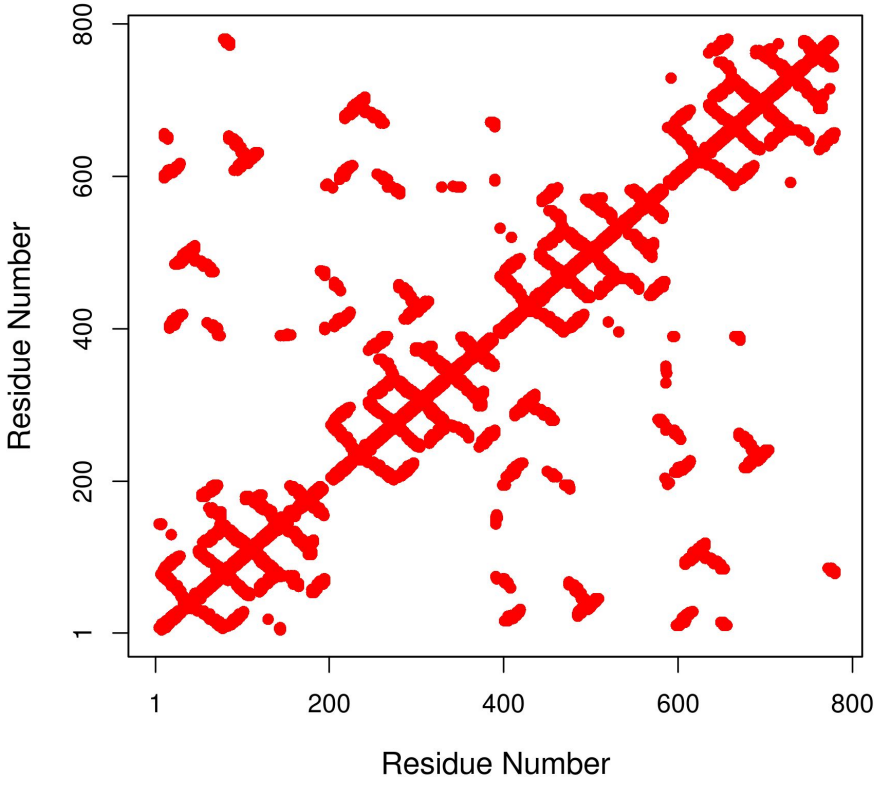
```
my_data %>% filter( origin == "JFK", dest == "FLL", month > 10 ) %>%
group_by(year) %>% summarize( average=mean(air_time) )
```

Why learn R?

for data visualization

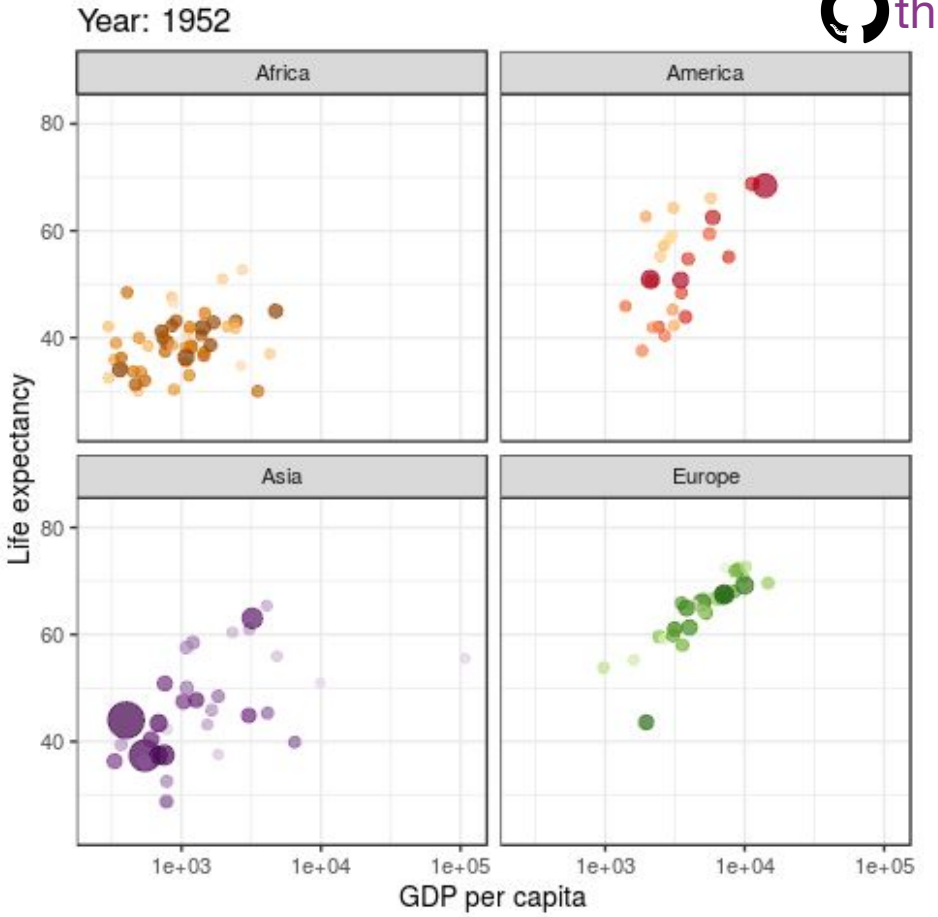




Why learn R?

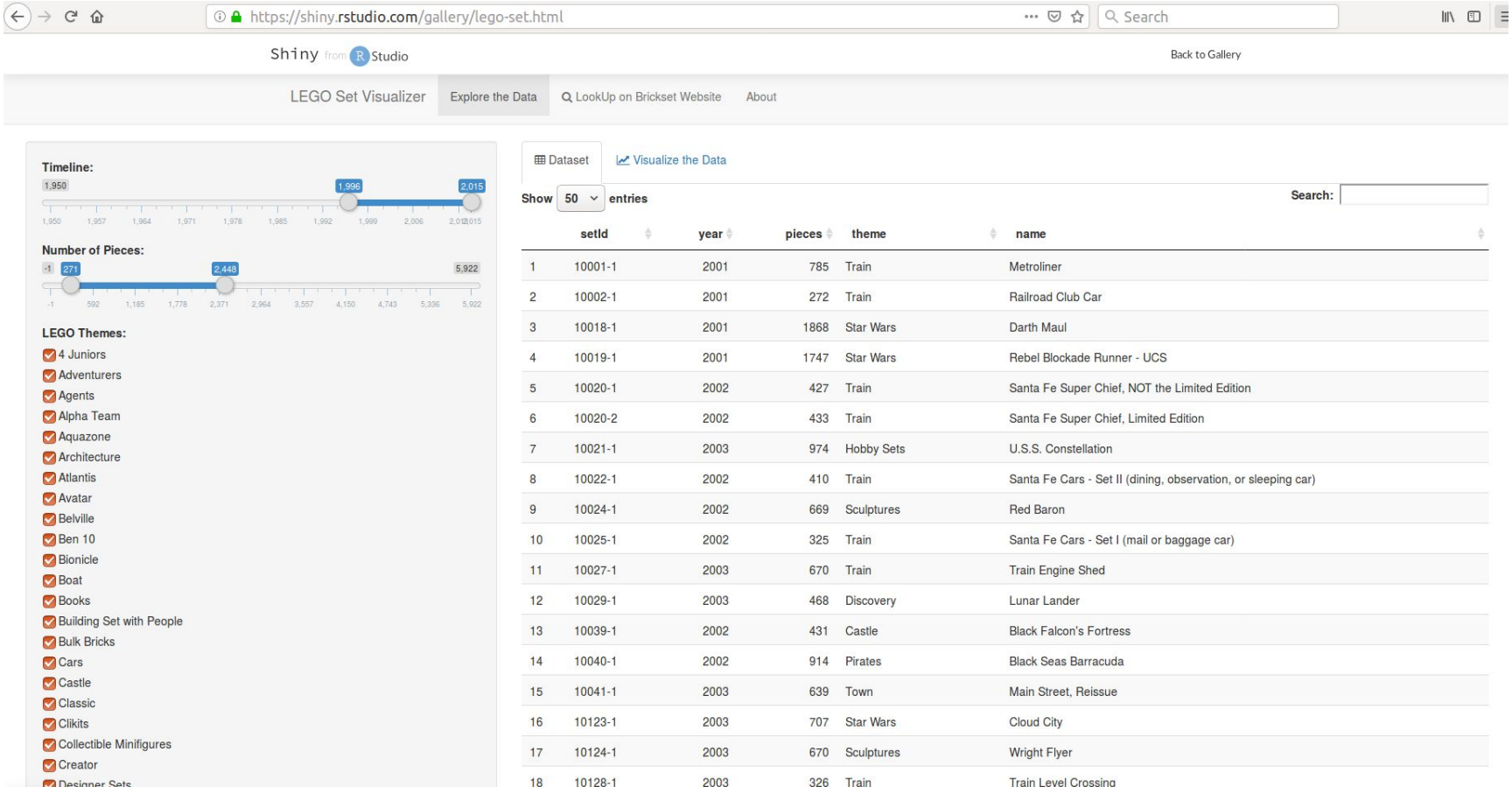
for data visualization

thomasp85/gganimate



Why learn R? *for web applications/dashboards*

https://shiny.rstudio.com/gallery/lego-set.html



Why learn R?

for making personal websites

https://tugbateaches.github.io

Hello,

I'm a PhD candidate in Physics at Concordia University. I work on molecular modelling of membrane proteins – yes, I am one of those physicists who are supposed to show you a movie of a protein jiggling in the middle of their talk. I love computational biochemistry/biophysics, coding (especially with R and Python!), teaching & learning and talking about any of these topics!

I graduated from the Koc University with a MS in Computational Sciences and Engineering in 2014. Same year, I started my PhD in Physics at Concordia University, where I am working on molecular modelling of ion channels and trasporters under the supervision of Dr. Guillaume Lamoureux at Rutgers University–Camden. I expect to graduate this year.

My full CV is available here.

A quick note about my website: I have built this website using the amazing tutorial by Emily C. Zabor ❤. I like generating documents (tutorials, presentations, websites) with R. I also like the fact that there is an R package called tinytex – I think it's cute.

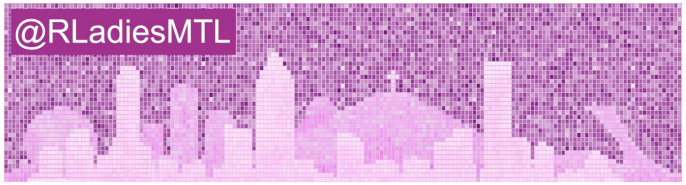
Why learn R?

for impressionist artwork

http://romainfrancois.blog.free.fr/index.php?post/2010/11/12/What-would-impressionnists-do-with-R

What? Why? **How?**

How to learn R?



1. Local resources:
   - GradProSkills workshops (GPDI 515 and GPDI 517)
   - RLadiesMTL meetups!

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2. Online resources:
   - Online courses (Coursera, EdX, DataCamp, Udemy)
   - Tutorials (Youtube, RStudio, GitHub)
   - Twitter (@hadleywickham, @jennybryan, @juliasilge, @dataandme, @RLadiesMTL)
   - Blogs (r-tutor.com, r-bloggers.com)

R for Psychology

- Learning Statistics with R
- Course notes for Psychology Statistics
- R-bloggers' suggestions for researchers in psychology (including lecture notes, mailing lists, online books and workshops)
- Popular websites:
    - https://rpsychologist.com
    - https://personality-project.org/r

Any questions?

You can find my slides  @tugbateaches/whyR

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http://neuroplausible.com/programming