

How do people spend their days?

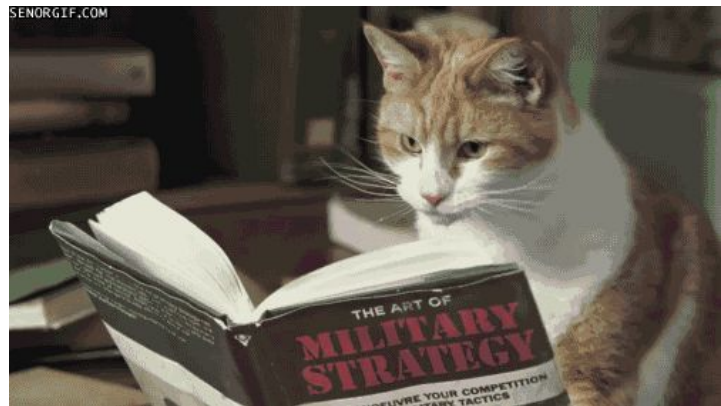
A data viz journey

Elvyna Tunggawan

R-Ladies Auckland, August 2020

Hello!

- Master's student at The University of Auckland
- Undergraduate degree in Information Systems
- Worked as a data scientist at a tech startup
- Until 2020, I mostly used Python ...
 - Got more exposure to R recently

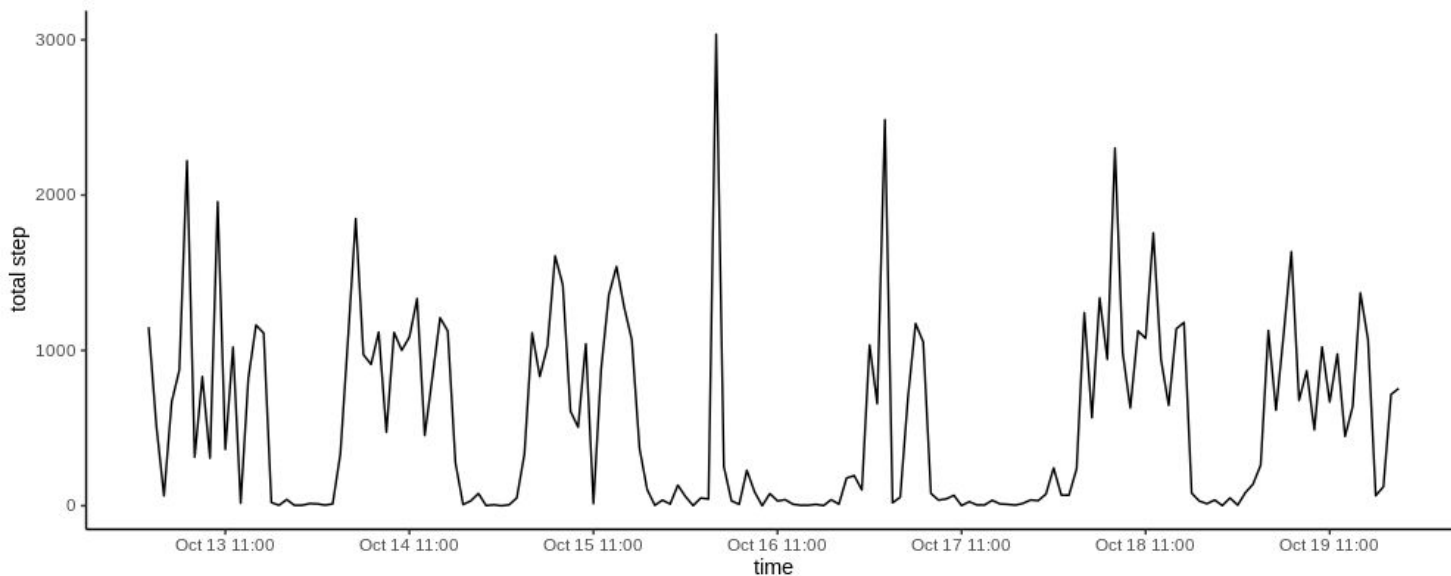


Activity data \Rightarrow wearable device



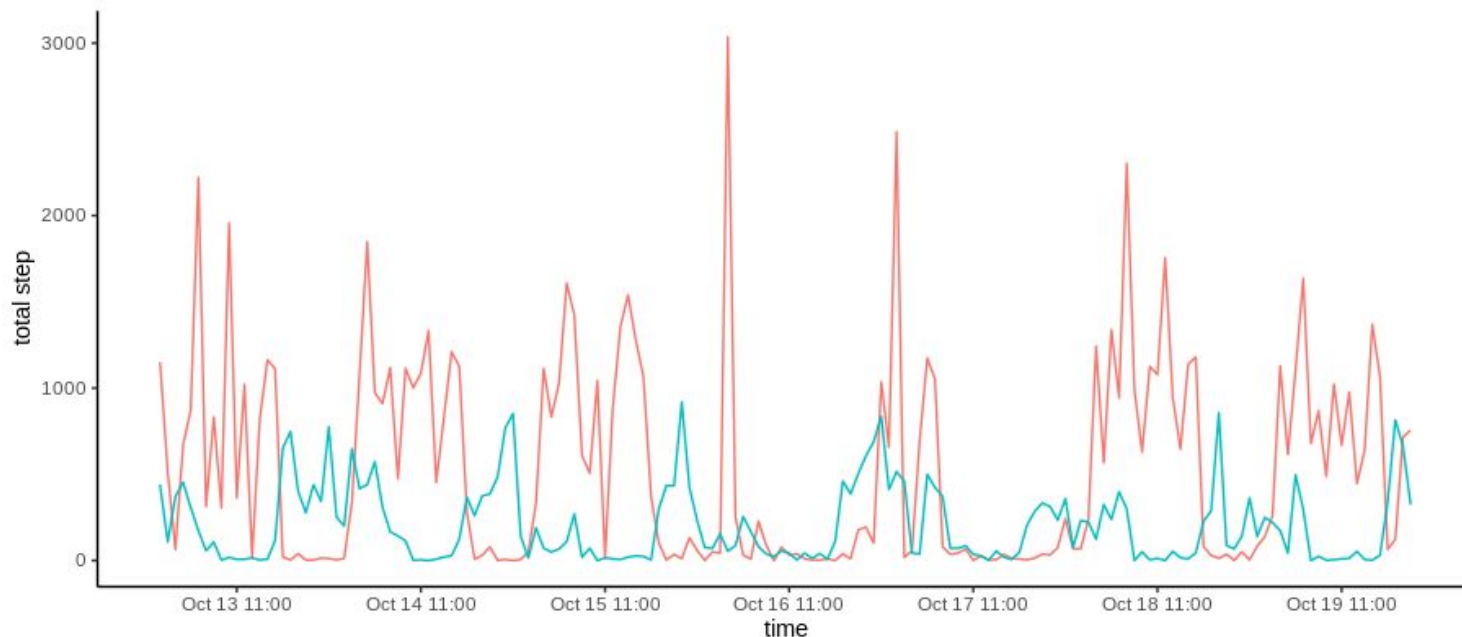
Image source: [Shutterstock](#)

Time series data? Easy-peasy!



What if there are more people?

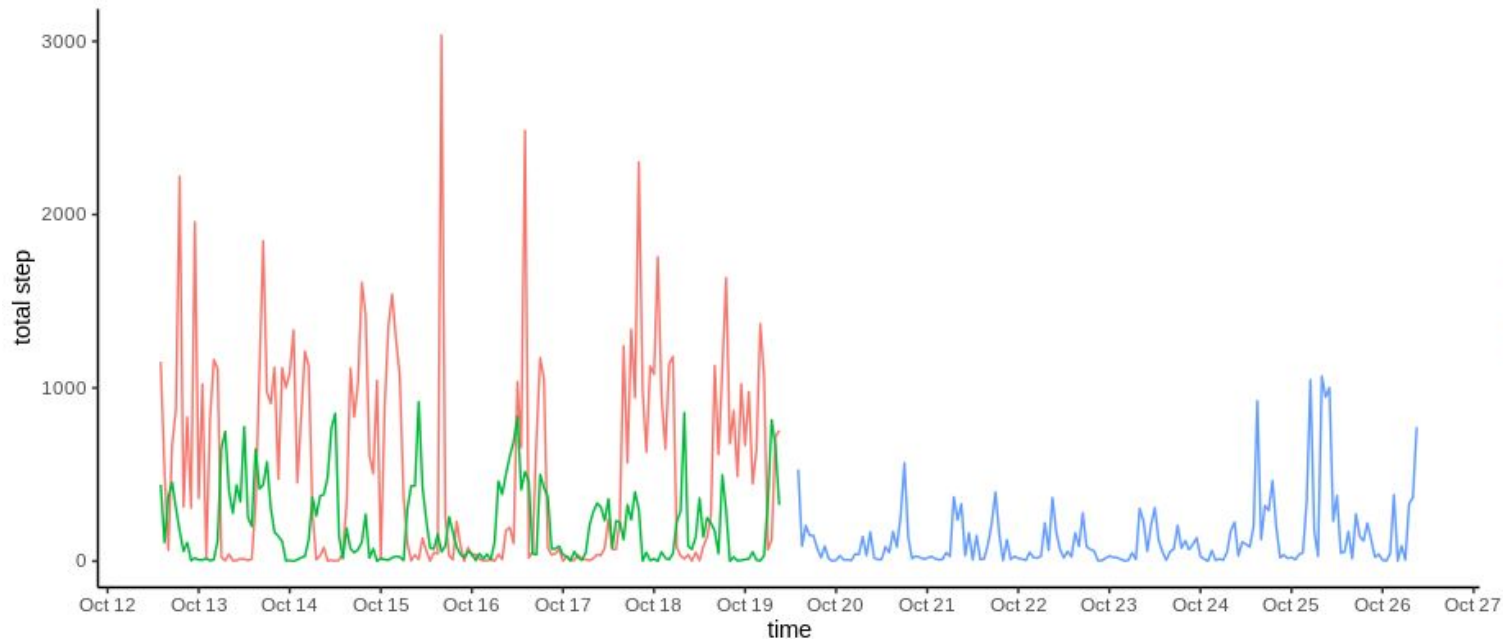
Time series data? Easy-peasy!



What if there are more people?

What if the dates are different?

Time series data? Easy-peasy!

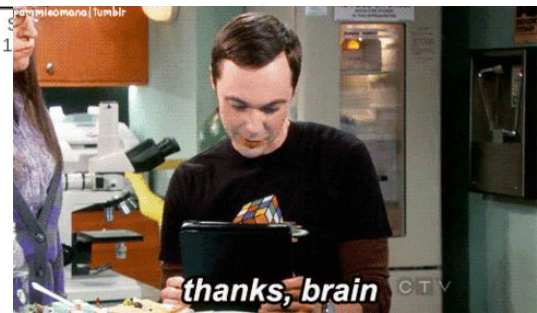
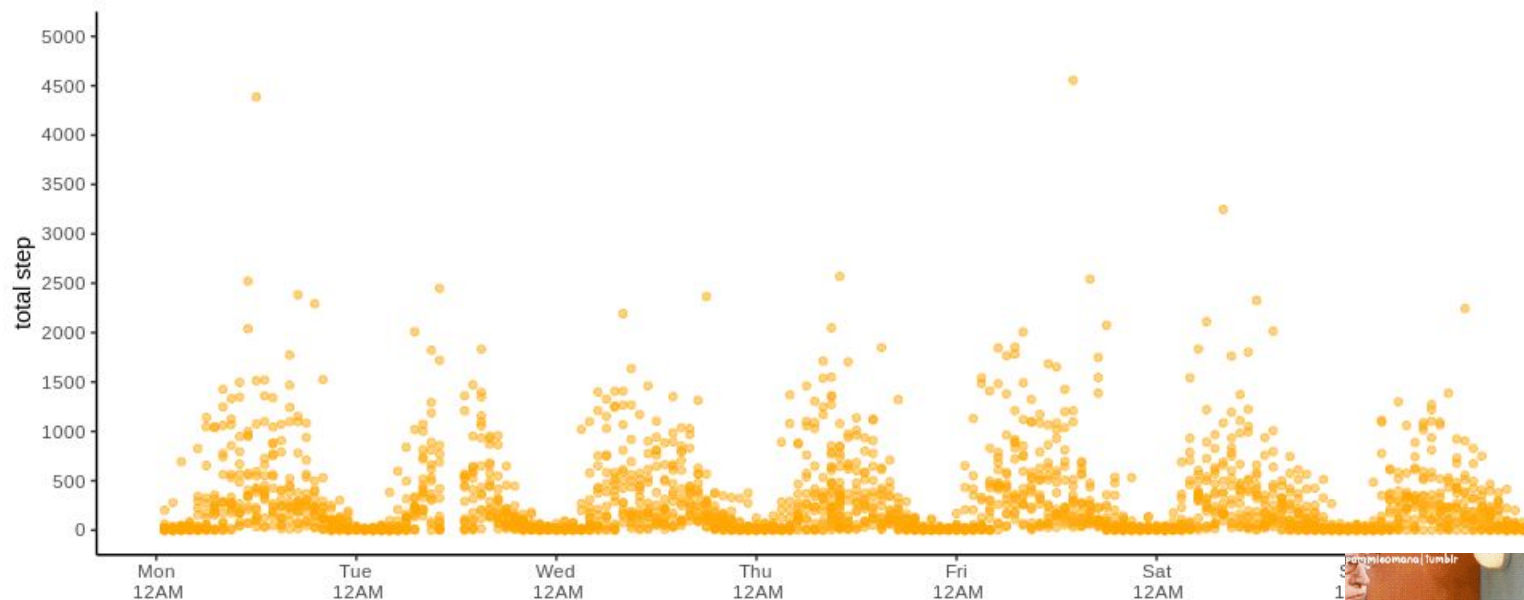


What if there are more people?

What if the dates are different?

What should we do?

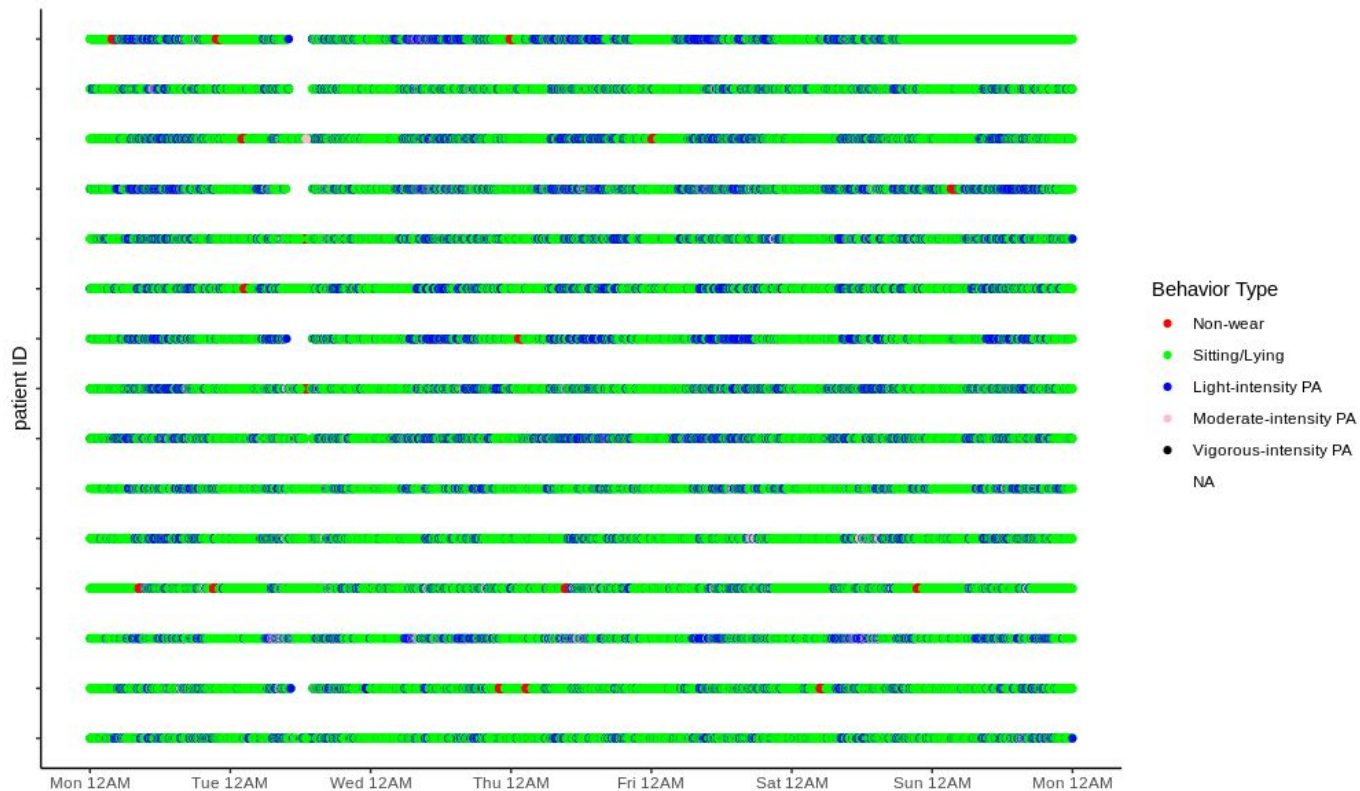
There must be a better way...



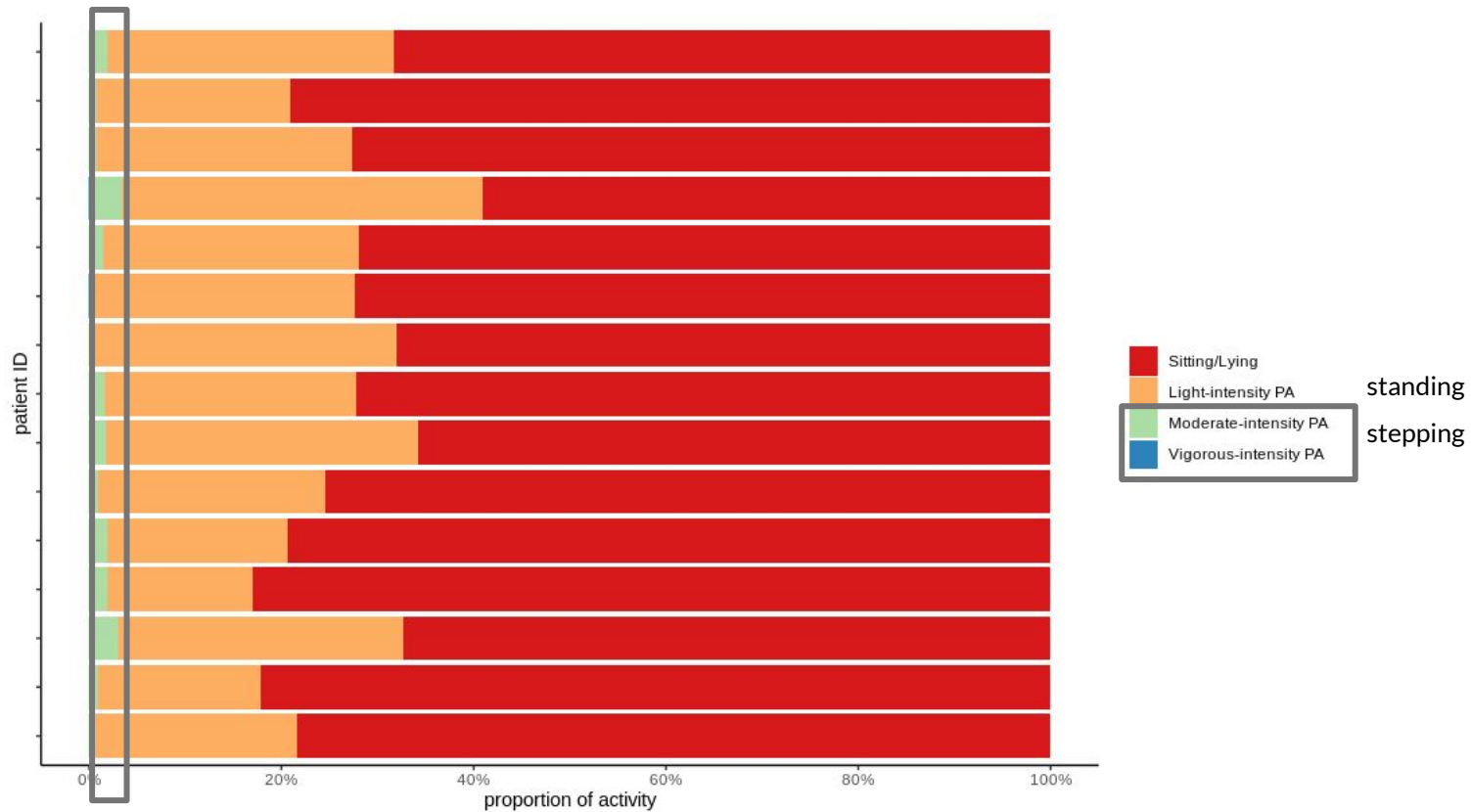
Not only step count!



Image source: HealingExercise.org



Activity sequences per minute



Overall proportion of activity per person

Activities as a composition



+

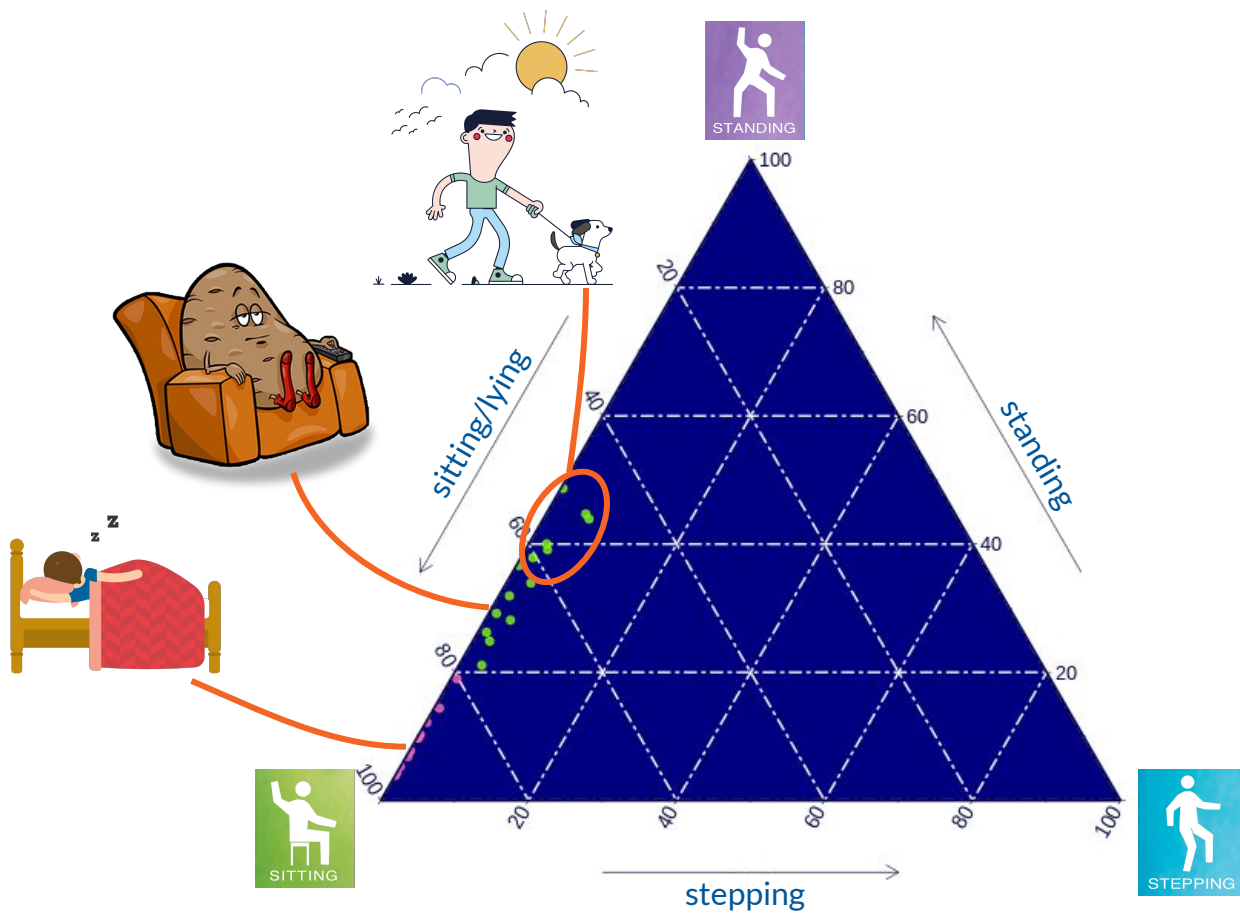


+



=

24
hours



What have we learned?

Thanks!



@vexenta



linkedin.com/in/elvyna



speakerdeck.com/elvyna



Don't forget to exercise!