Introduction to Robotics
Course no. 0

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Today's agenda

- Get to know each other
  - About us
  - About the course
- InnovationLabs, IdeaJam, SCSS, funding & incubators
- Arduino - what is it?
- Reasons to not take this course - *cough* covid * cough*
- Reasons to do it
- Some books

About us

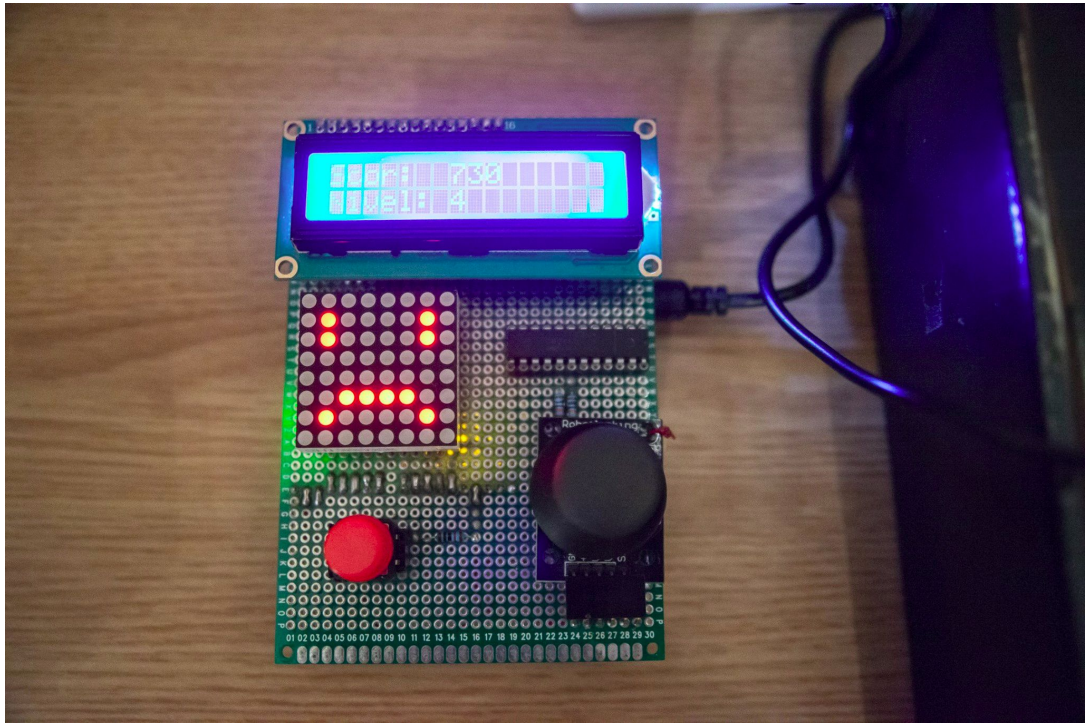
- Details about the team
- 3 Laboratories:
  - 315 - Introduction to Robotics
  - 329 - 3D Printing
  - 314 - Autonomous Systems (in progress)
- Social media:
  - Youtube: https://www.youtube.com/c/UnibucRobotics
  - FB: fb.com/unibucrobotics
  - Insta: insta.com/unibucrobotics

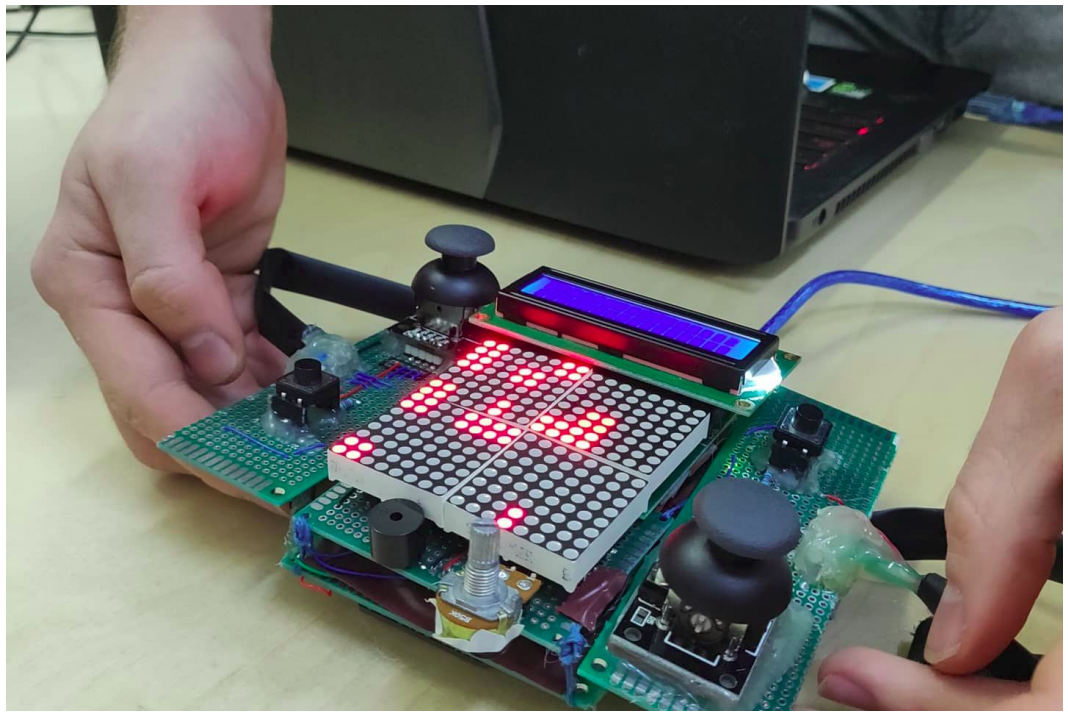
About the course: details

- In-person laboratories (no exceptions - mandatory presence)
- Online or in-person course, TBD (but mandatory webcam)
- Hands on projects
- Focus on actually delivering the projects - coding style, finishing touches etc

About the course: details

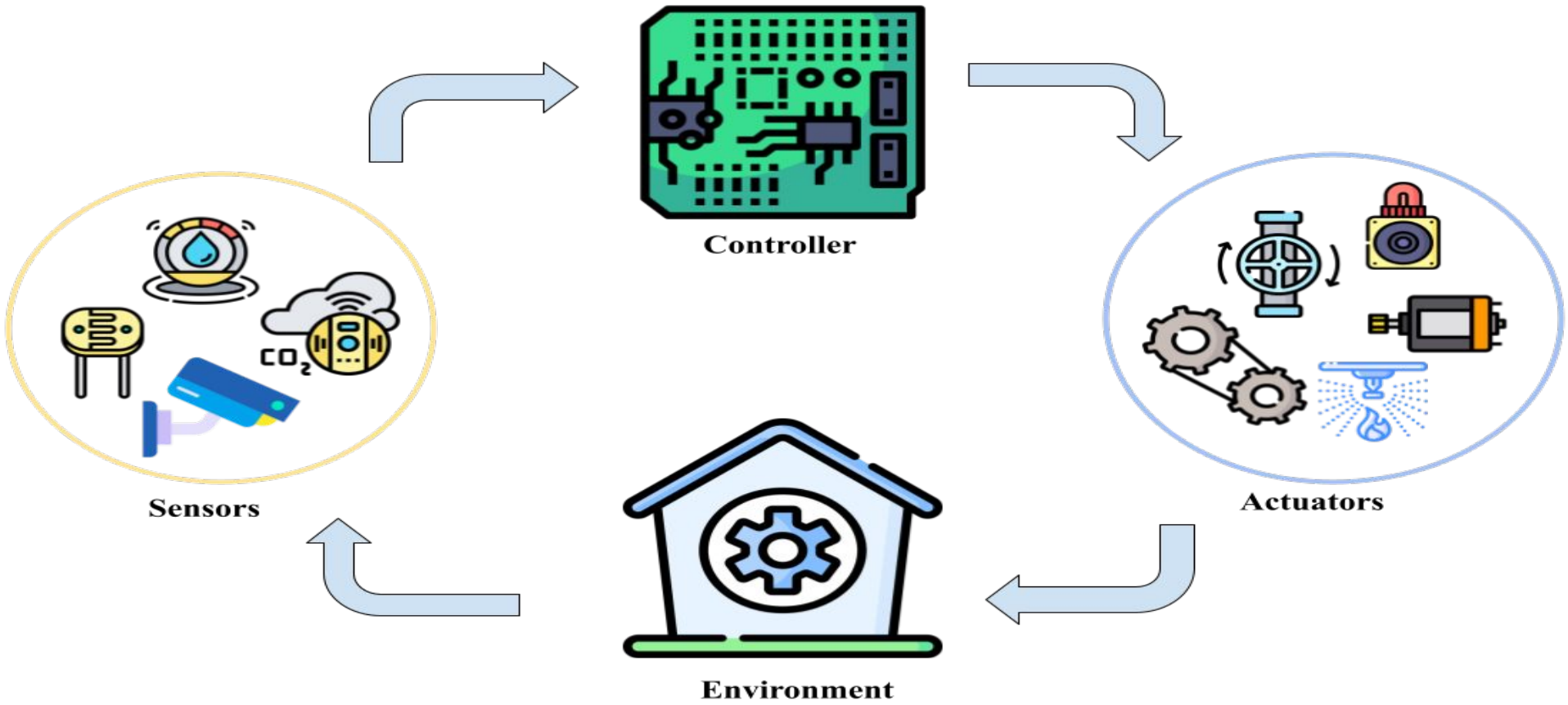
- Attendance:
  - Laboratories: you're allowed for maximum 2 non-crucial absences, but those labs must be re-took (or strong evidence of individual completion)
  - Course: 50% + 1
- Grading:
  - 1p laboratory activity
  - 3p weekly homeworks
  - 3p project 1: matrix game (snake, tetris etc)
  - 3p project 2: line follower
  - 1p: bonus activities
  - Total: 11p





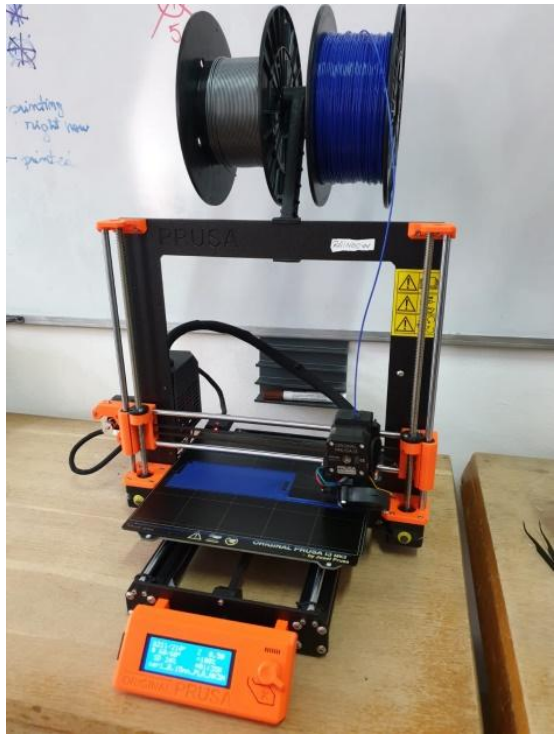
Sense. Analyse. Act.

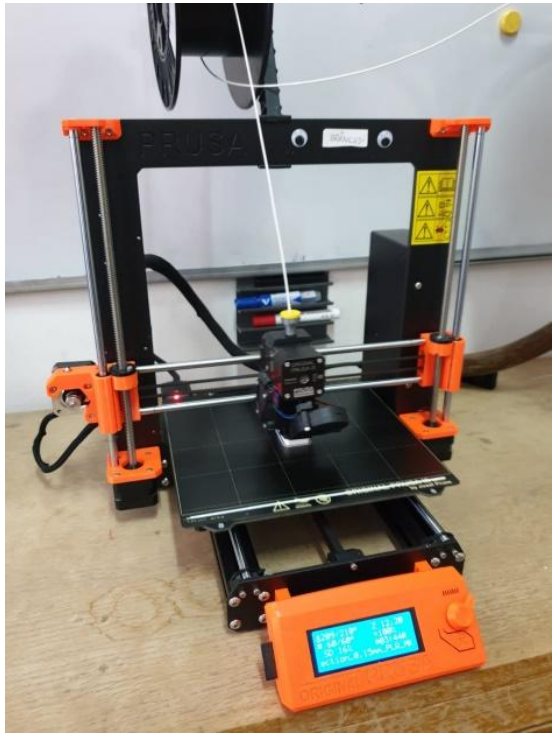
Sense. Analyse. Act.



Equipment / Meet the printers

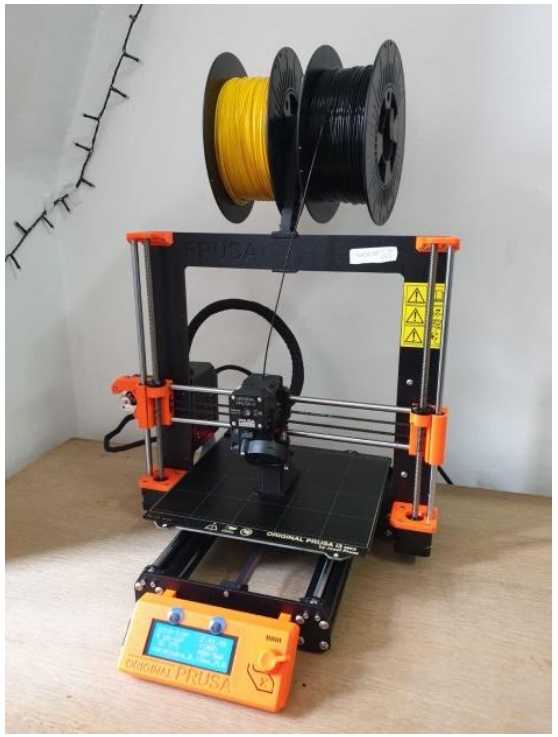
Rainbow





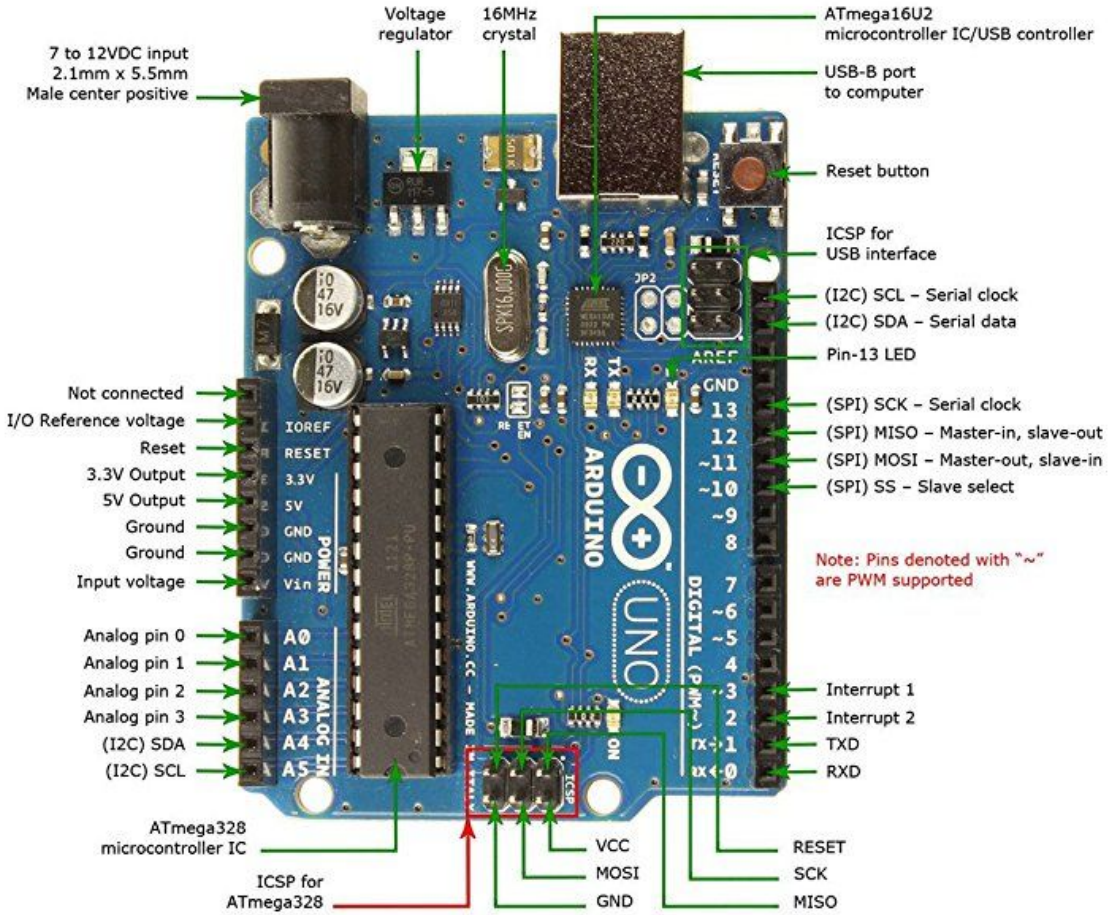
Brâncuși

Purrsa (i3 MK3)

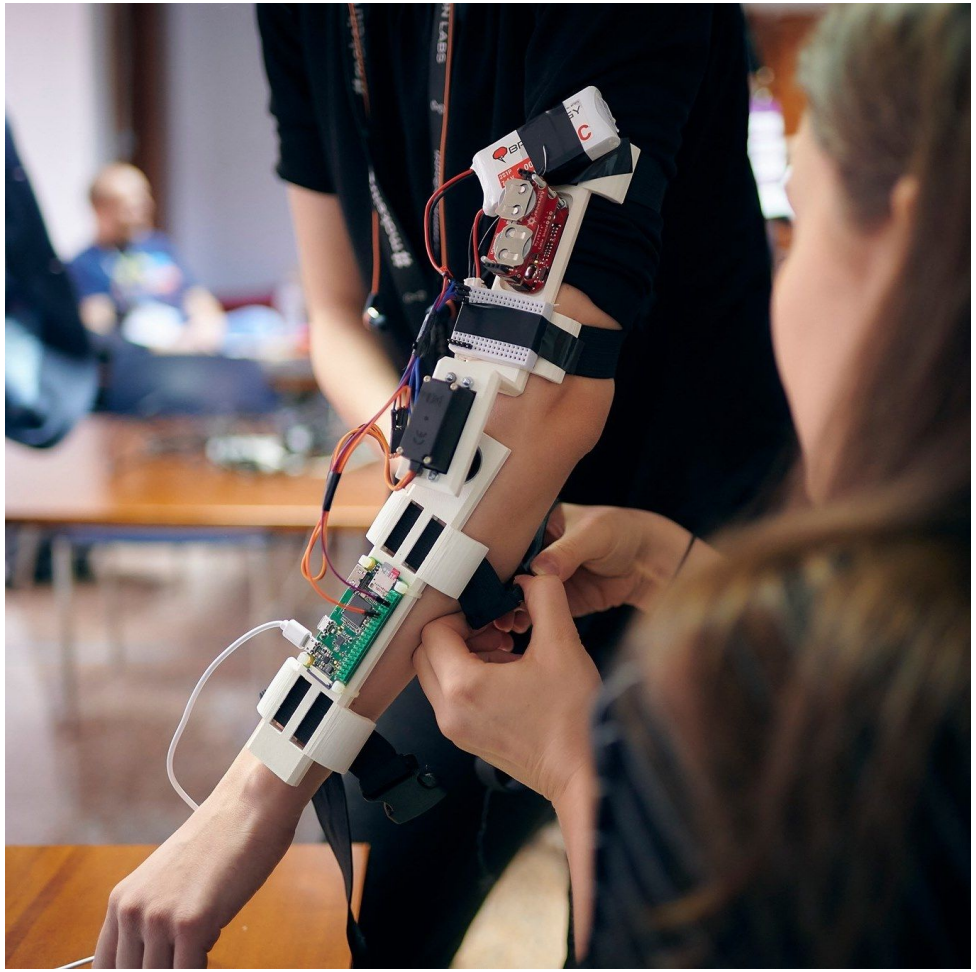


Zotrax M300 Plus

Arduino Uno board

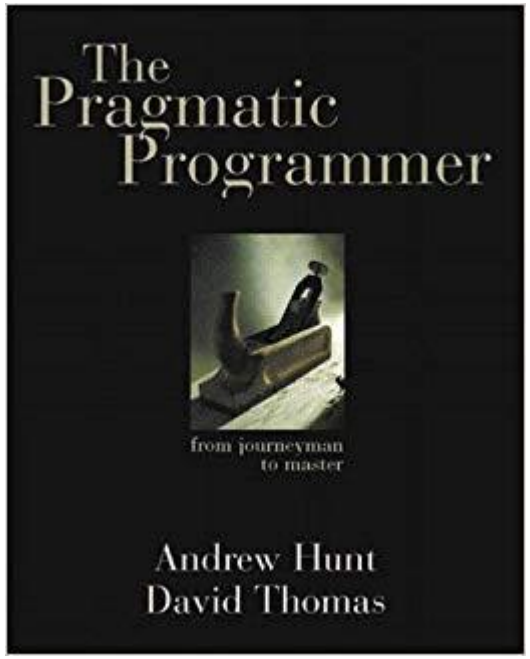


InnovationLabs & IdeaJam



Some books

- The pragmatic programmer



The bible of programming.
Read this and you'll be a better programmer than most of your colleagues.

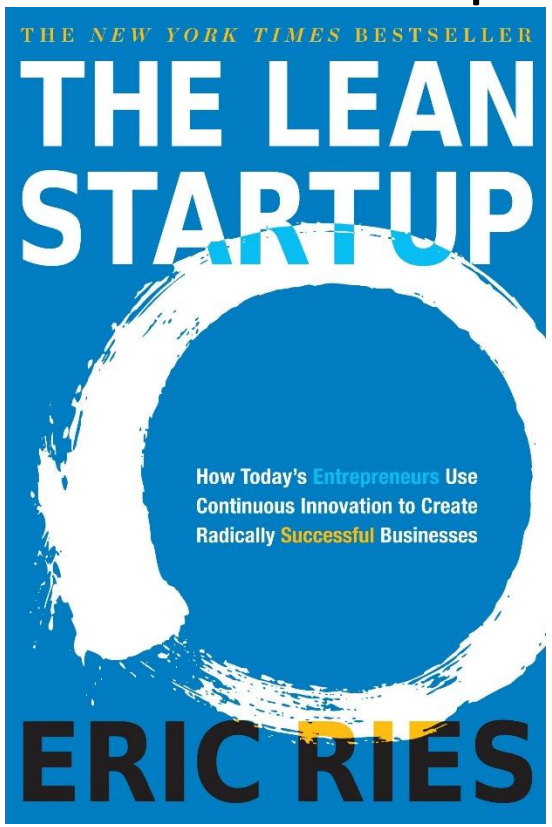
Read this and you'll use good practices better than some of the managers you'll encounter.

Read this and you'll be years ahead of the learning curve for your mean level.

Its techniques are applicable in other fields as well, not only programming.

Some books

- The lean startup



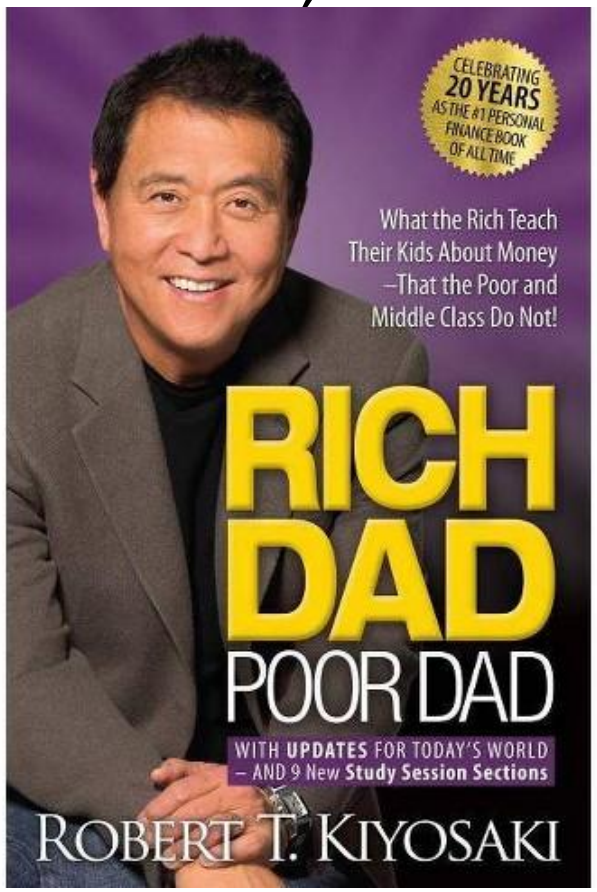
A must for anyone who wants to be part of a startup.

Useful for absolutely anyone who will work in an organization. It will help you develop the entrepreneurial mindset.

It's THE book that shaped silicon valley. Most things that work there originated from here

Some books

- Rich dad, Poor dad



The #1 book on personal finances.

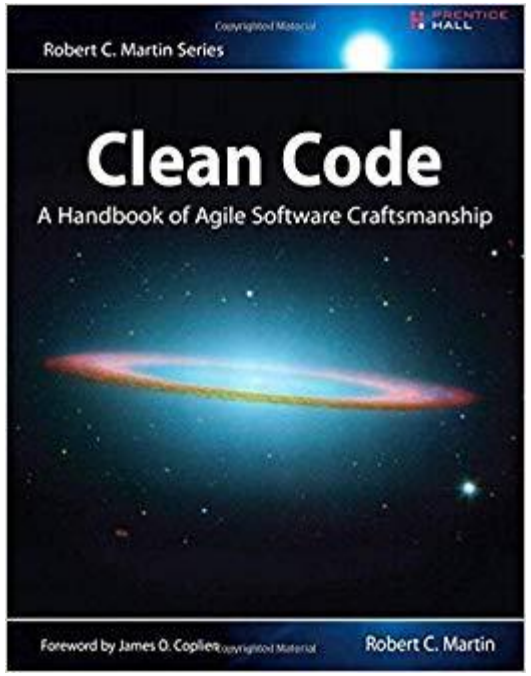
Contains controversial statements about money – some might seem harsh and with some you might not agree.

Will make you think less like an follower and more like an investor.

Excellent book on getting out of “the rat race”

Some books

- Clean code



Somewhat more technical, but excellent book on coding practices.

Reading this and The pragmatic programmer will put you way ahead most programmers, even the ones with experience.

And remember