Dr Pawel Orzechowski, Senior Teaching Fellow in Programming for Business

What I'll talk about:

- Prototyping courses (with EFI and charities)
- Collaborate 💙 interactivity
- Pair programming moving online
- Badges: Small pieces of content
- 'Slides' videos and 'Code-Along' videos



university of edinburgh Business School **Prototyping courses**



Datakirk Data Literacy Evening Class

EFI text mining bootcamp





Prototyping courses

Datakirk Data Literacy Evening Class

1 delivery 3 months long 2h class a week 20 learners





EFI text mining bootcamp

2 deliveries 3 day long 4h class a day 30 learners each delivery



Collaborate 💙 interactivity 💙 breakout rooms

It's not a bug, it's a feature: many activities would be not feasible in a physical teaching room

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- (actually) instant breakout rooms
- See who's talking in each breakout room
- Share exercise sheet into breakout room
- Very easy sharing of screens (on chrome)
- Anonymous and truly collaborative whiteboard

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steps of interactivity

- Raise Hand
- Type into whiteboard
- **Interact with Whiteboard**
- Write/Speak
- Video



steps of interactivity

Raise Hand

Type into whiteboard

Interact with Whiteboard

Write/Speak

Raise your hand if you can hear me

Write your name on whiteboard

Arrange names alphabetically

Breakout room 'stand-up'

Video

Types of data: Think how likely would you be willing to share these types of data, if in return you (and others) would be given better recommendations

I'd share it publicly, with anyone, under my name Anonymously but with anyone who wants it Only anonymously, only with a trusted company

I'd never share it

10

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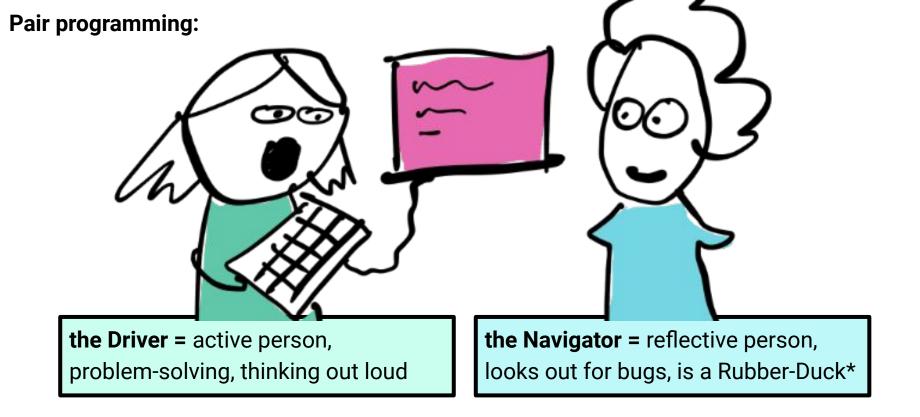
Types of data: Think how likely would you be willing to share these types of data, if in return you (and others) would be given better recommendations

 \bigcirc

Age	Friends list	Religion	10
Medical Health	Family	Dating	I'd share it publicly, with anyone, under my name
Sport Activity	Voting	Nationality	Anonymously but with
Banking/Debt	Beliefs	Mental Health	anyone who wants it
Purchases	Personality	Shop reviews	Only anonymously, only with a trusted company
Movie likes	Allergies	Location	
Food preferences	DNA	Job history	I'd never share it 0

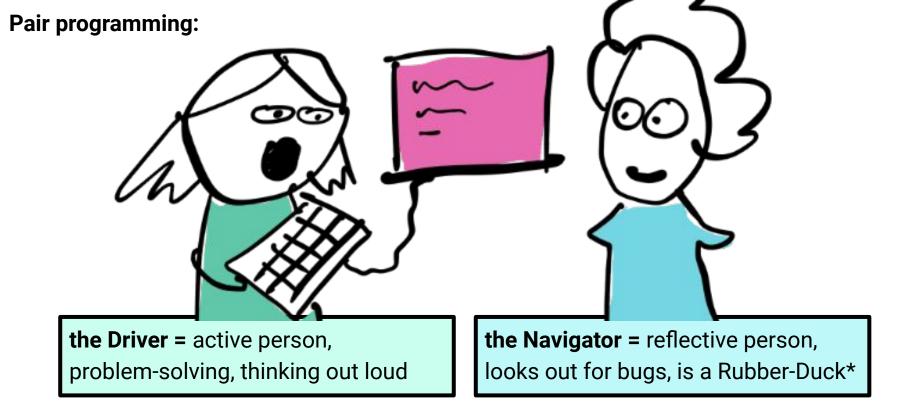
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Pair programming:

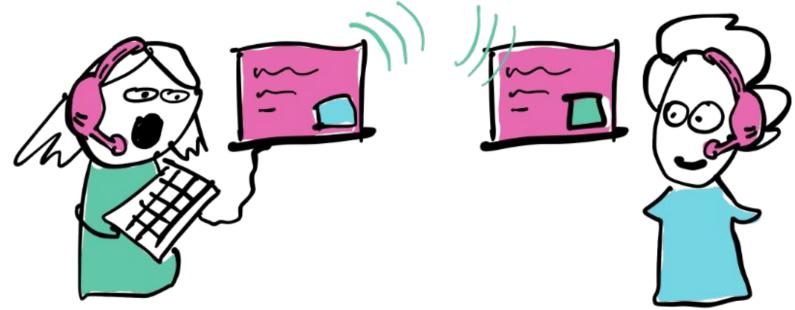




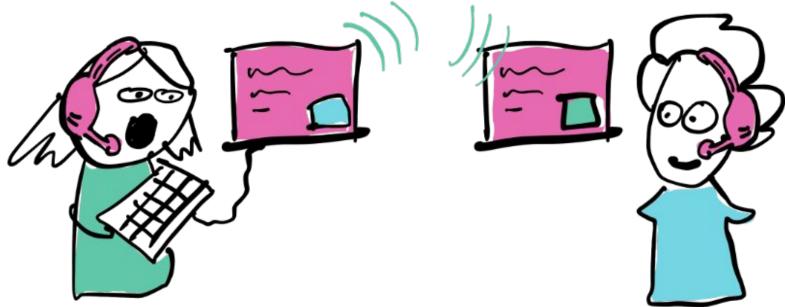
They switch roles every 10 minutes



Pair programming:

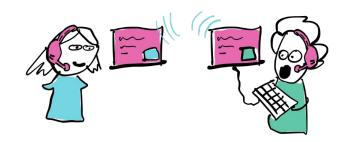


Pair programming:

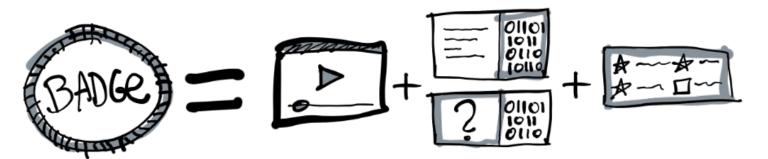


Sharing files:

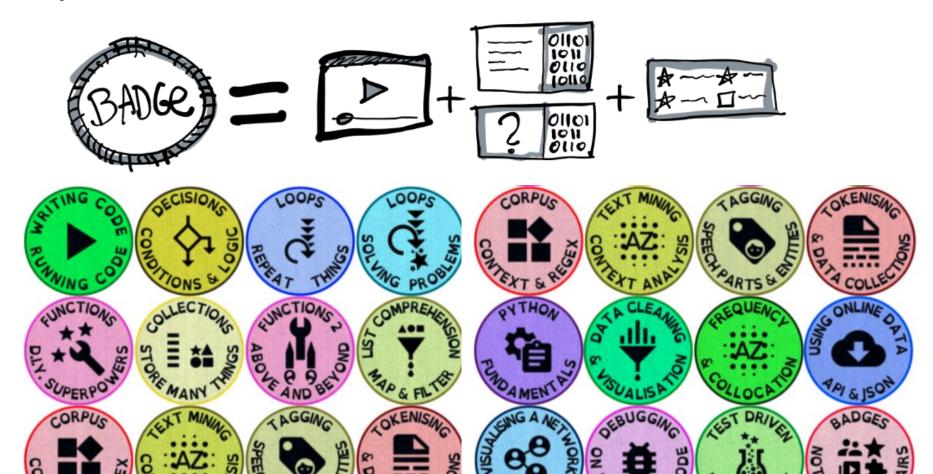
- Noteable token
- Github



Thanks to: Charlotte Fiona Badges Micro-pattern



Badges Micro-pattern







Badge 10: Doing Useful Things with Loops	Pawel Orzechowski	Published	21	21	22
Badge 09: Repeating things with Loops	Pawel Orzechowski	Published	25	25	26
B08 Badge 08 - List Comprehensions	Rawel Orzechowski	Published	28	28	29
B07 Badge - Collections	Pawel Orzechowski	Published	37	36	38
Badge 06: Test Driven Development	Pawel Orzechowski	Published	41	40	42
Badge 05: Functions 2: Above and Beyond	Pawel Orzechowski	Published	37	37	38
Badge 04: Functions, your D.I.Y. Superpowers	Pawel Orzechowski	Published	40	39	41
Badge 03 - Debugging + Variable Types - In your own words: 3 Stars and a Wish	Pawel Orzechowski	Published	47	47	48
Badge 01 - Write code, Run code - In your own words: 3 Stars and a Wish	Pawel Orzechowski	Published	48	48	50
Badge 02 - Conditions and Logic - In your own words: 3 Stars and a Wish	Pawel Orzechowski	Published	48	48	49

Badges

Macro-pattern Learning Week: 4-5 Badges + Lab with Challenges



Badges

Macro-pattern

Learning Week: 4-5 Badges + Lab with Challenges



3-Week Block: 2 Learning Weeks + 1 Week with Assignment



Badges

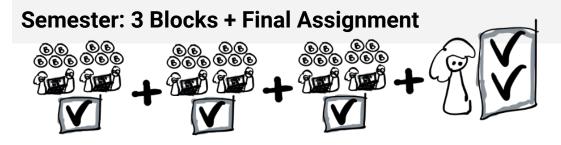
Macro-pattern

Learning Week: 4-5 Badges + Lab with Challenges



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Notebooks and videos:

- voice-over videos with slides
- code-along videos with code

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Lecture 2 - Collections and Loops

4

Learning objectives:

note: This is a **JUPYTER NOTEBOOK**. It's a type of website where you can edit and run computer programms (code). You interact with it in your web browser and you can find it via your Learn.

1. These blocks here are cells

2. There are TEXT CELLS like this one with explanations of concepts

3. and CODE CELLS with Python code (see below). Code cells have a In [] written to the left

4. You can **RUN CODE CELLS** by clicking on them and pressing **Shirt + Enter**. When you run a cell code in it is run (it "happens", computer will do what you asked for it to do). Results of what your code does will appear underneath the cell.

5. As we go through these lessons, please READ text cells, and RUN code cells

6. Good luck!

Learning objectives: By the end of this lesson you will understand what every piece of the below code does:

```
In [ ]: # LIST
planets = ["Mercury", "Venus", "Earth", "Mars", "Jupyter", "Saturn", "Uranus"]
print( planets[0])
print( planets[-2])
planets.sort()
print( planets)
planets.pop(3)
```

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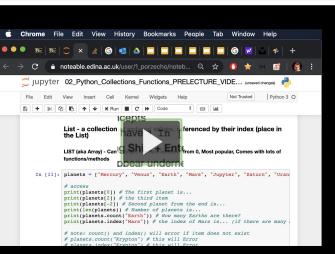


Lecture 2 - Collections and Loops

Learning objectives:

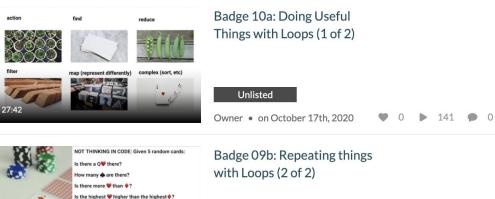
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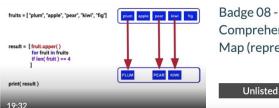
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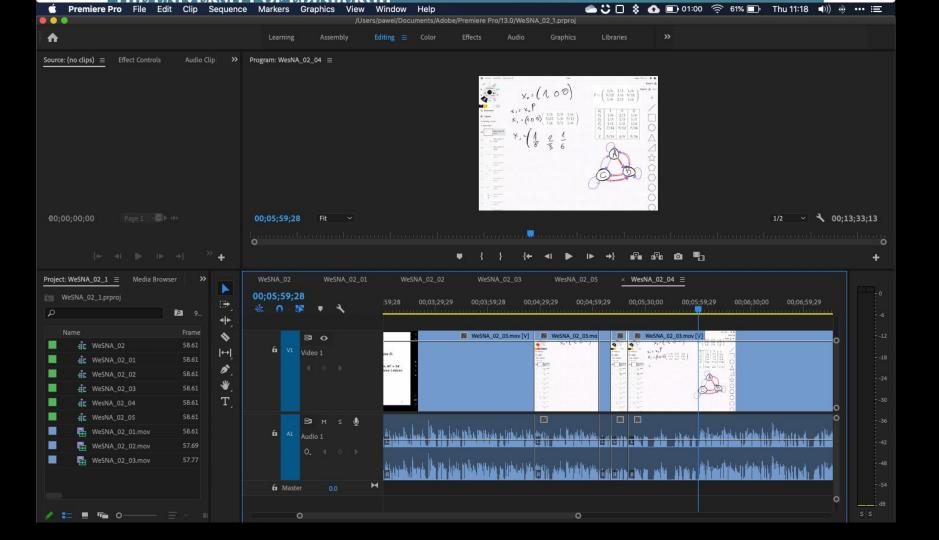


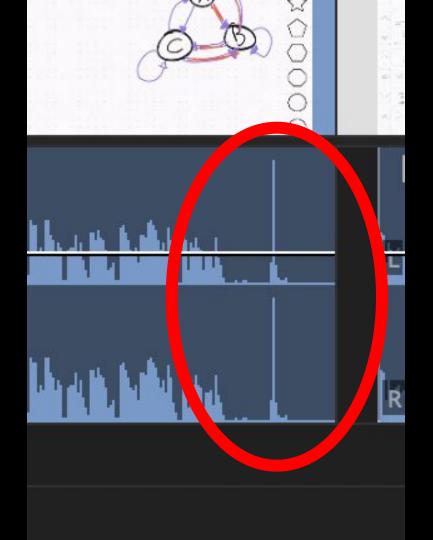
for fruit in fruits: print("word:", fruit) twice = fruit + fruit

22:33

print("word twice:", twice)

Badge 08 - List Comprehensions: Filter and Map (represent) Lists





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