# Teaching Coding, Data Science and Building a Community

Stephanie Boyle

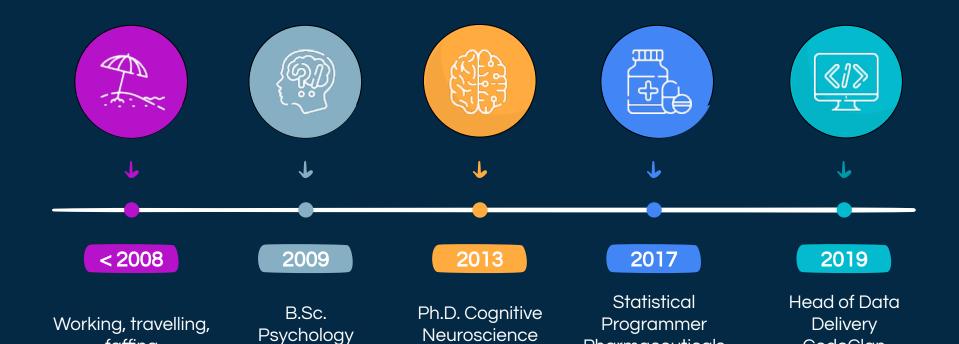




What should we teach?

How should we teach?

Why should we teach?



Pharmaceuticals

CodeClan

faffing

### What should we teach?



















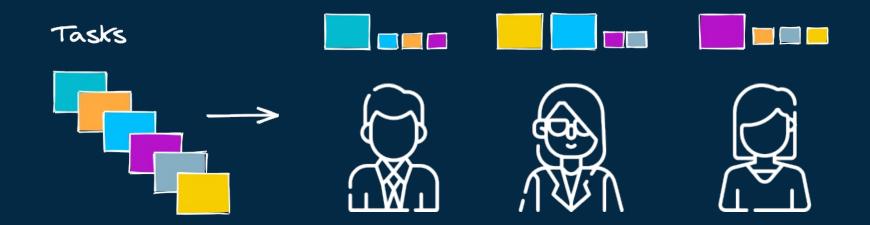






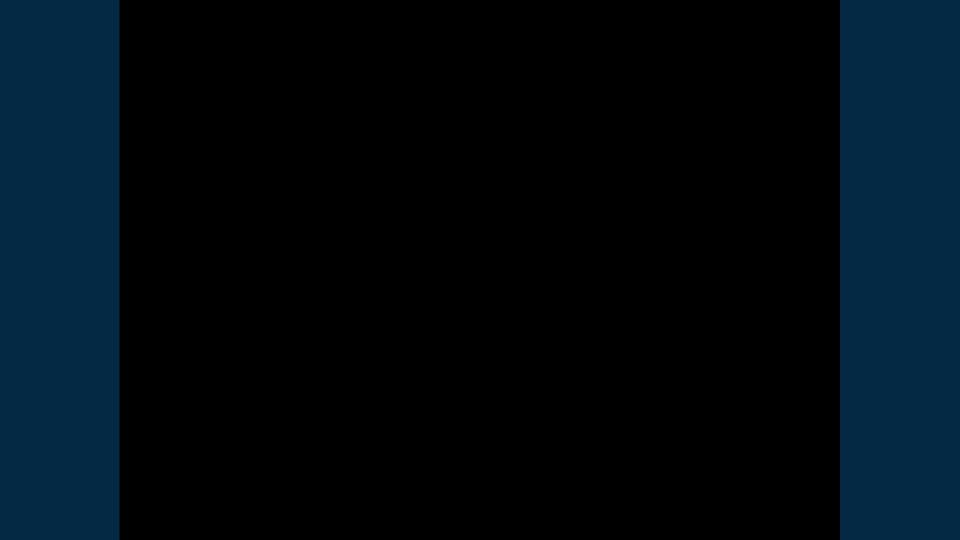


#### T-shaped people



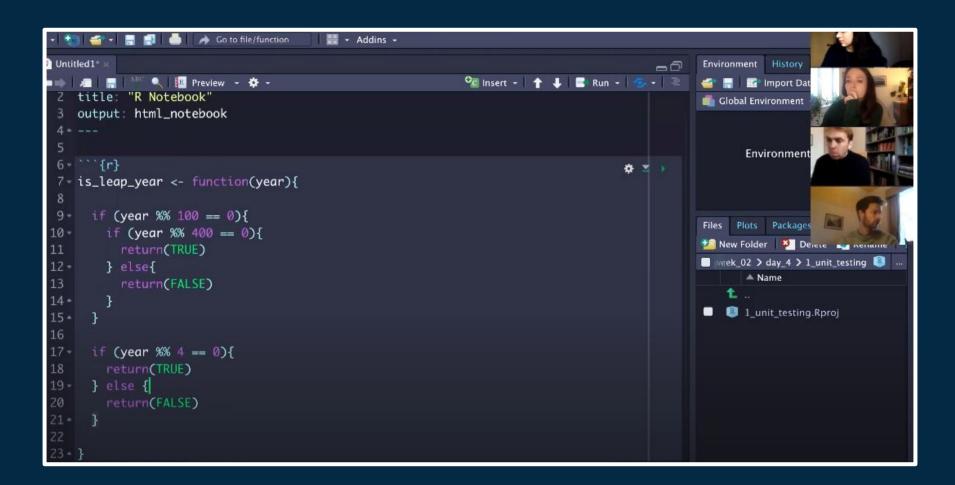
### What you want people to know is often different than what people need to know

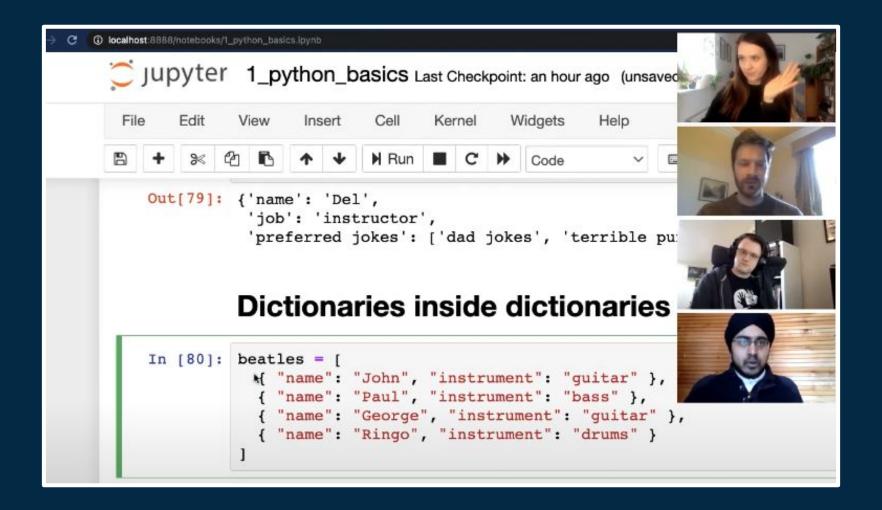
### How should we teach?

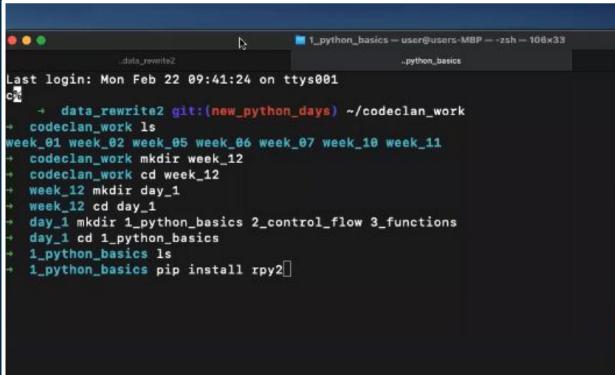




- Gives hands on coding experience to learners. Doing > Talking.
- Shows you make mistakes too. It's ok not to know something.
- Creates a safe space to fail.
- Teaches the how and why, not just syntax.
- Interactivity leads to questions which you google. Emphasises that it's not important to memorise everything.





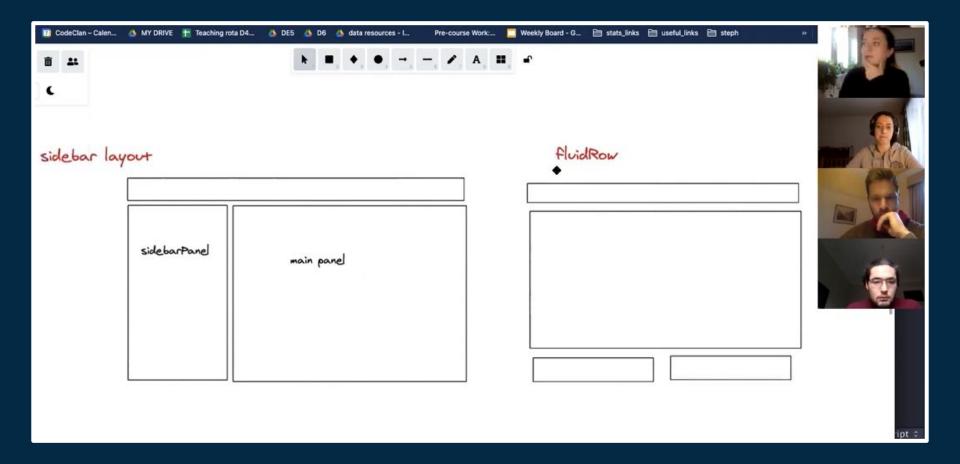












### Why should we teach?



- How your organisation works
- Coding != being perfect
- It's ok to not know everything
- Learn how to learn
- See that googling is option the best (and fastest) option
- Be ok with failure and mistakes



If you want to succeed in tech, learn how to learn.

That's the key. That's how experts are experts.

The "stuff to know" changes too often to depend on knowing one thing or set of things, and different environments need different solutions.

Keep an open mind and keep learning.

5:08 PM · Feb 26, 2021 · Twitter for iPhone

People rarely want to leave jobs where they have room to learn, grow, and thrive.

Invest in people, build them up, and you'll set them (and your organisation) up for success

Elephant in the room...
Training while remote



### Totally doable to train remotely IF YOU INVEST





- Hire people with high motivation to learn
- Move organisational resources to support the teams
- Assign a dedicated mentor for them
- Give the mentor credit for it
- Balance paired tasks / projects / solo work
- Make sure they're involved in daily stand ups



Replying to @GergelyOrosz

Every single one of the interns we invested in their first 6-12 months have gone to grow at incredible speeds after: and they are also often the best mentors for new interns.

The kicker? Their mentors grew a lot as well!

If you can't invest, don't expect these rewards.

Those who can, do Those who can't, teach





## Those who can, should You probably already, do







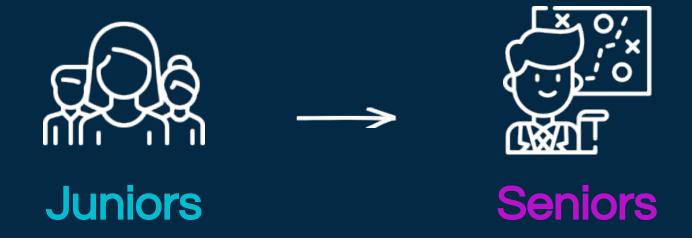






**Seniors** 

- Reinforces knowledge of seniors
- Teaches them how to be mentors/managers
- Teaches them new skills & tech
- Pays it forward
- Lets juniors see the way seniors work
- Creates a strong community



The difference between is training and experience.

## Community is hard to come by, but it is so worth it



- Create a culture (in your classroom, office, or workforce) where sharing and learning is key
- Build a learning culture where everyone can contribute
- If people feel comfortable, they'll ask
- Don't have strong players dominating weaker and strong need to co-exist
- You'll have a workforce that can work together

#### Thanks!

#### Stephanie Boyle



