

Improving your skillset

Good research code

Patrick Mineault

Lesson 5

Maybe the real good code is the friends we made along the way

Lesson 5

Work with better people than you

Reality check

- ▶ People think that programming is a solitary activity
- ▶ Reality: at a place like Google, programming is very social
 - ▶ readability
 - ▶ code reviews
 - ▶ design reviews
 - ▶ pair programming
 - ▶ reading groups
 - ▶ retreats
 - ▶ performance reviews

Open discussion

Q: what is pair programming?

Practical tips

- ▶ Open an issue in an open source project
- ▶ Open a PR in an open source project
- ▶ Set up pair programming with people in your lab or study group
 - ▶ One person drives, one person co-pilots
 - ▶ Learn how at NMA2021!
 - ▶ CoCalc and DeepNote can do this remotely.
- ▶ Set up study group with fellow programmers (event suggestions from Mozilla).

Set up a review circle

You can use Github Pull Requests to give and receive line-by-line feedback on code.

It doesn't have to be lonely

- ▶ Maybe you're the best coder in your lab so you don't have opportunities for growth
- ▶ Contribute to open source projects
 - ▶ NMA & NMC are always happy to have more people!
- ▶ Join a community or hackerspace
 - ▶ BrainHack.org
 - ▶ Meetup
 - ▶ Hackerspaces
 - ▶ PyLadies

Become a wizard!

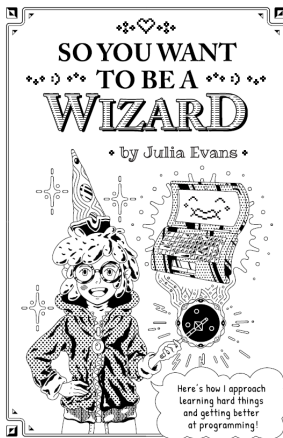
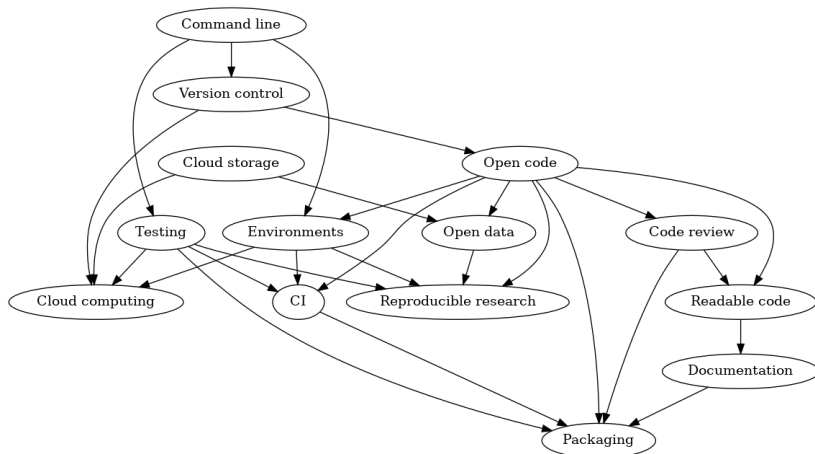


Figure 1: zine by Julia Evans, released under CC-BY-NC-SA 4.0 license

Wizard!

- ▶ Great zine about how to become a wizard from Julia Evans
- ▶ Zine link

You are never finished learning!



Acknowledgement

Thanks to the reviewers, Tyler Sloan and Elizabeth DuPre who made this talk much better.

You can accomplish anything!

Recording LIVE on YouTube You are viewing John Murray's screen View Options Exit Full Screen

Kozyma, Fred d'Oleire Uquillas, Gill Karmi, Grace Lindsey, Gunnar Blohm, Haosue Fan, Helena Ledmyr, Hyosuk Kim, Itzel Olivos, Jai Kiran, Jakob Macke, Jan Drugowitsch, Jeffrey Erlich, Jeremy Forest, Jeroaranda, Jesse Livezey, Jesse Parent, Jiaying Xu, Joao Barbosa, Johanna Bayer, John Butler, John

From Miguel Núñez to Everyone with the*

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Lesson 5

- ▶ Work with better people than you
- ▶ It's a bit of a stretch to make this work with the theme of WM & LTM
 - ▶ The most important point: grow with people
- ▶ Your 5-minute exercise: schedule one pair-programming session