

Improving your skillset

Programming good research code good

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

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
- ▶ Set up a review circle

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!

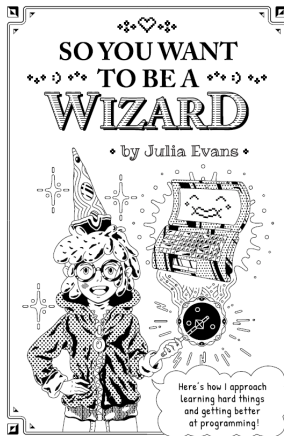


Figure 1: zine by Julia Evans, released under CC-BY-NC-SA 4.0 license

Wizard!

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

You are never finished learning!

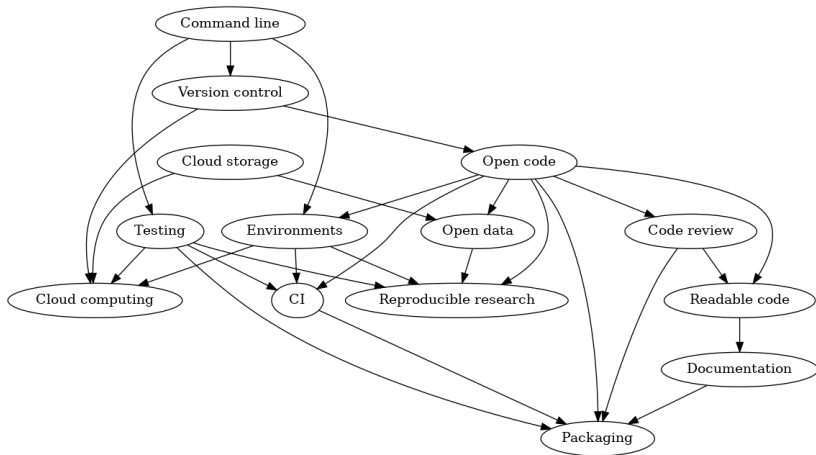


Figure 2:

You can accomplish anything!

The screenshot shows a Zoom video conference interface. At the top, a status bar indicates 'Recording LIVE on YouTube' and 'You are viewing John Murray's screen'. Below this, a large black rectangle on the left contains a pyramid-shaped list of names in yellow text. The names include: Beth Straley, John Murray, Maryam Vazirani, Tara van Viegen, Megan Peters, Patrick Minelli, Gunnar Blohm, Sean Escobar, Elnaz Karami, Panagiotis Theodoridis, Aina Puce, Xaq Pittkow, Brad Wyble, Eric DeWitt, Konrad Kord, and Madineh Safar. A chat window at the bottom center shows a message from Miguel Nunez to Everyone. The bottom of the interface includes 'Audio Settings', 'Chat', 'Raise Hand', 'Q&A', and a 'Leave' button.

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

Beth Straley John Murray Maryam Vazirani
Tara van Viegen Megan Peters Patrick Minelli
Gunnar Blohm Sean Escobar Elnaz Karami
Panagiotis Theodoridis Aina Puce Xaq Pittkow
Brad Wyble Eric DeWitt Konrad Kord
Madineh Safar

From Miguel Nunez to Everyone with the*

Audio Settings Chat Raise Hand Q&A Leave

Figure 3:

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