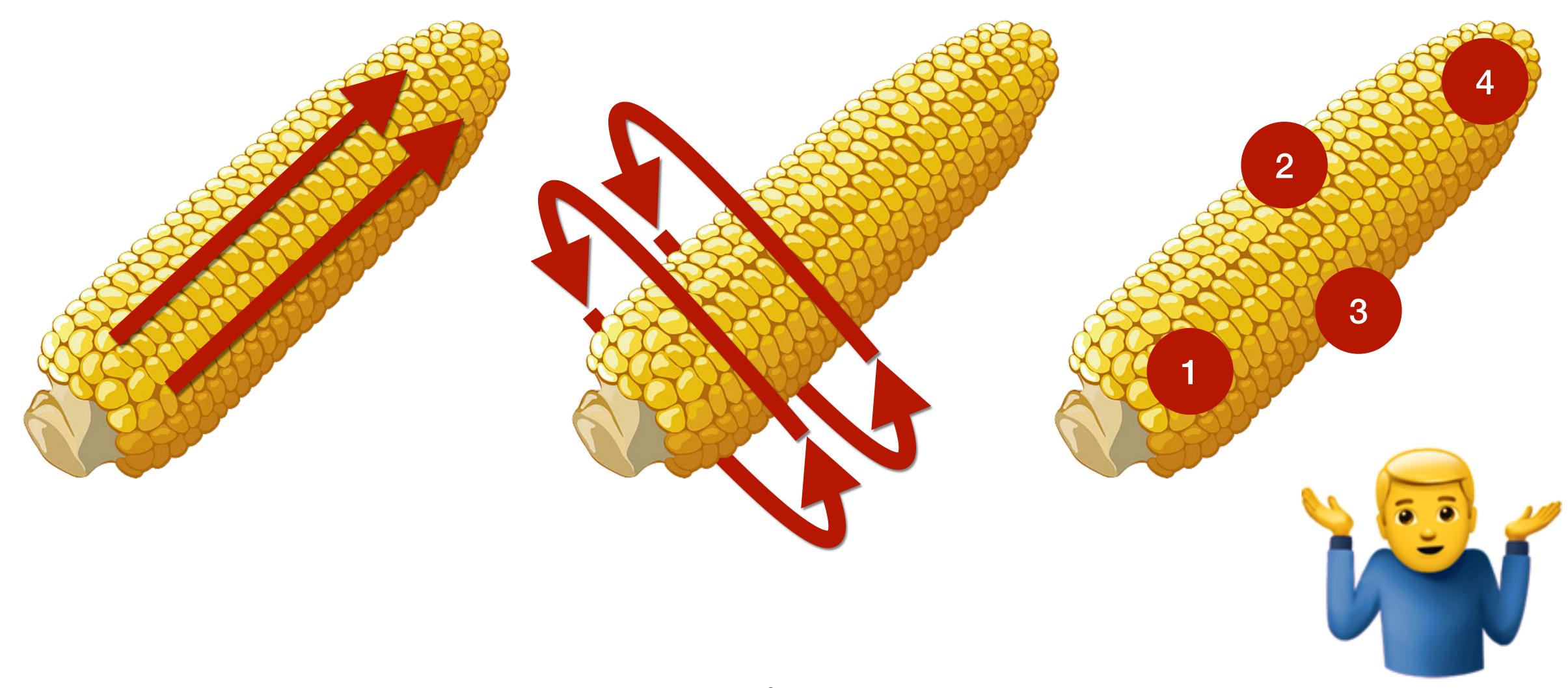
How to Thrive as a PhD Student



Sam Westrick
PLMW 2022
Ljubljana, Slovenia

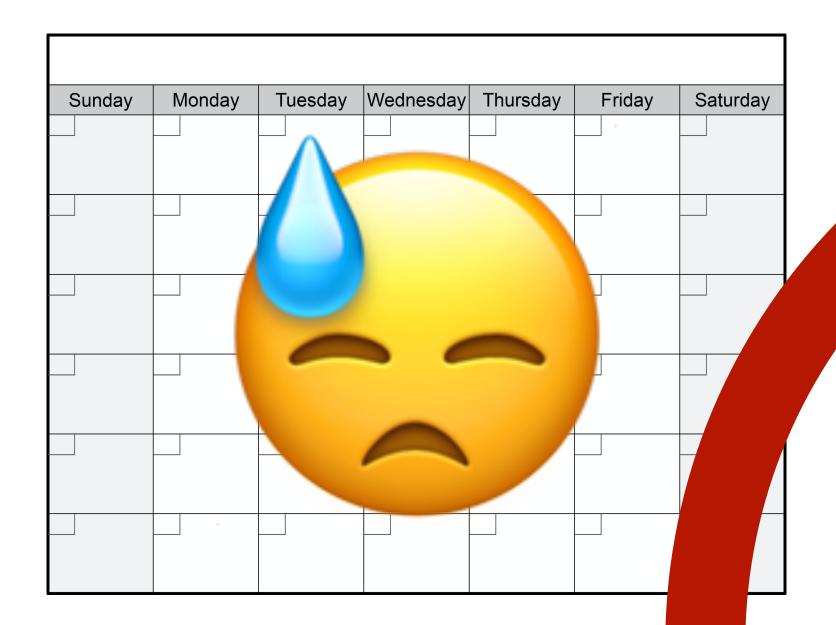
No Right or Wrong Way

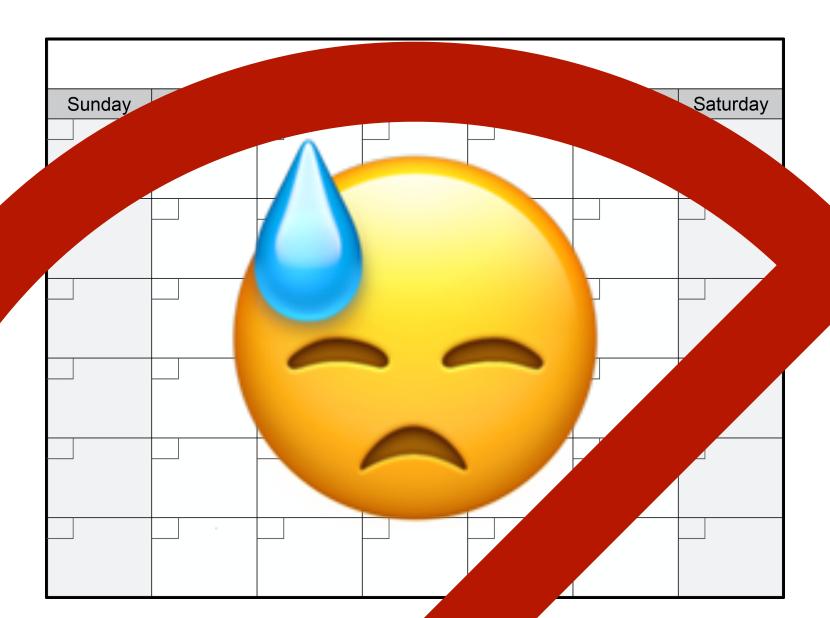


(Under→)Grad Mentality

- undergrad: classes are necessary
- grad: classes??
 - unavailable: rapidly approaching frontier of human knowledge
 - if available, an investment
- be aware of time+energy expenditure
- be aware of your personal reward system
 - constant small rewards?
 - infrequent big rewards?

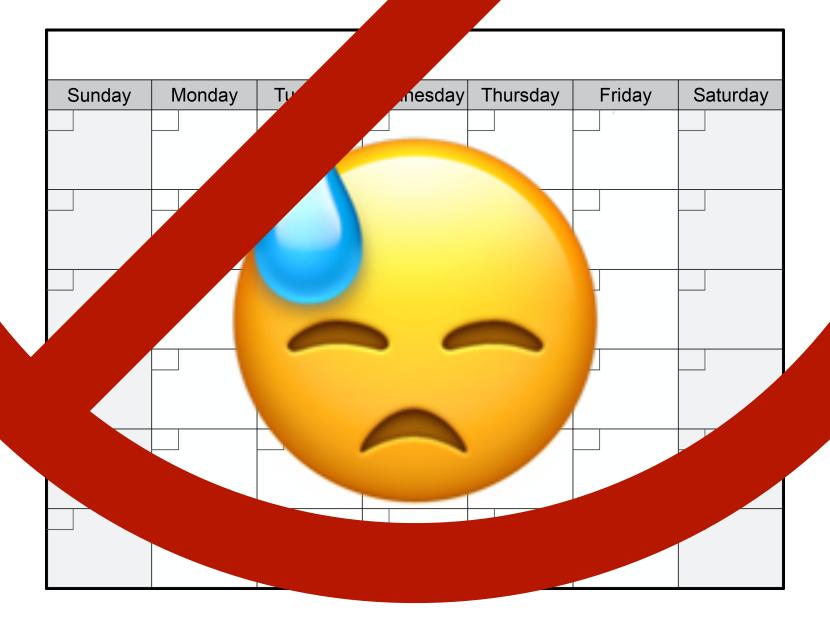
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday

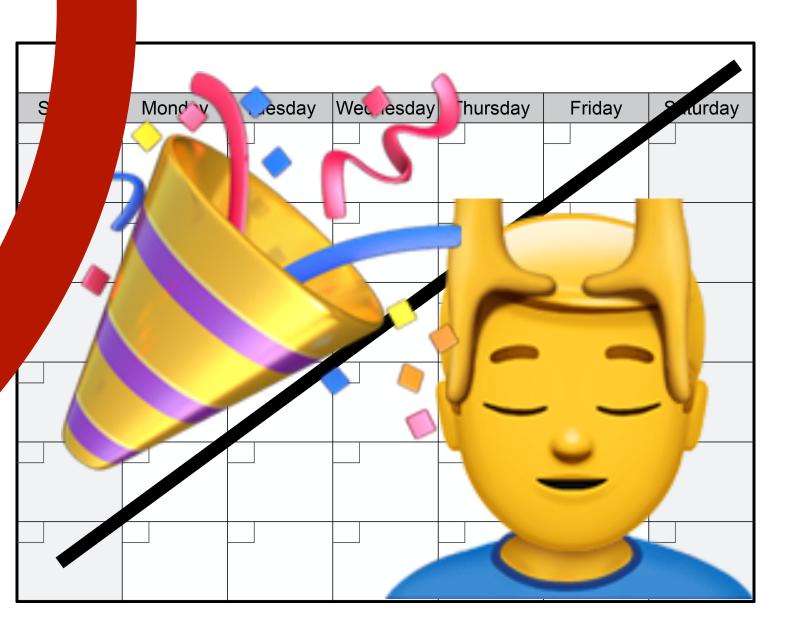




Ī	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						•	
		_ 1				T	
						 	

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	ay
		^				
		Z				
	\ \					





Meaningful Measure of Daily Progress

- if deadline is 6 months away, how to measure progress?
 - daily progress ≠ publish paper / solve problem / prove theorem / fix bug
 - daily progress = time+energy expended
- "I got stuck on the proof yesterday. Today I spent X hours on it, but still stuck"
 - daily progress? YES
- deadline arrives and you're not done? that's fine.
- feel tired? done for today.
 - Go eat some food!
 - Go for a walk!
 - Go play games!



Find Your Hours

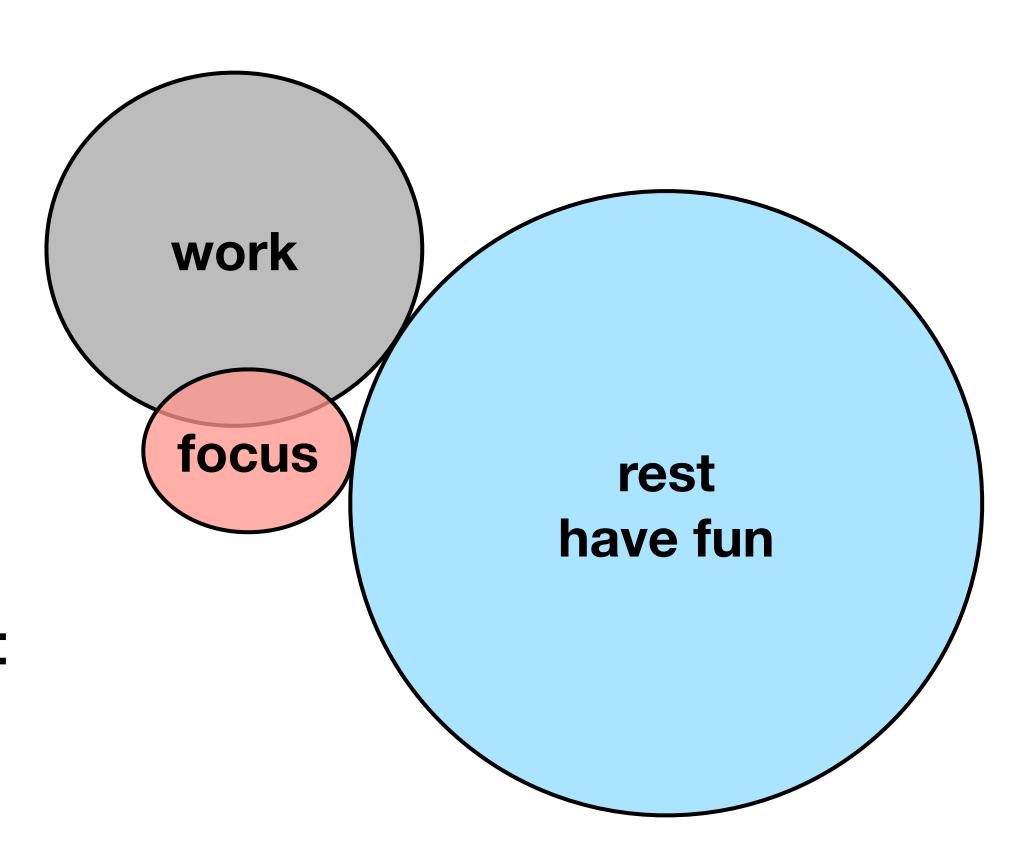
- focus hours:

e.g. complex proof,
 debug something nasty,
 paper meat

- working hours:

- e.g. respond to emails,
 scheduling, meetings
- outside of work/focus hours, you have a job:





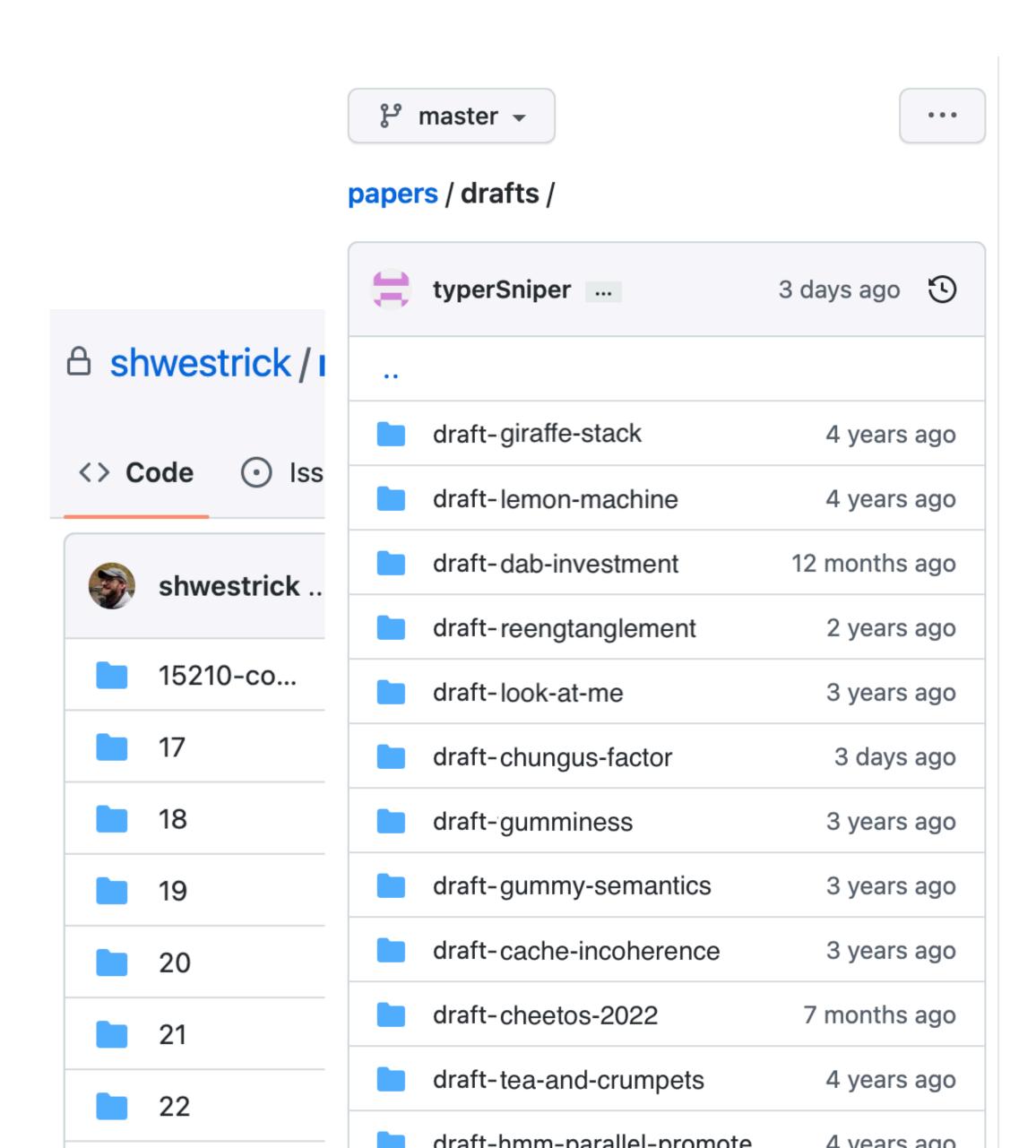
What Kind Of Work Is This?

- before spending a lot of time on something, ask yourself:
 - is this personal enrichment?
 - is this "just engineering"?
 - is this research?

Projects Projects Projects

- don't over-invest in one project
 - 2 projects is nice!
 - lead one
 - help out with another
 - if stuck on one, work on another

- create environments for incremental progress
 - running notes, the braindump document
 - "just make the damn repo"
 - EMBRACE THE CHAOS



Managing Expectations

- perfectionism can be...
 - useful: get good work done
 - rewarding: feel pride in good work done
 - unhealthy: impose unrealistic expectations on self
 - toxic: impose unrealistic expectations on others
- it's okay to make mistakes
- warm fuzzy typos



me, circa 2018. advisor's office. one week before deadline. (dramatized)

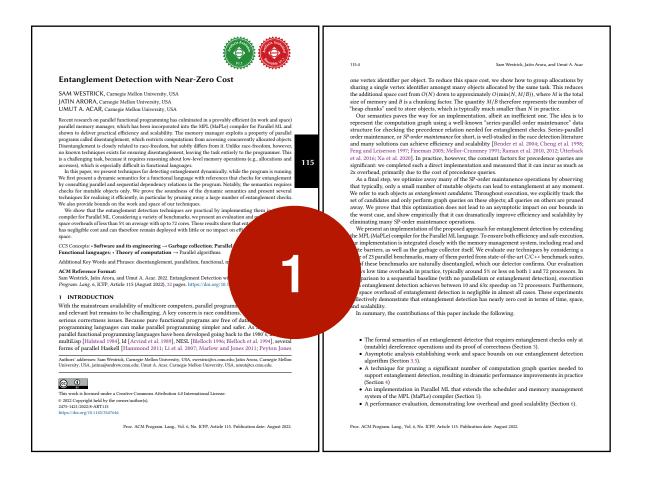
Response Repertoire

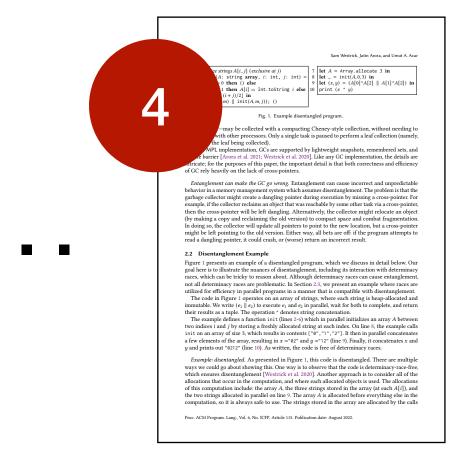
- don't know how to answer a question?
- no problem. just be honest:
 - "We haven't looked into that yet, but we plan to."
 - "I've thought about this, and couldn't figure out X."
 - "I'm not familiar with that. Could you send me more info about it later?"

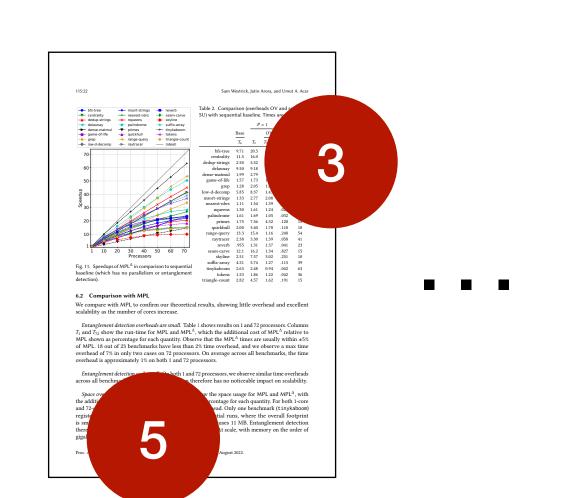
your own journey is valid

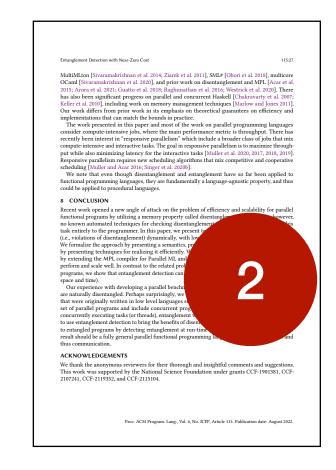
Writing Tips

- no two people will read your paper the same way
 - reader A: skims to get the gist
 - reader B: introduction, conclusion... done
 - reader C: a bit from each section, out-of-order
 - reader D: research paper? Nah, this is a novel.
- goal: give each reader something to keep them going









Thanks!