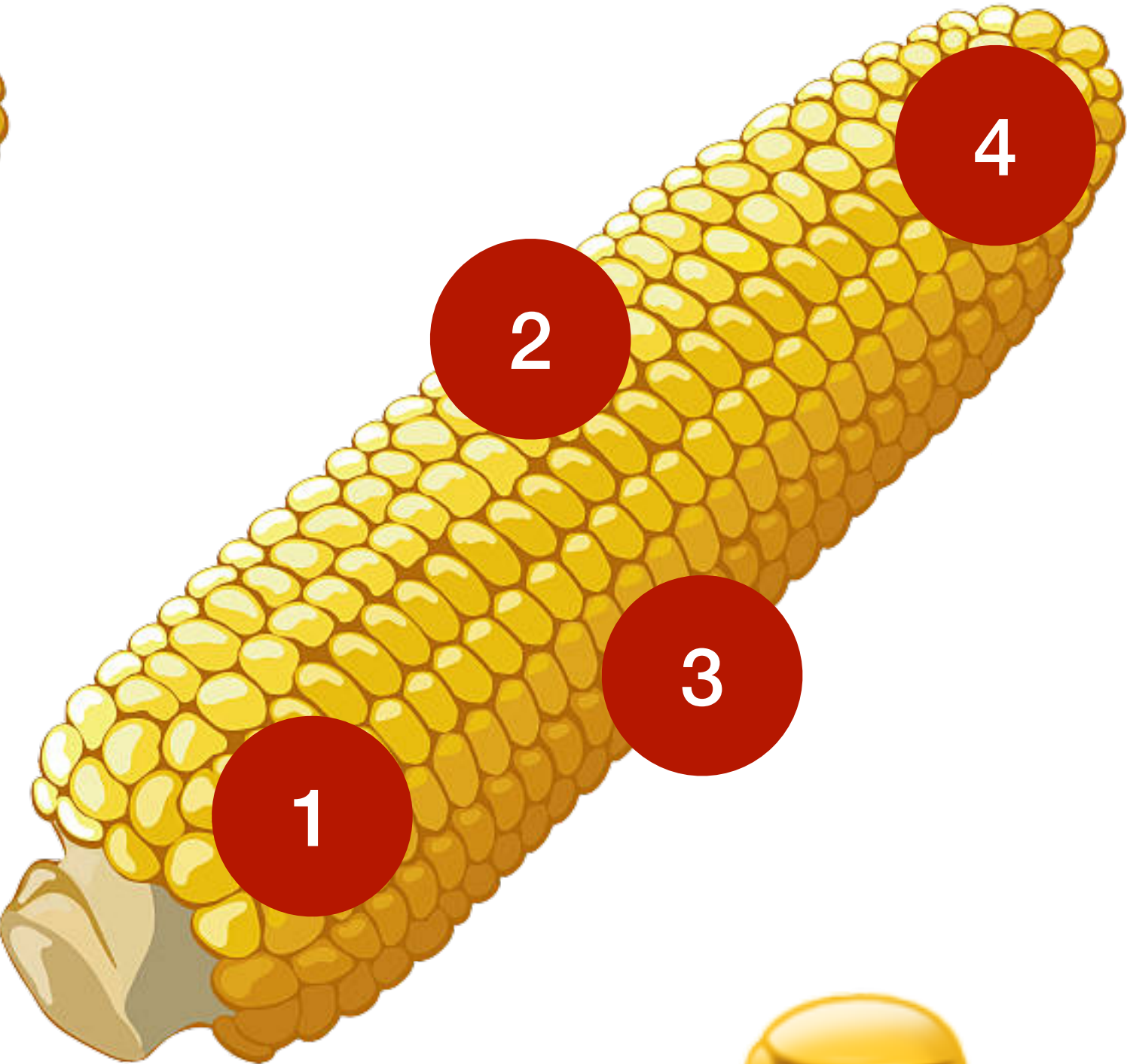
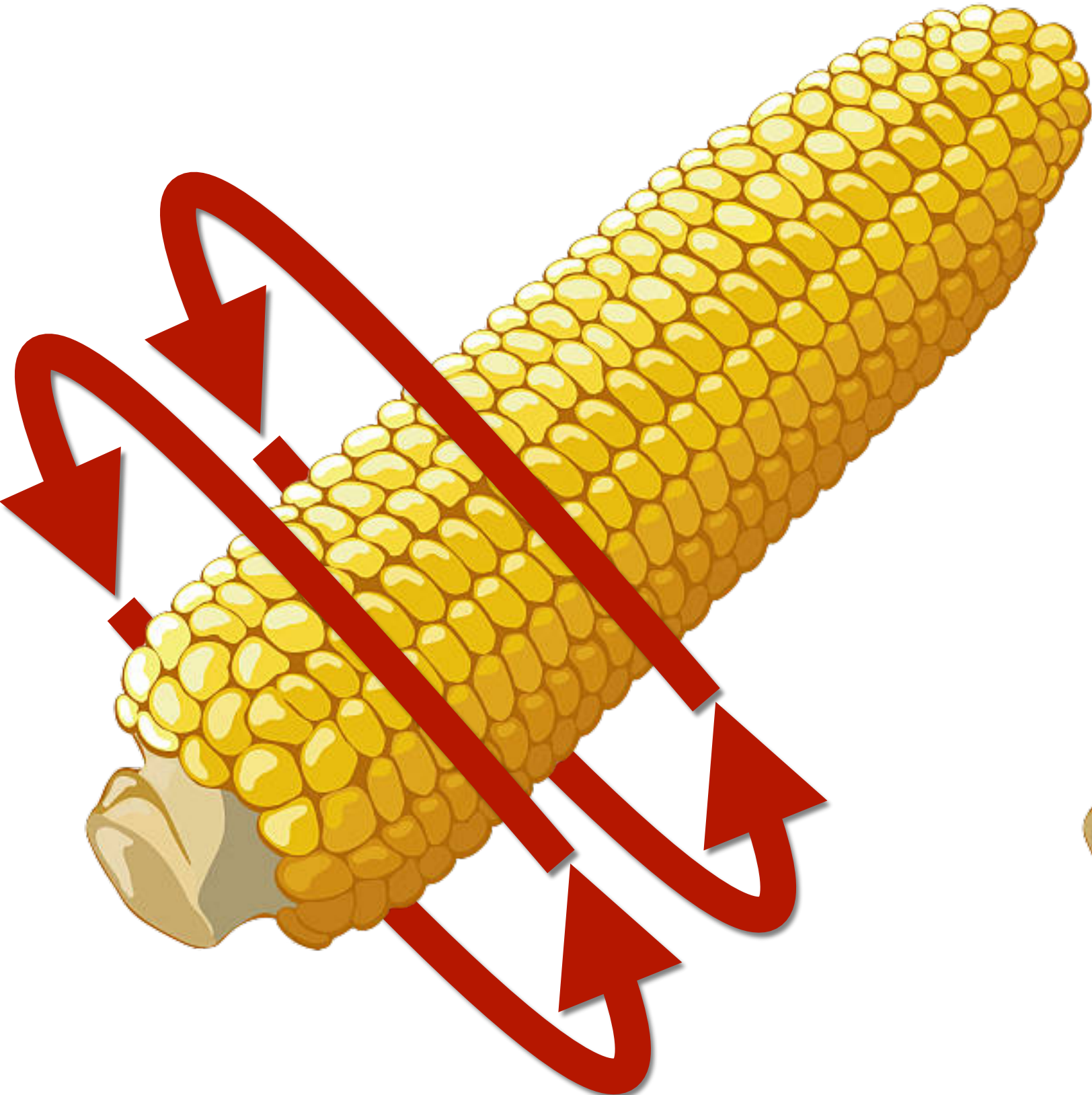
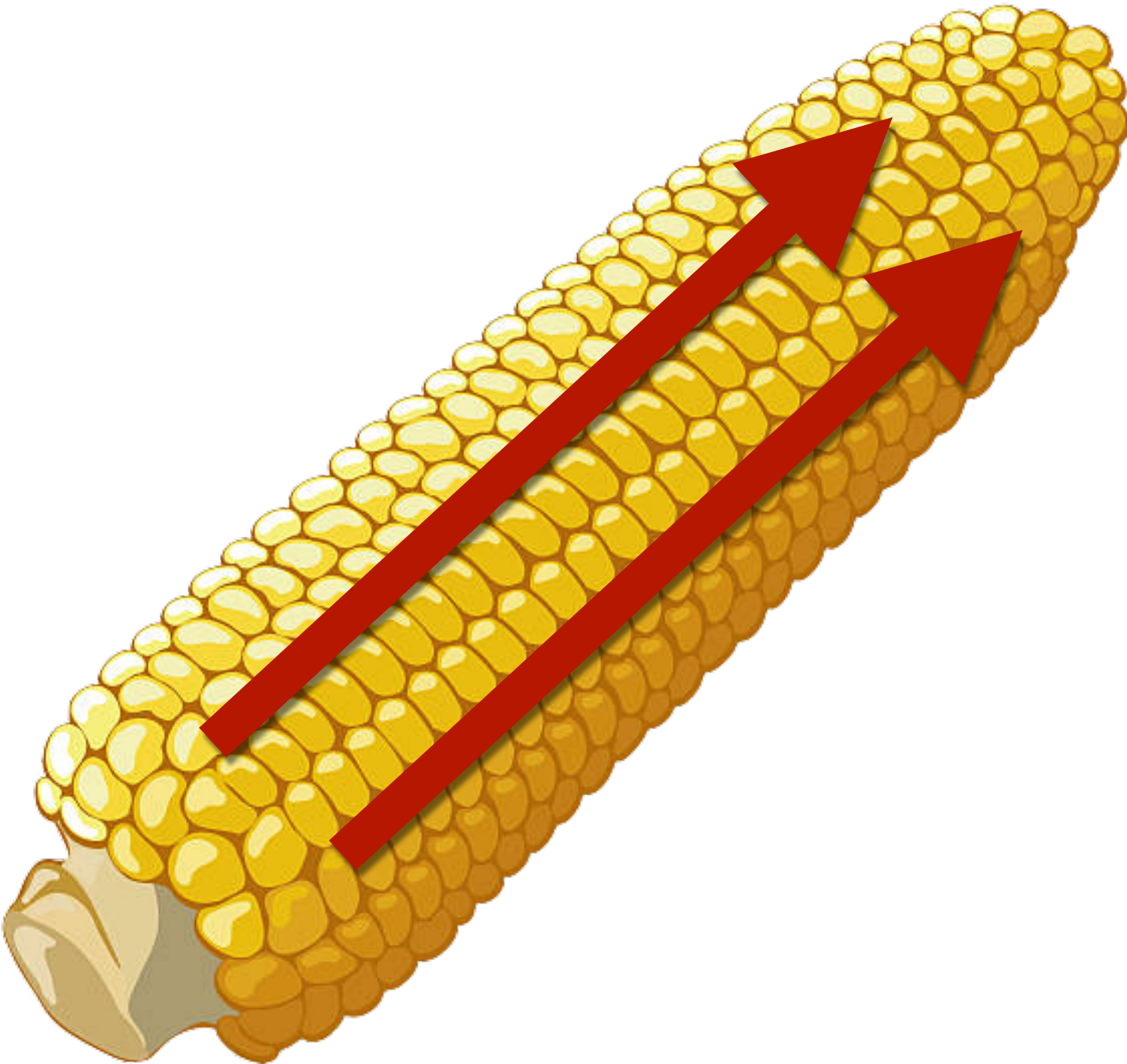


How to Thrive as a PhD Student





















Sam Westrick
PLMW 2023
Seattle

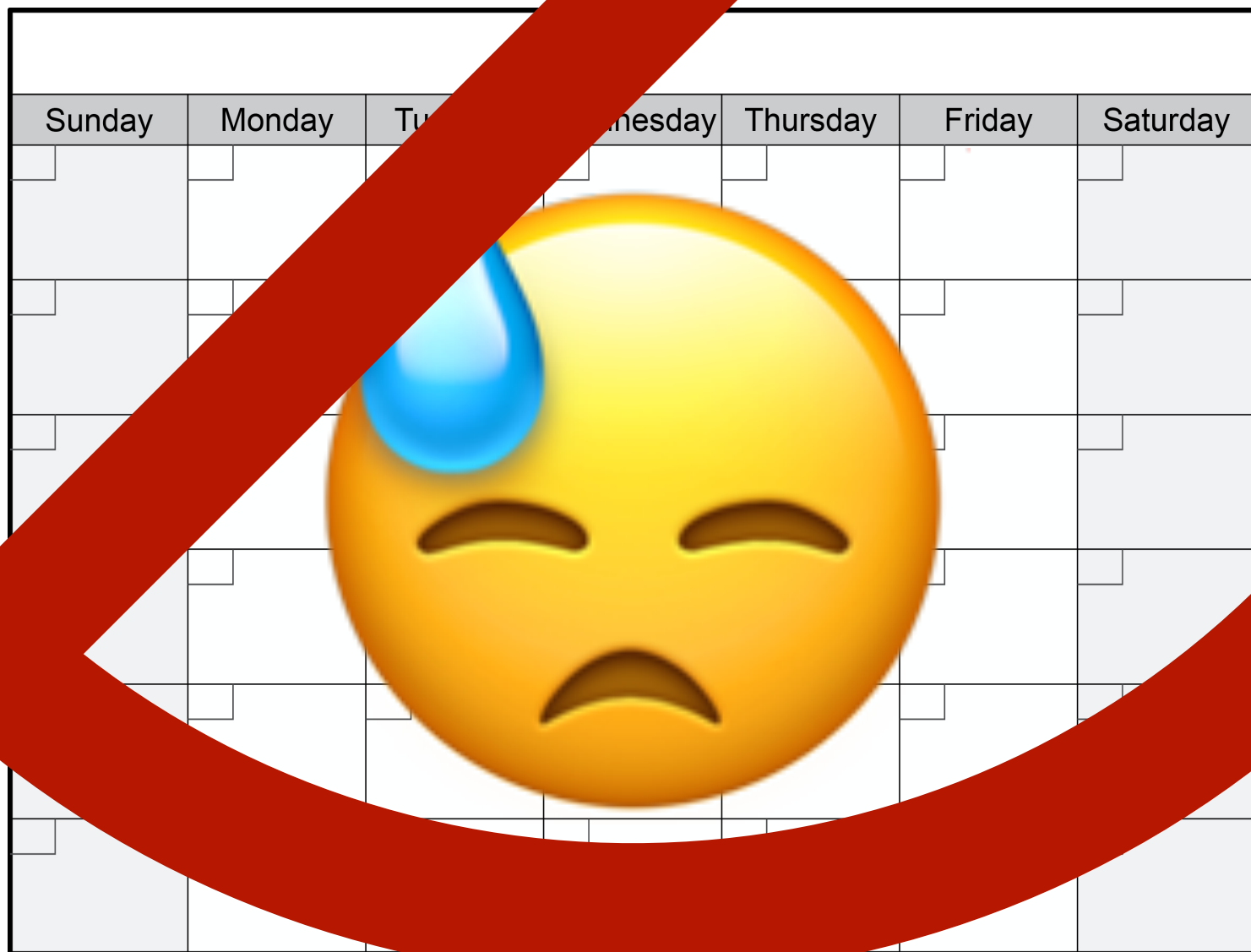
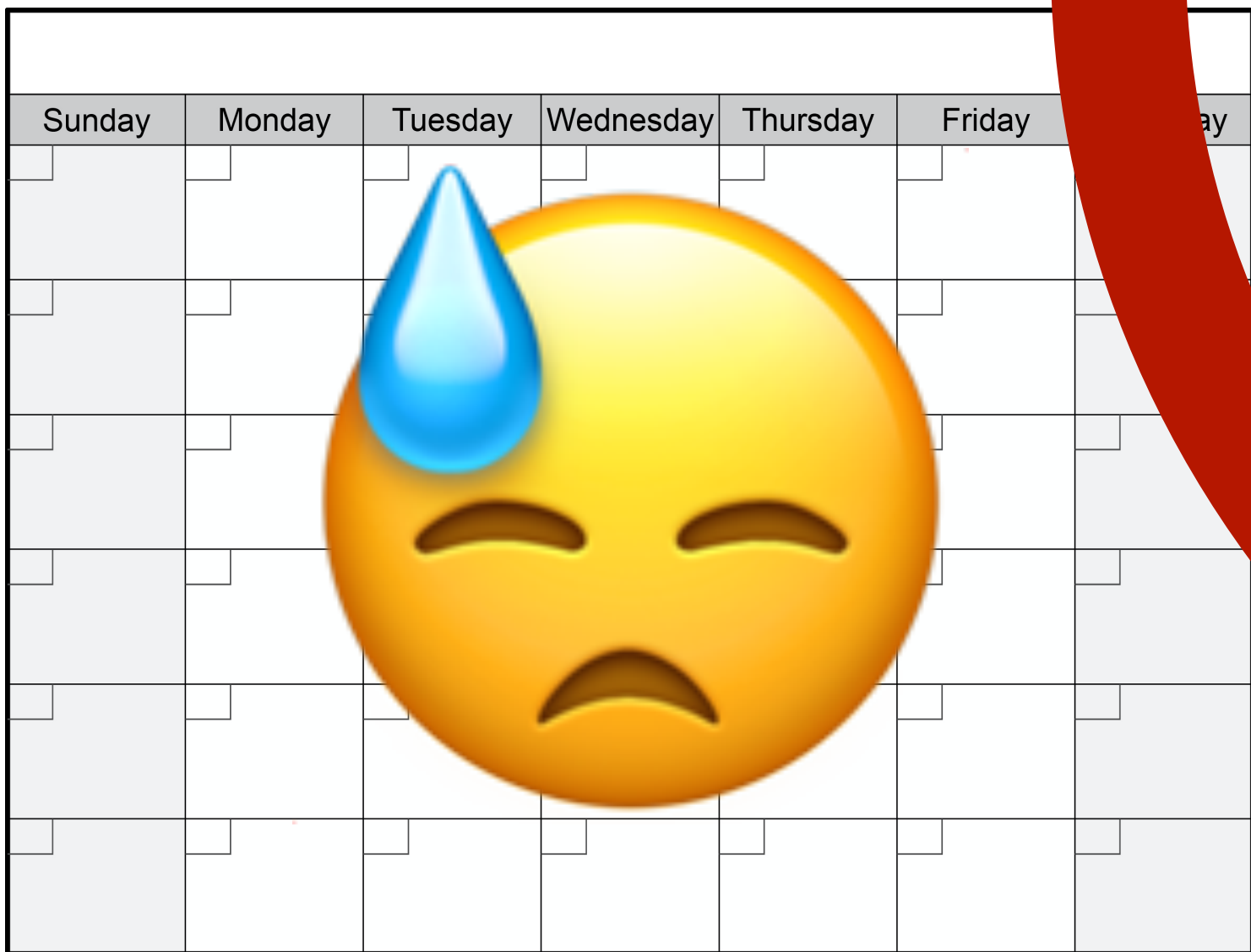
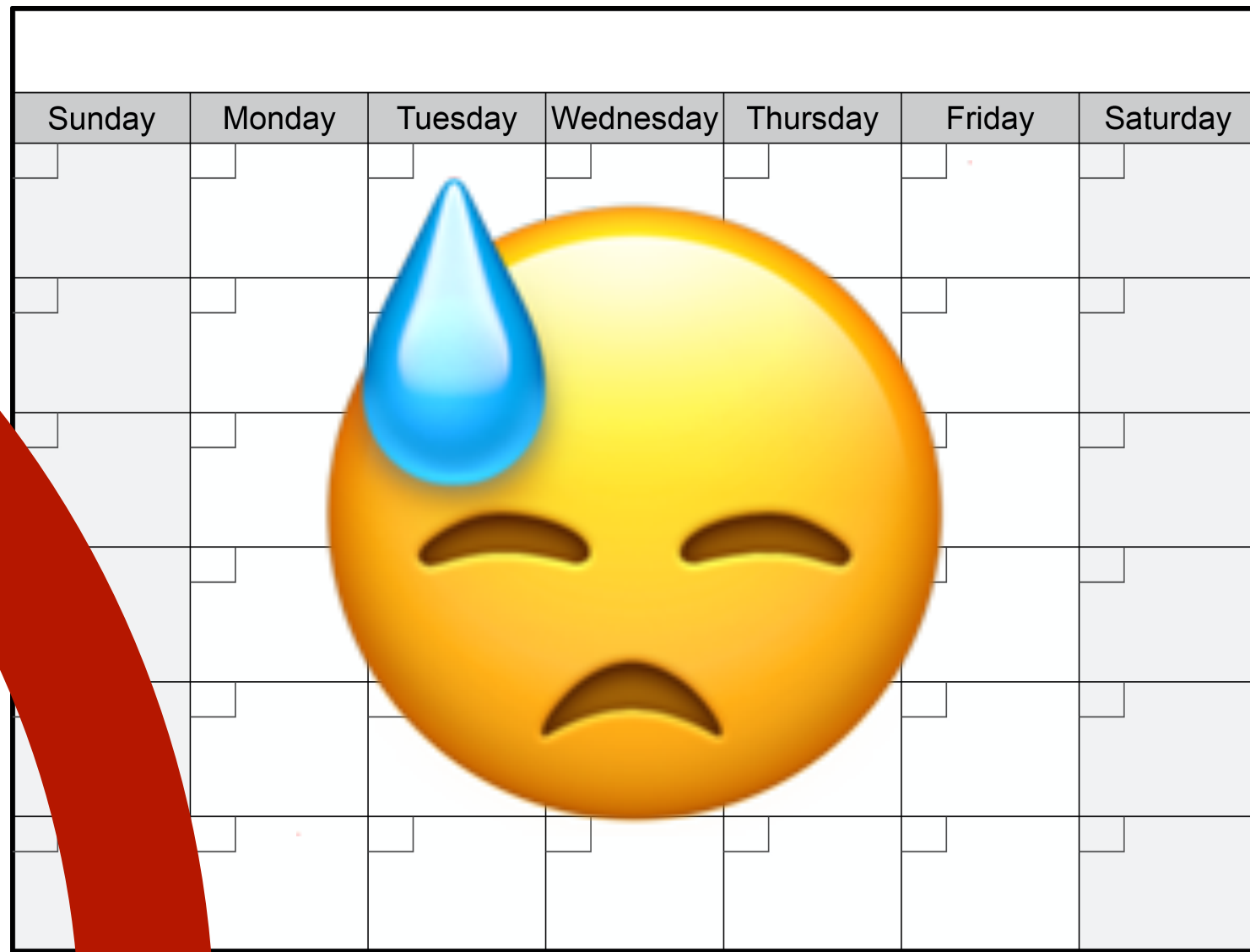
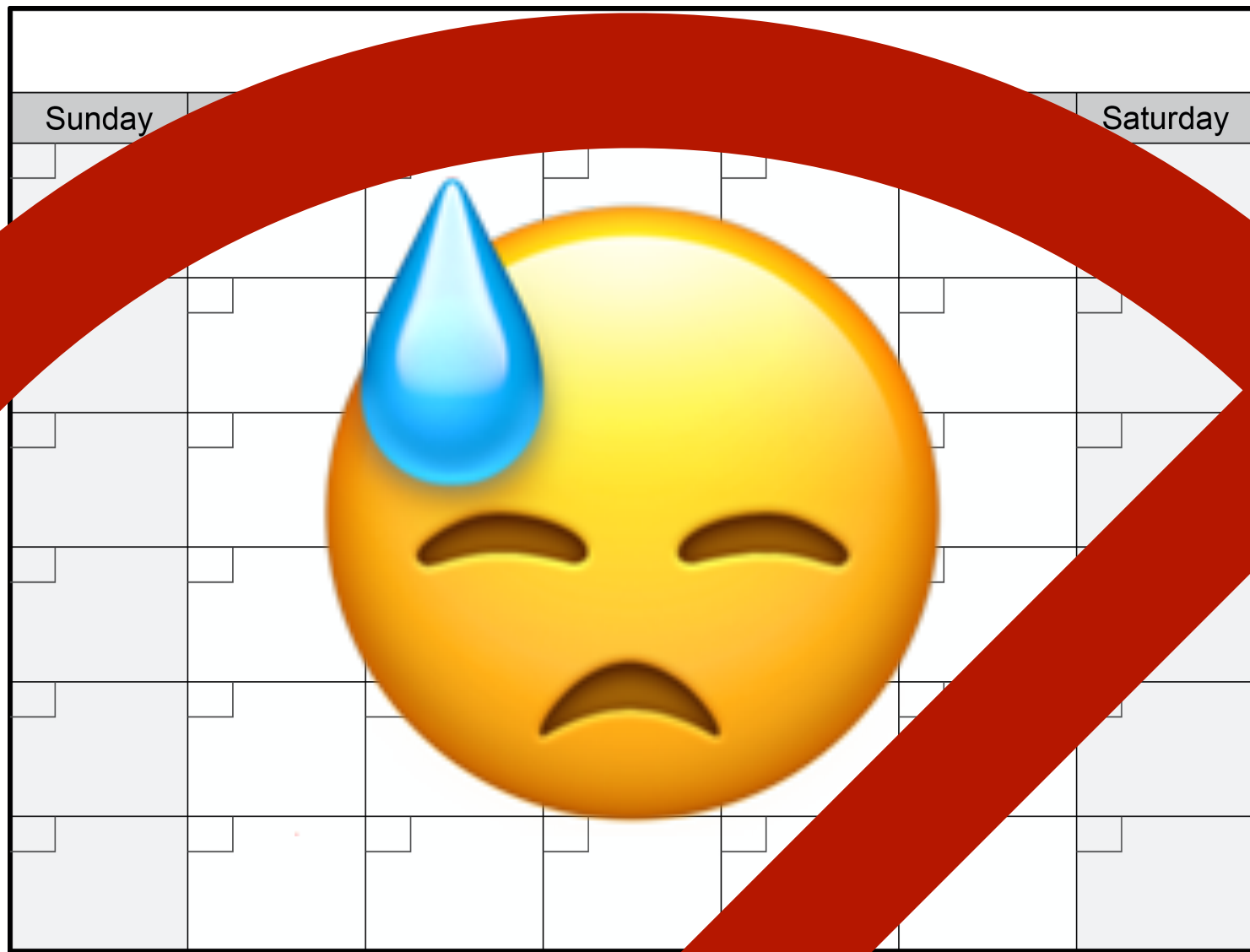
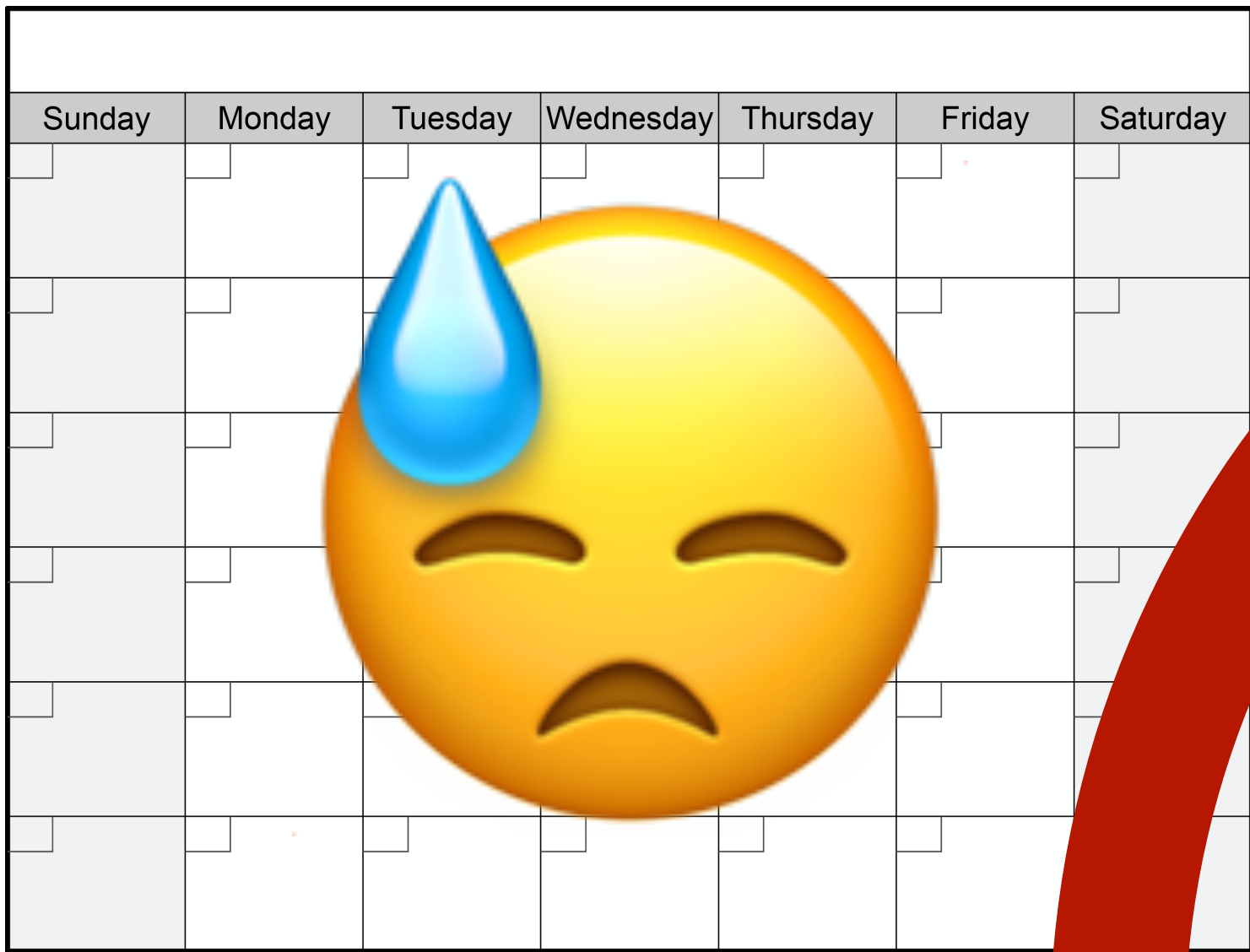
No Right or Wrong Way



(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
		 			 	
	 		 	 		
		 	



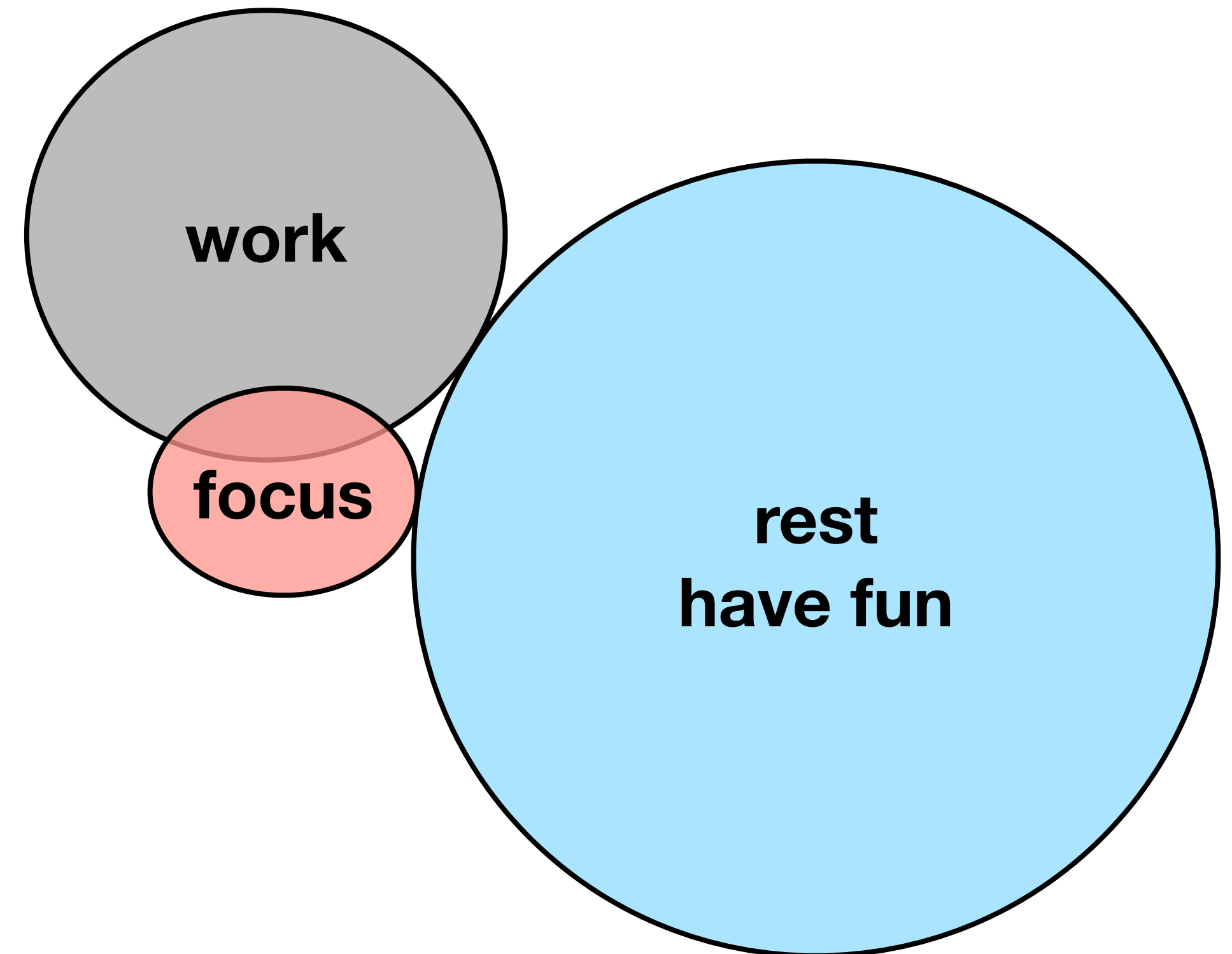
Meaningful Measure of Daily Progress

- if deadline is 6 months away, how to measure progress?
 - daily progress \neq 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**
- feel tired? **done for today.**
 - Go eat some food!
 - Go for a walk!
 - Go play games!
- deadline arrives and you're not done? **that's fine.**



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:**



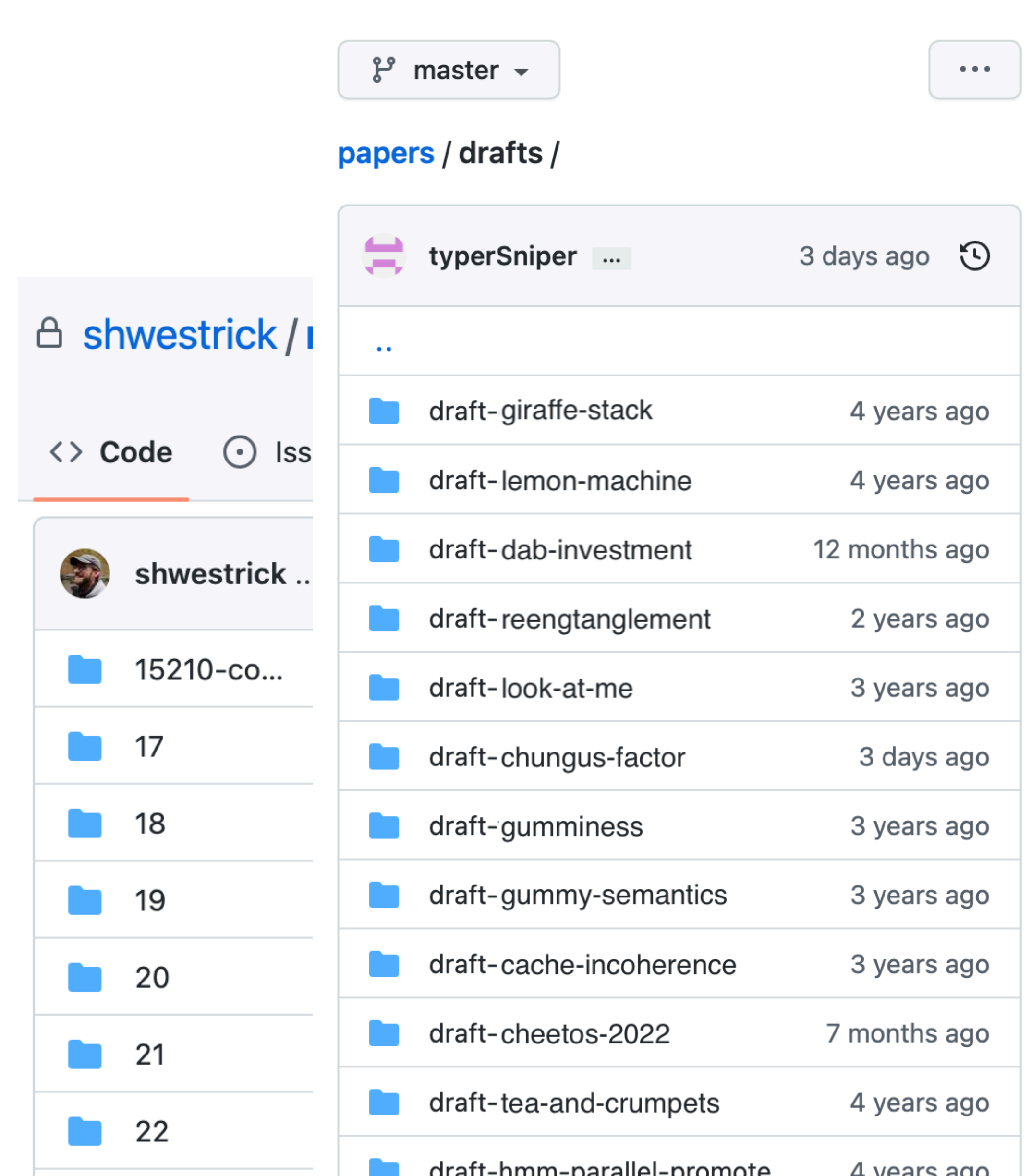
DON'T WORK

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**?

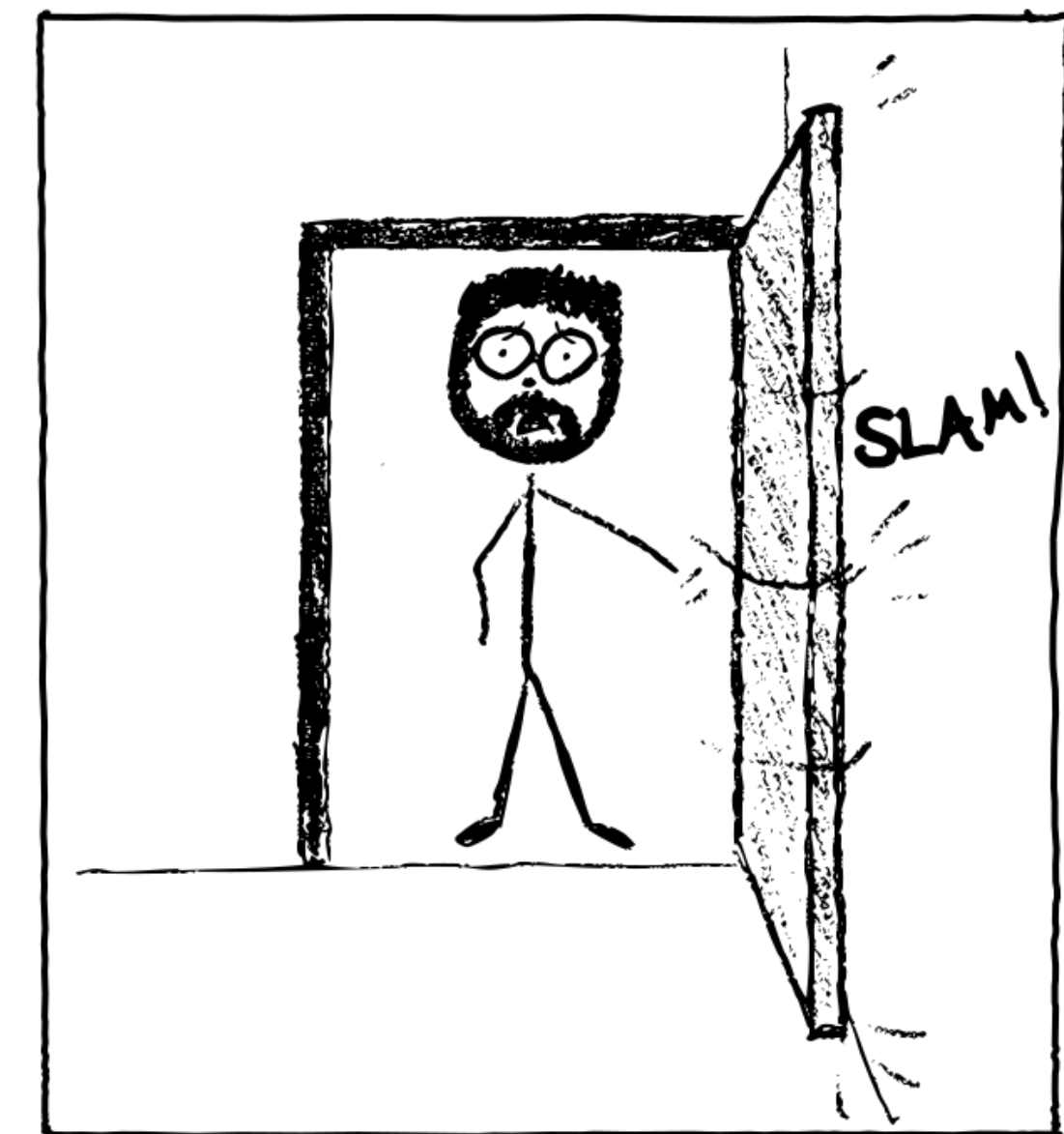
Projects Projects Projects

- 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

1

2

3

4

5

Thanks! 🙌