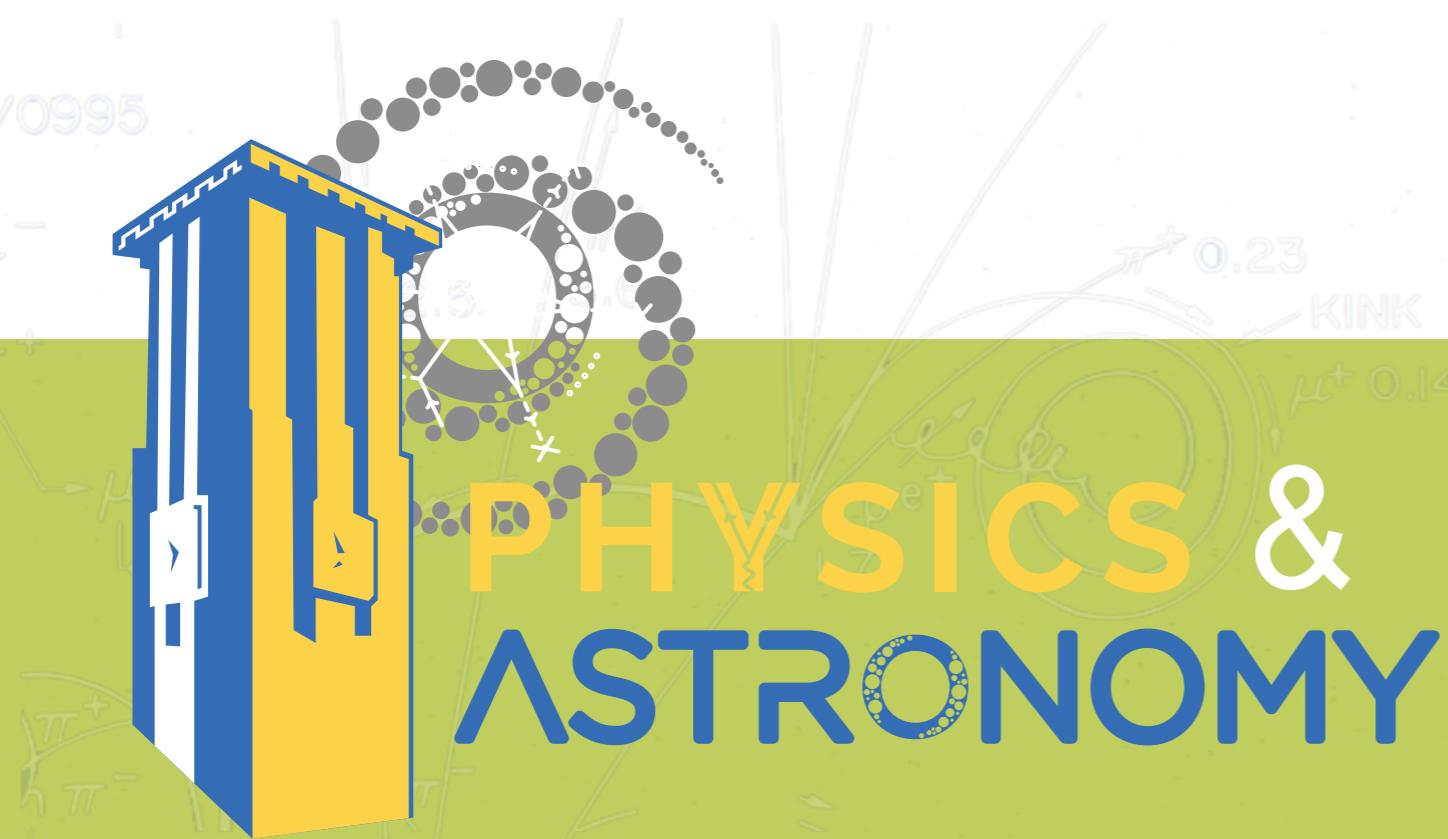


WHAT WE HAVE LEARNED

COLLECTIVE WISDOM OF NOTE CARDS

Flip Tanedo

UC Riverside Particle Theory



flip.tanedo@ucr.edu

PHYSICS 231 (FALL 2018)



7 DEC 2018

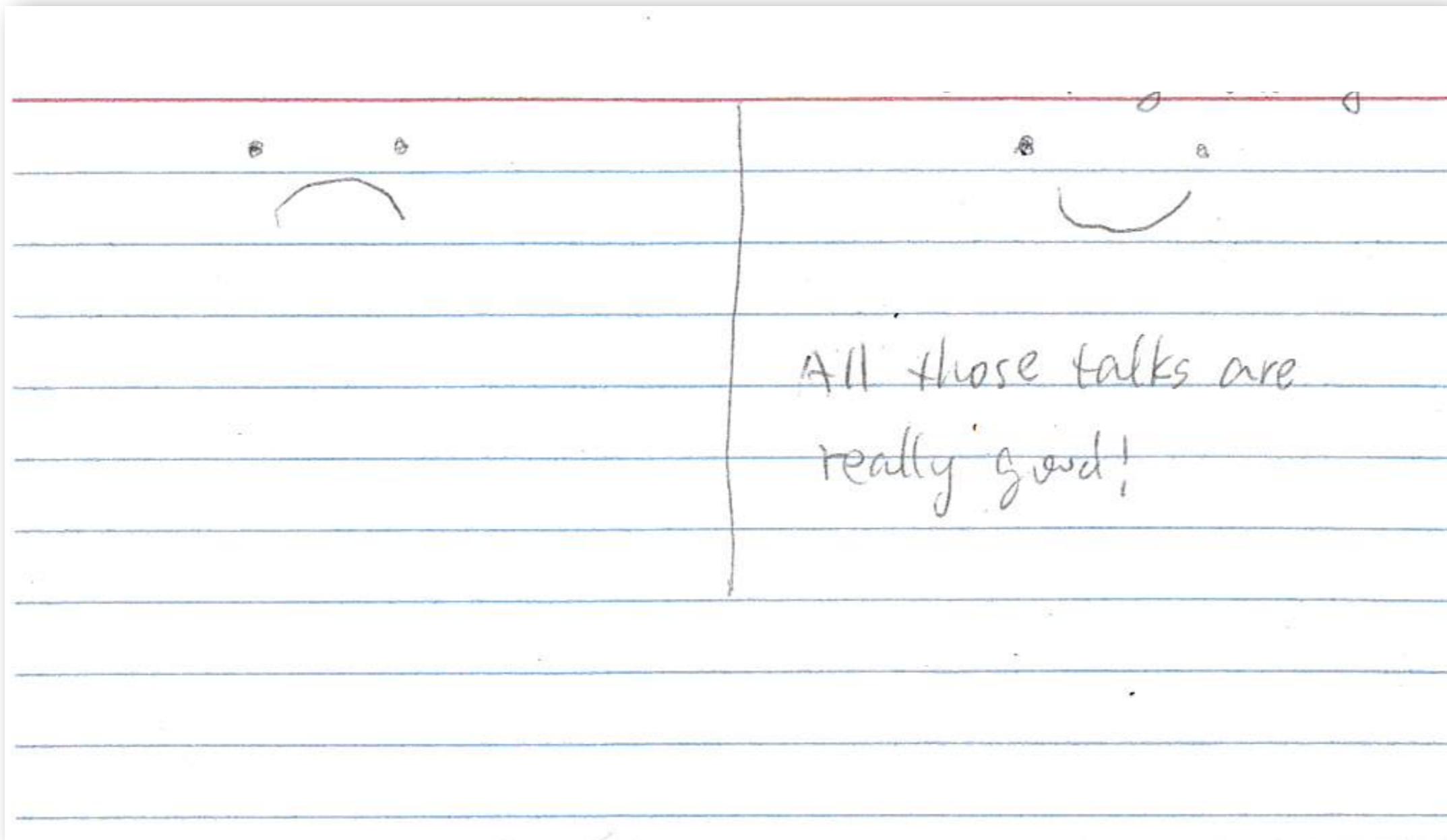
Physics 231 (Fall 2018)
Methods of Theoretical Physics

Instructor summary

I am thoroughly impressed by this cohort.
You have been thoughtful, funny, and good sports.

I've learned a lot from your questions & talks.

... on that note, please remember your iEval. 😊



actual notecard

flip.tanedo@ucr.edu

PHYSICS 231 (FALL 2018)

Why did we do this?

Metacognition learning how you learn

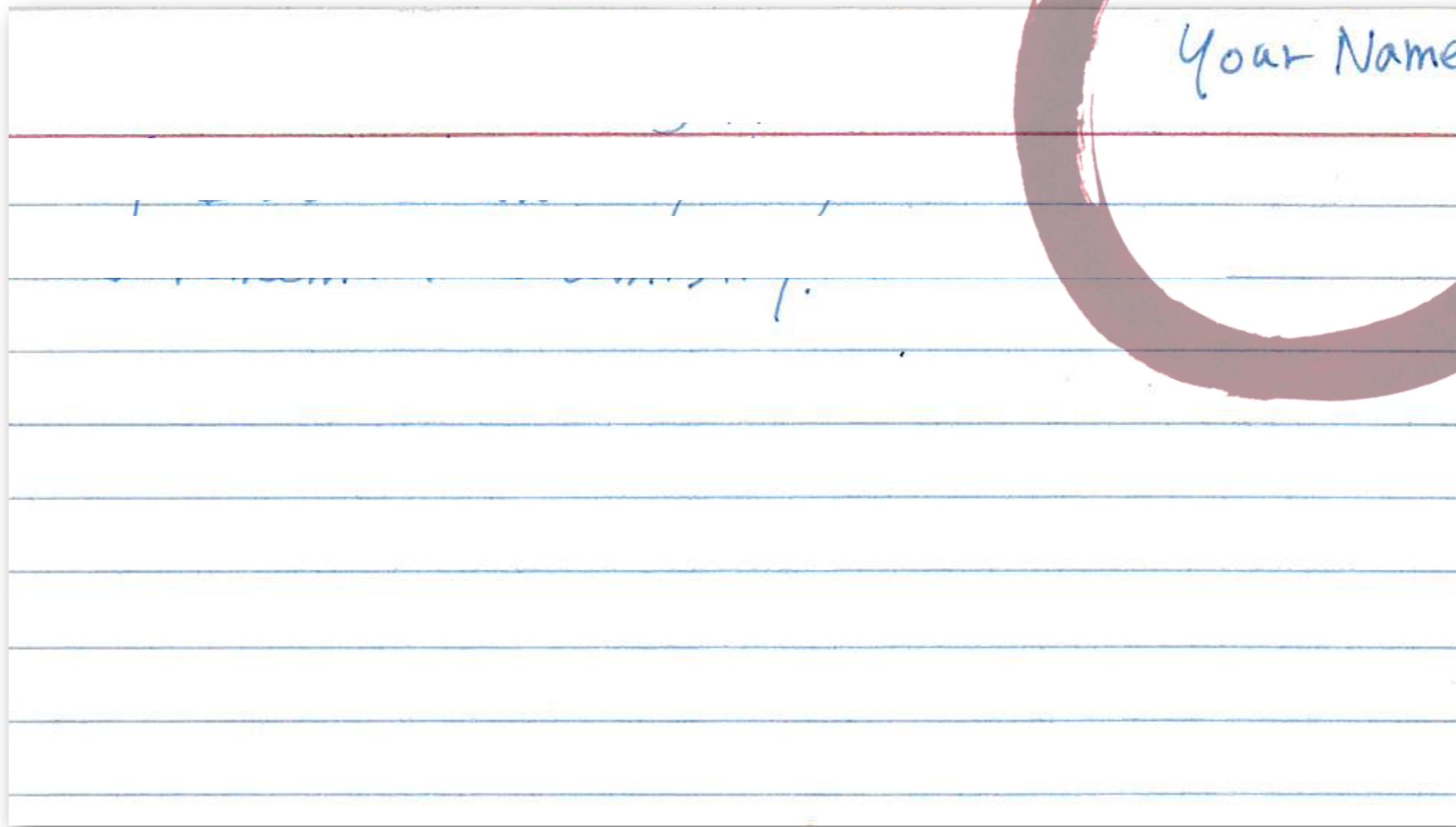
Active engagement

Agency in your ~~education~~ *training*

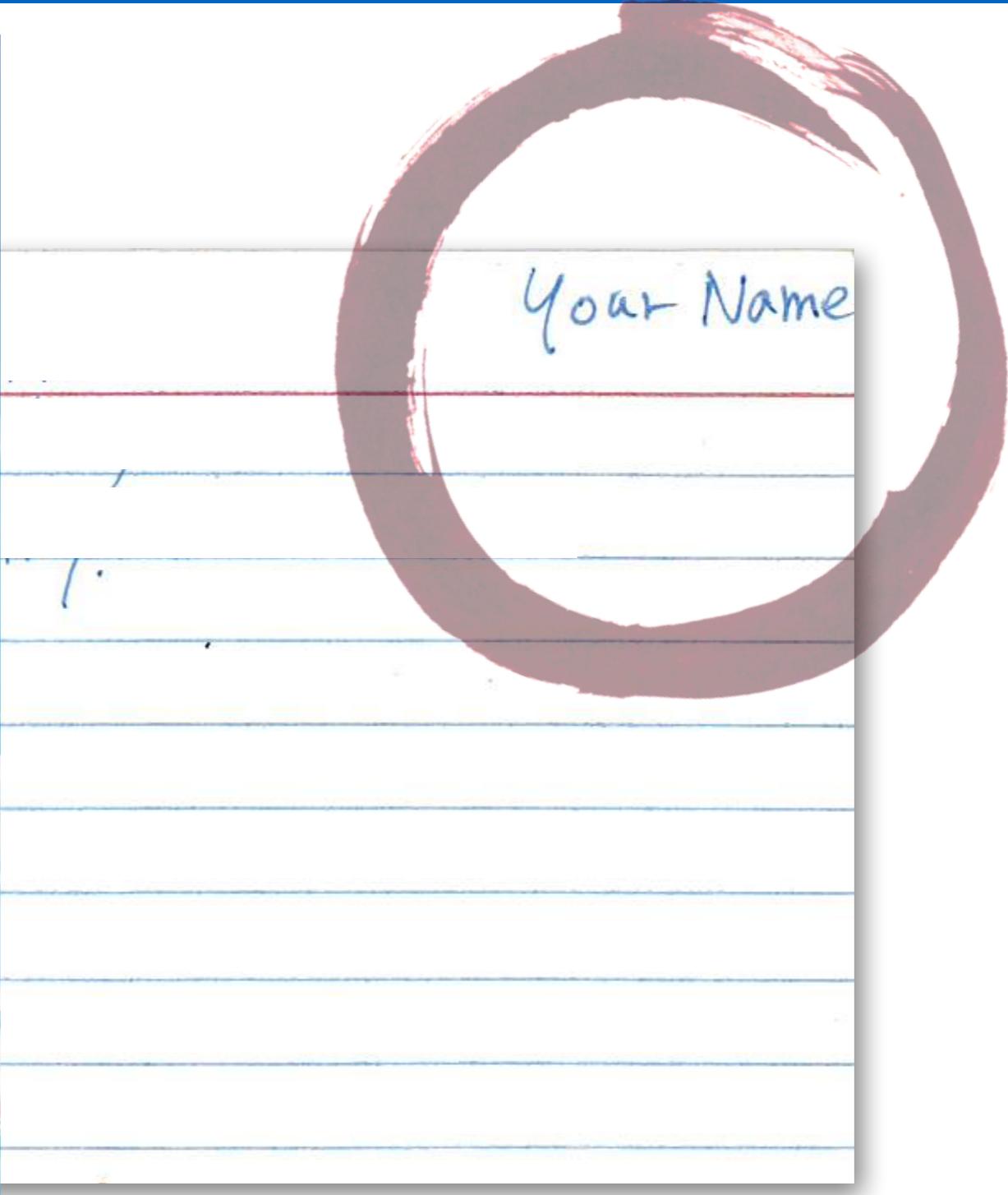
Approach your research career this way

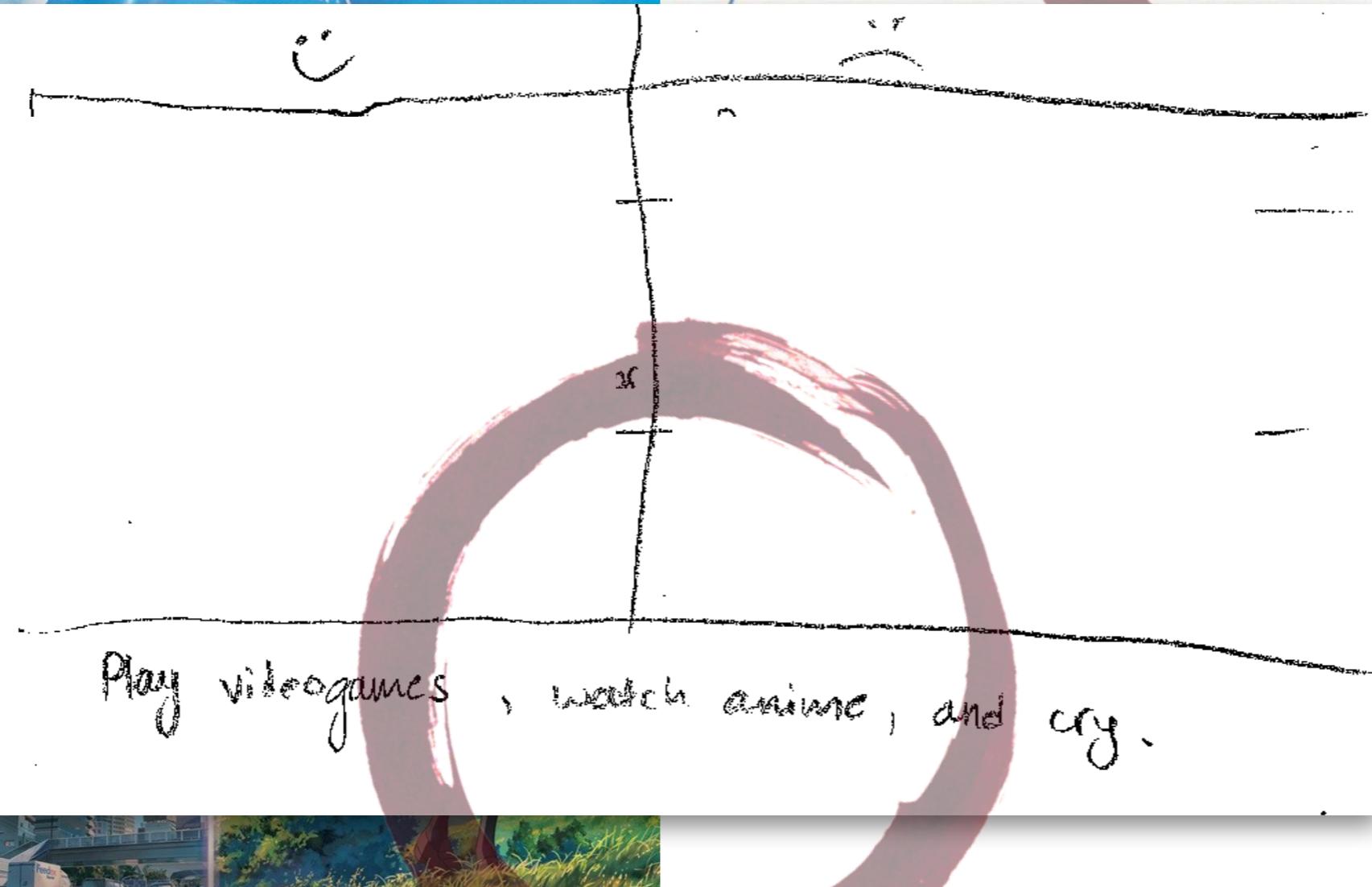
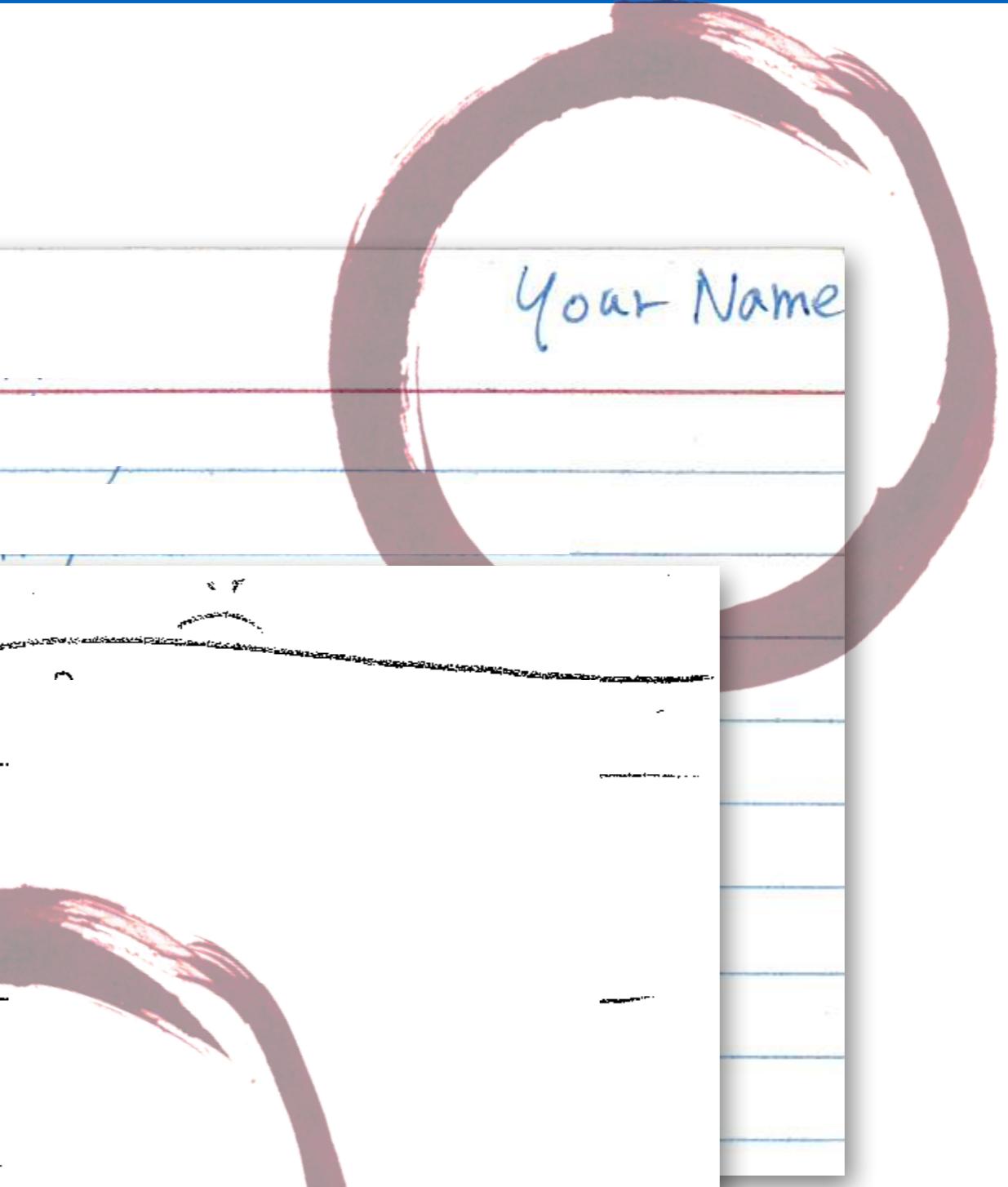
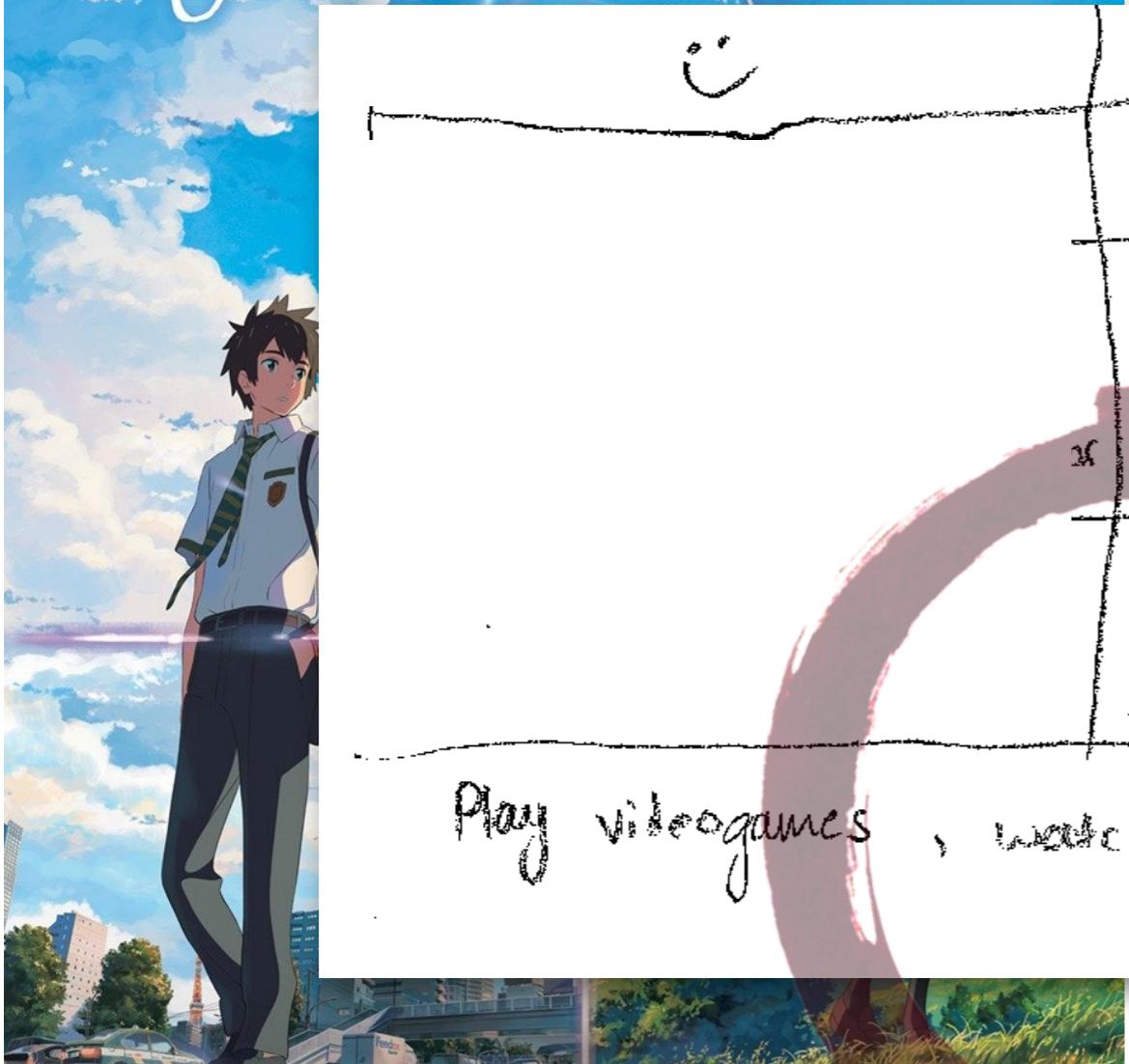
How do you succeed?

Pop-Talk Feedback



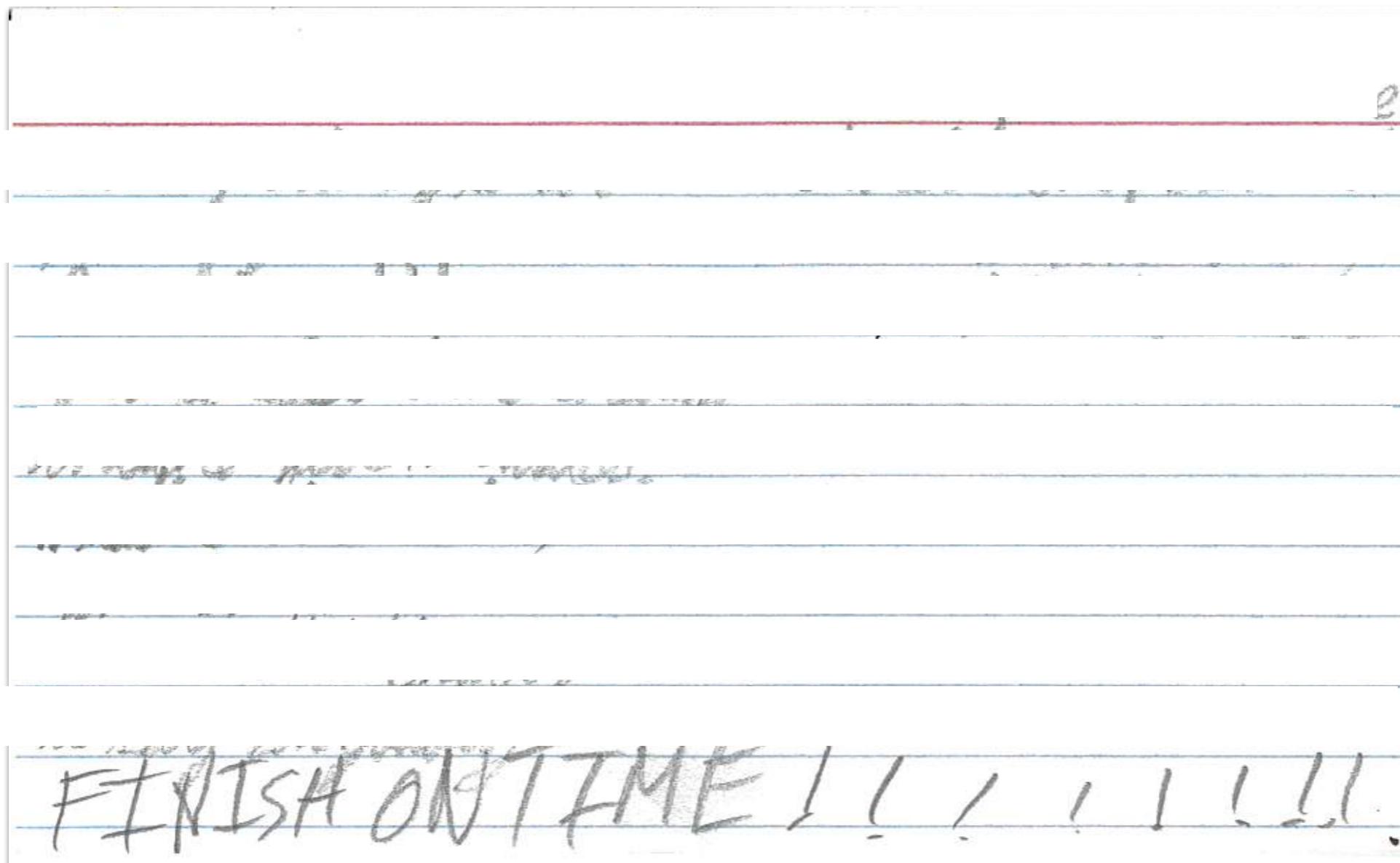
I am tickled by the number of people who did this.





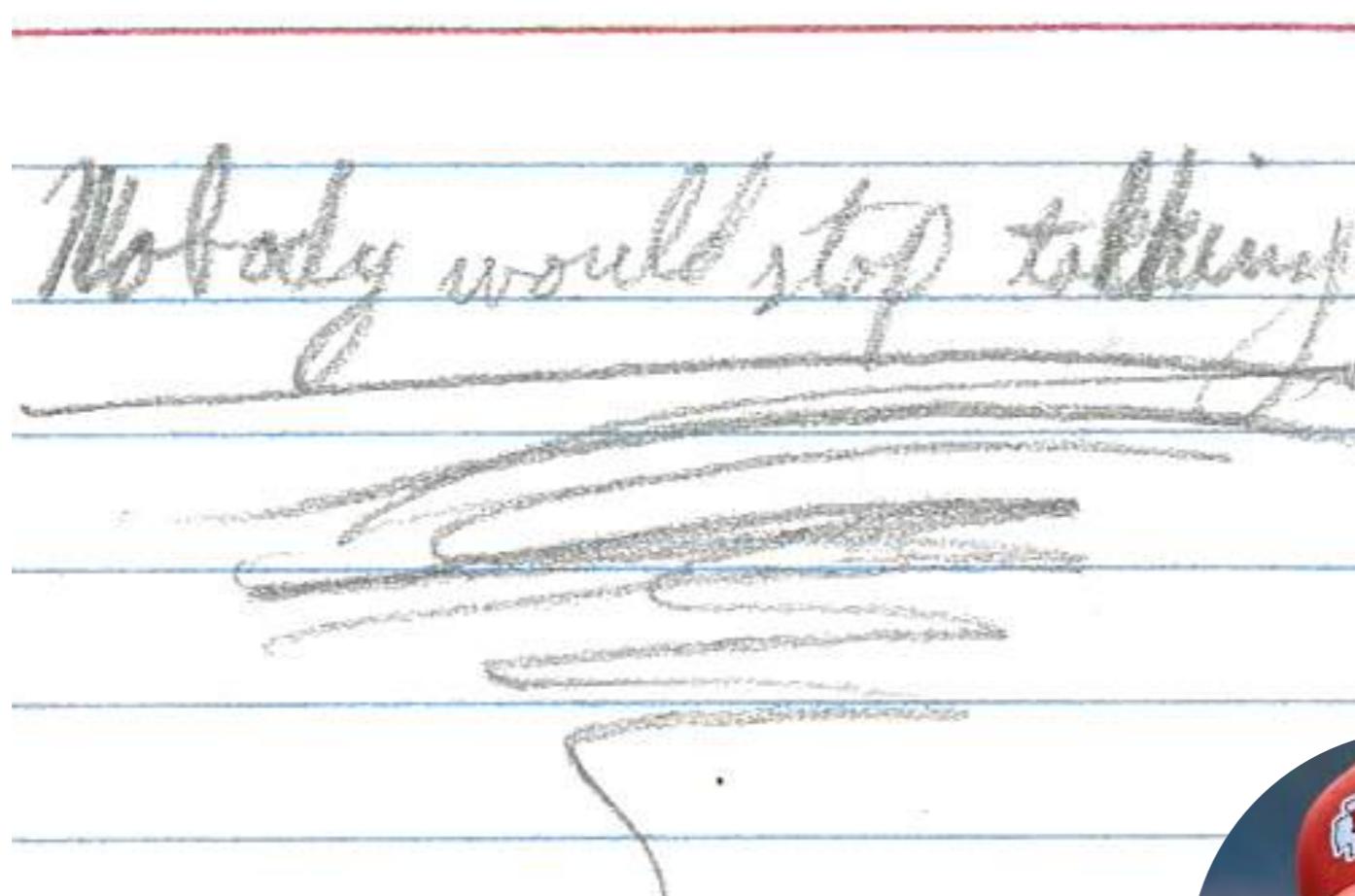
Biggest Collective Lesson

Do not go over time.



Biggest Collective Lesson

Do not go over time.

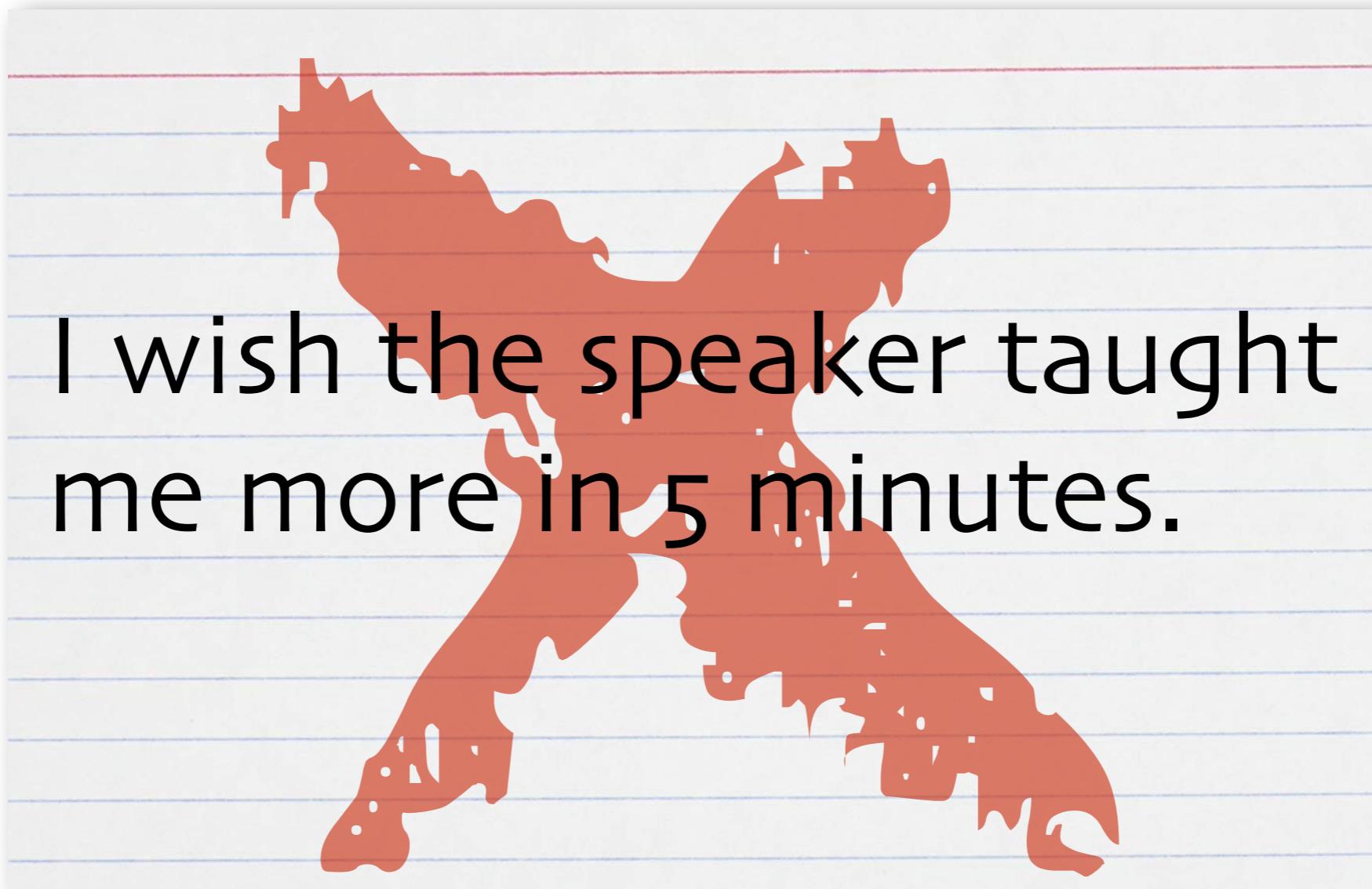


people going way
over their time

Clock management as
bad as Andy Reid



... said no notecard ever



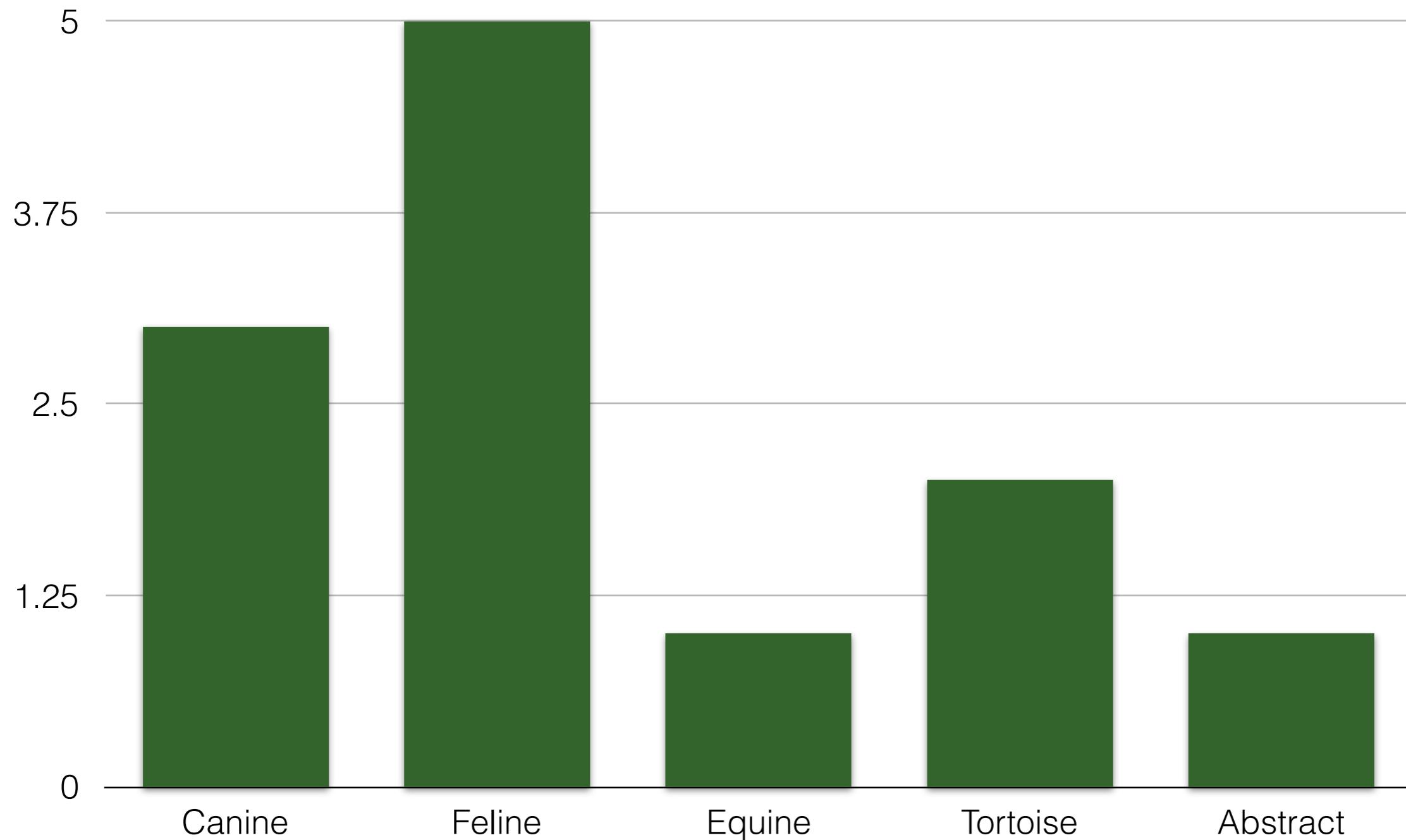
Presenting to the audience

- Make eye contact / **connection**
- Talk to **audience**, not board/notes
- Don't block the board / write small
- **Know** your audience
(background knowledge)
- Be **personable** (& enthusiastic)

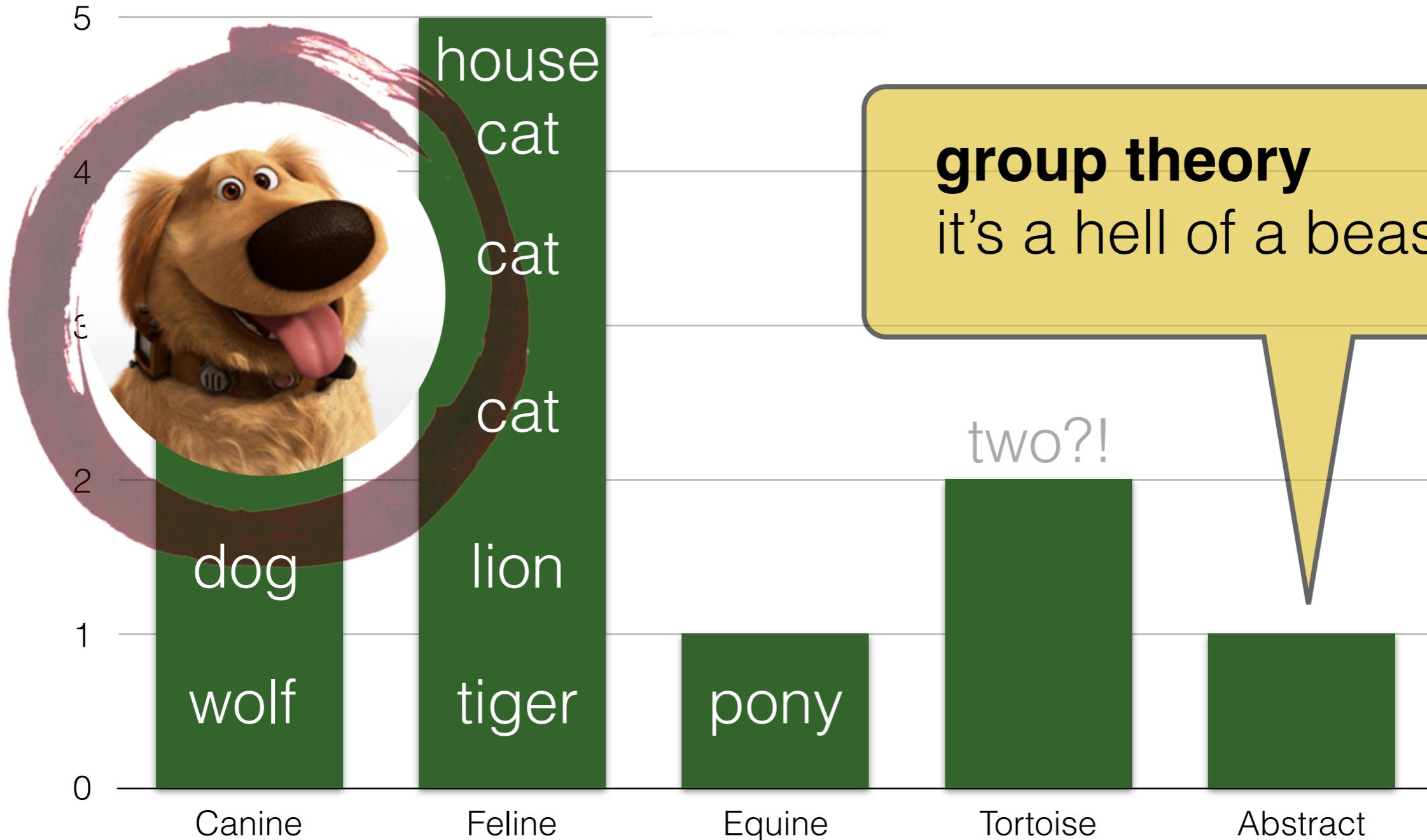
People Liked

- **Visualizations**: graphs, plots
... especially when you label the axes & explain
- **Conclusion** at the beginning
- **Write key points**
- **Creativity**: share a new twist on the idea, insight
- **Examples** / anecdotes
- **Defining your jargon**

Spirit Animal Survey



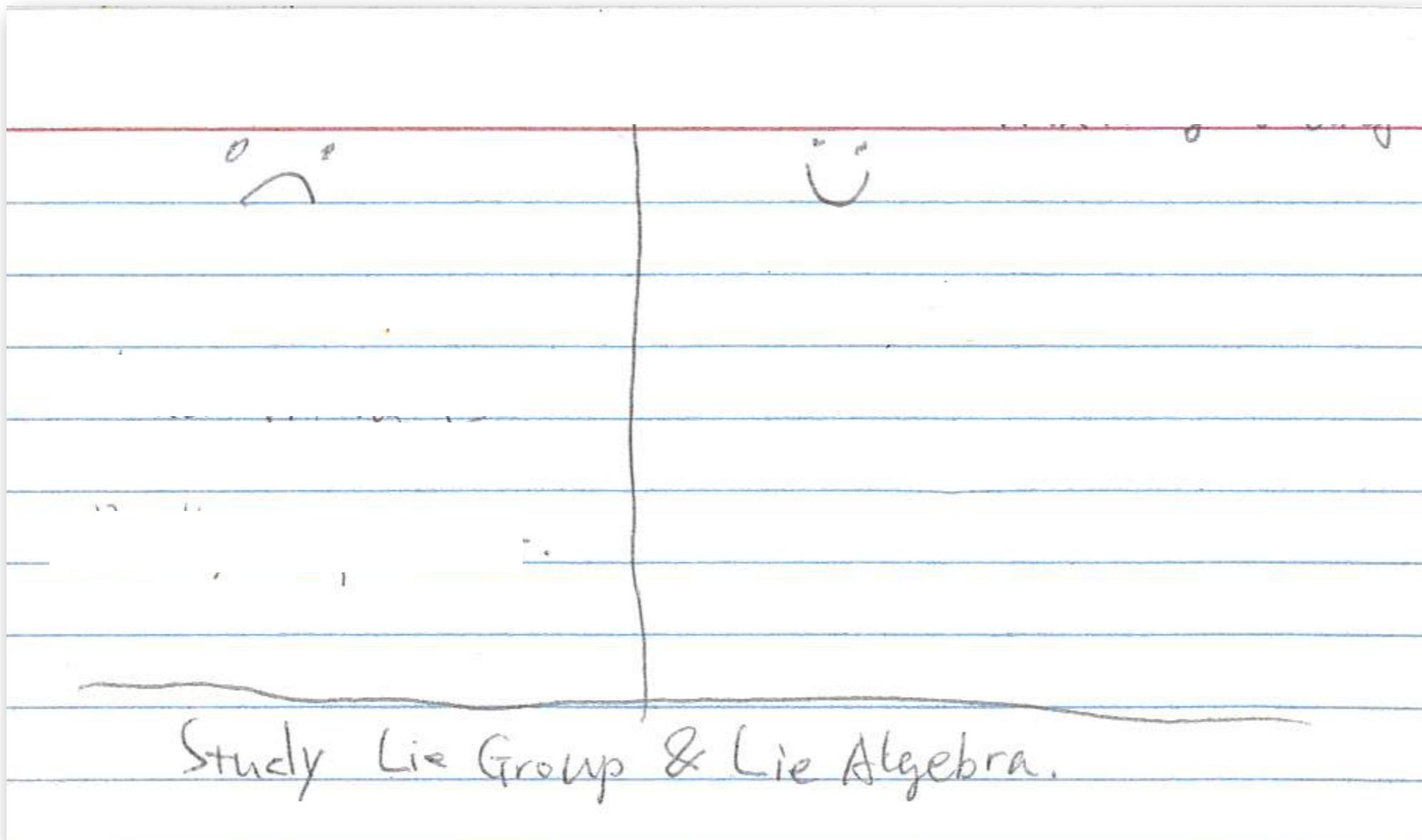
“the dog from *Up*”



Spirit Animal: Cat
I do what I want and
I don't like to leave my house

Group theory... very popular

What fun thing are you doing this winter?



Group theory... very popular

Semi-Simple Lie Algebras and
Their Representations

Robert N. Cahn

Lawrence Berkeley Laboratory
University of California
Berkeley, California



Other weird spirit animals

Spirit animal

I believe my
patronous

on the "Pottermore"

is Buzzard.

Flesh balls for their calming roundness

Beaver/a song bird → flying beaver?

Honorable mention:

Owl,

Snake,

Swallow,

decline for religious reasons

wtf is DF2014?

Winter Break Plans

This winter I'll take up carpentry or something, who knows

Going to D.C. for a 90's themed New Years Party

Suggestion: watch the recent CNN documentary on the 90s (Netflix)

Something fun: sleep

Sleeping is fun

Sledding, sleeping, snowballs

Smash Bros

Winter Break Plans

I now realize that you're not
“driving up the West Coast”

In winter , I'm driving 2500 miles
across east to west coast .



Hearst Castle



Redwoods



Solvang

In addition to: Yosemite, Joshua Tree / Anza Borrego, little beach towns (Pismo Beach, San Luis Obispo, Morro Bay), museums / aquariums (Monterrey, Academy of Science, Exploratorium...)

Winter Break Plans: Local



Mission Inn's
Festival of Lights

1.5 hr away:

Orange County: beach
Palm Springs: desert
Big Bear: mountain

Where to take your parents / dates / etc.:

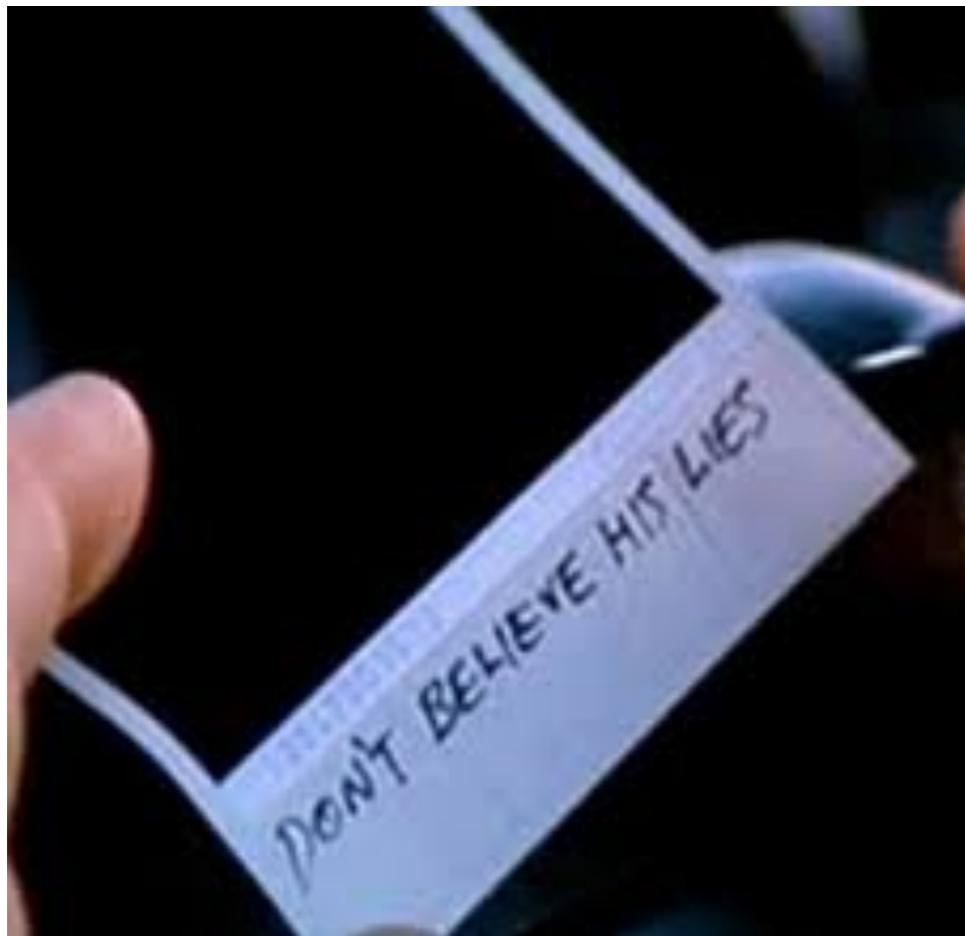
Fancy (\$\$\$): Le Chat Noir

Hip: Riverside Food Lab

Yummy: Salted Pig after 10pm Thu/Fri/Sat

To think about

Something fun	3. Coffee trip?
1. Show:	4. RESEARCH?
2. Research?	



“...our students generally don't choose advisors until the Spring...”

- actual e-mail

Think about this now!

Space heater + extension cord

$$P = I^2 R ; I = \frac{V}{R} \Rightarrow P = \frac{V^2}{R}$$

space heaters have a very low resistance so that they can generate as much power in the circuit as possible, which is given off as thermal energy. Google says most power strips can only handle about 1200 watts, or 15 A of current. Another google result gives an avg. power rating of a space heater as about 3000 watts, nor in other words:

Power level > 9000 = ~~My~~^{that's} supposed to be a flame

The ultimate metric of success

- was not interesting enough to make me stop studying E&M
- was interesting enough to make me stop studying E&M
- was interesting enough to make me mostly stop studying
our slowest interesting enough to make me stop studying E&M

Out of context

Jonathan made me hungry.

sandwich, spaghetti and meatball



• Functions are cool (like bow ties)

These lines are too small
and my pencil's smudging

These lines are too small
and my pencil's smudging

