

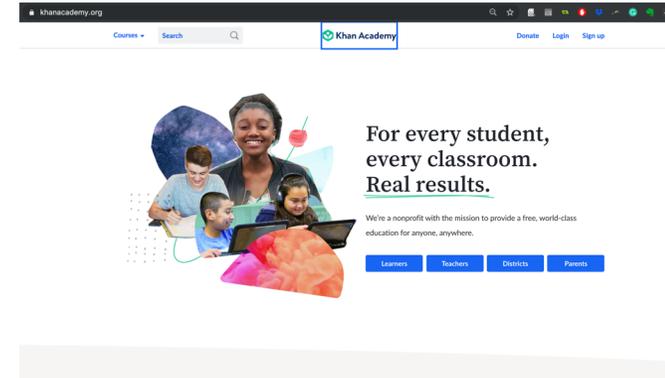
Final Review

Prof. Lydia Chilton
COMS 4170
22 April 2024

The biggest misconception about creativity

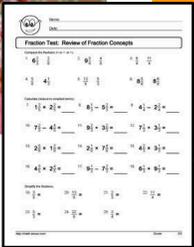


Idea



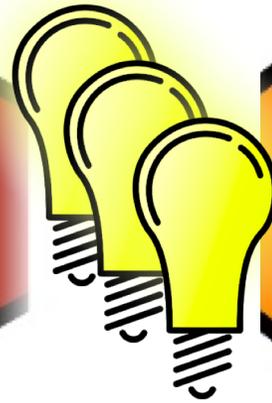
Product

Creativity is a Process



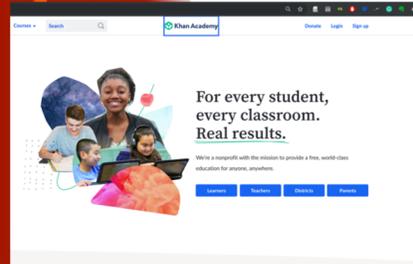
- Brainstorm
- Interview
- Research

Synthesize into insights and ideas



Ideas

- Prototype solutions
- Explore technical options
- Test them



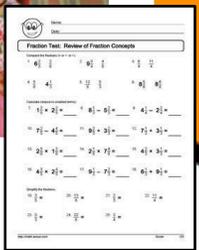
Product

Person with a challenge

Understand the problem

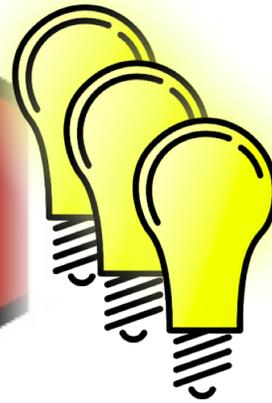
Solve the problem

That process is iterative: Design – Prototype – and Test

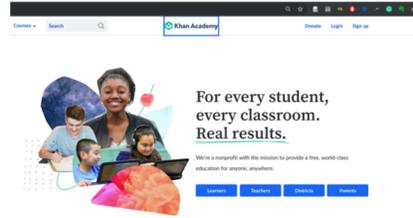
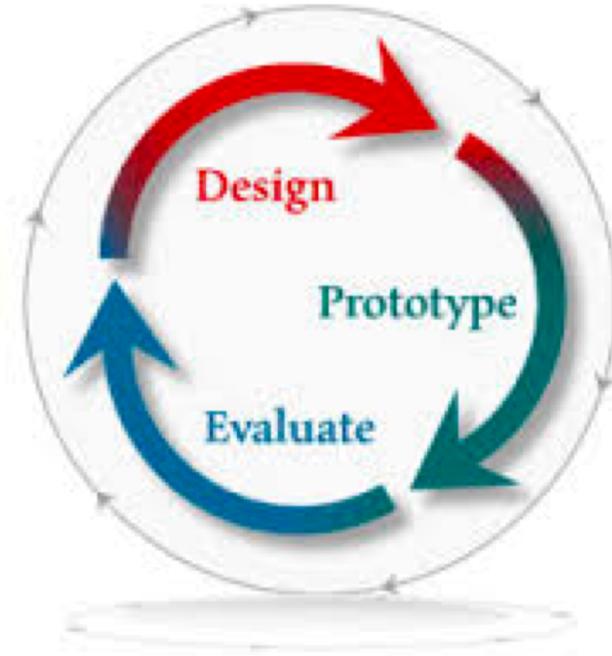


- Brainstorm
- Interview
- Research

Synthesize into insights and ideas



Ideas



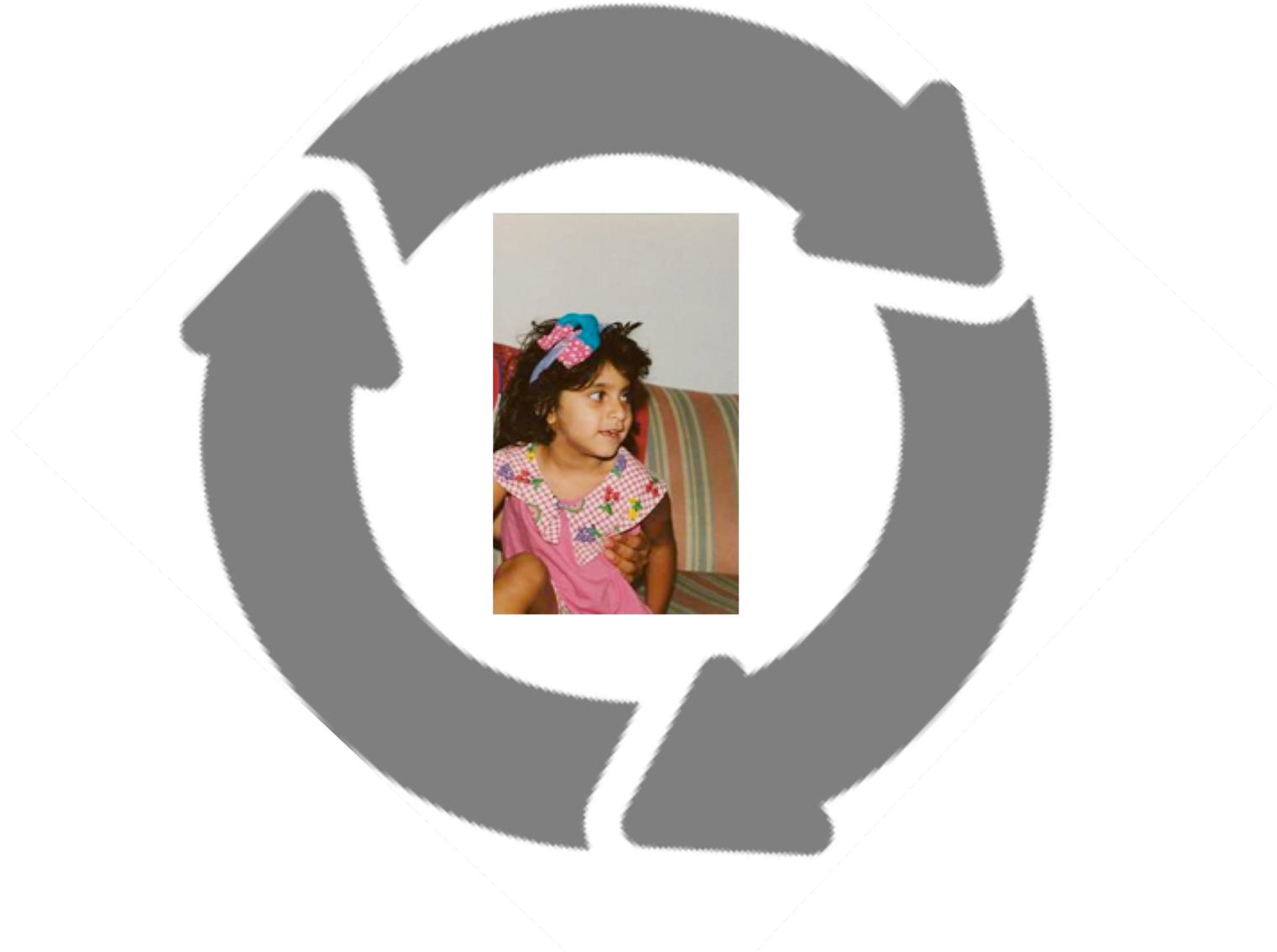
Product

Person with a challenge

Understand the problem

Solve the problem

The **user** is at the center of the process



Final Project:

- Design and build a **web** application
- To help a user learn an introductory topic **interactively**
- Within a **domain of your choosing**
- The interactive experience centers around **media** (image, video, audio..)
- And help them assess their learning with a **quiz**.
- And keep learning through **feedback** from the quiz.
- In under **10 minutes** total

Final Project Deliverable:

A demo video from the user perspective.

- A narrated YouTube video with a simulated user experience.
- “Show don’t tell”
- Let’s see two examples.

The video philosophy is “show don’t tell”

- Don’t explain what your app is (beyond 1 sentence about the goal), just show us.
- We **don’t** want to hear things like:
 - *“We’re democratizing lip reading”* -> just show the app
 - *“We use interactive lessons and quizzes to help you assess your learning”* -> just show the app.
 - *“Learn to lip read in under 10 minutes!”* -> just show the app.
- This is not a pitch deck. If you want to make a pitch deck for your project and submit to YC, I can help you with that after the class is over.

Demo video checklist.

- Then start using the app exactly as you intend a user to. As you go through every screen, think out loud.
 - **Read aloud** everything that a real user would read.
 - **Think aloud** everything a real user would think.
 - **Click** everything a real user would click (and other interactions)
 - **Express the emotions** a real user would feel.
 - **Make mistakes** that a real user would make (on hard questions).
 - You must have at least one point where the user makes a mistake (and recovers from it) in the learning or quiz.
- The demo should last 8-12 minutes. Any more or less, and major deductions will be taken.
- Every team member must turn in their own video with their own inaction and narration from the user perspective.
- Let's see two examples (and evaluate them on the checklist)

Welcome to **Lipreading**, your site for learning to read lips! Use the navbar above or click the button below to learn the how to lipread different sounds. When you're ready, try a test!

[Start With B](#)

Lipreading checklist

- Then start using the app exactly as you intend a user to. As you go through every screen, think out loud.
- ✓ • **Read aloud** everything that a real user would read.
- ✓ • **Think aloud** everything a real user would think.
- ✓ • **Click** everything a real user would click (and other interactions)
- ✓ • **Express the emotions** a real user would feel.
- ✓ • **Make mistakes** that a real user would make (on hard questions).
 - You must have at least one point where the user makes a mistake (and recovers from it) in the learning or quiz.
- ✗ • The demo must last 8-12 minutes.

Only 7 minutes – too fast!

(Post) Impressionism

[Home](#) [Art Movements](#) [Comparison](#) [Quiz](#)

Welcome to [\(Post\) Impressionism](#).

The goal of this site is to help you **distinguish between two major art movements**, Impressionism and Post-Impressionism. Start by exploring each movement's defining features and artwork. After that, take our short quiz to test your knowledge!

Explore the Art
Movements



(Post) Impressionism checklist

- Then start using the app exactly as you intend a user to. As you go through every screen, think out loud.

Skipped reading in
the learning phase

- ✘ • **Read aloud** everything that a real user would read.
- ✔ • **Think aloud** everything a real user would think.
- ✔ • **Click** everything a real user would click (and other interactions)
- ✔ • **Express the emotions** a real user would feel.
- ✔ • **Make mistakes** that a real user would make (on hard questions).
 - You must have at least one point where the user makes a mistake (and recovers from it) in the learning or quiz.
- ✔ • The demo must last 8-12 minutes.

Your video will be graded on two things:

- **Did it meet the project requirements?**
 - Teach a topic interactively and allow users to access themselves with a quiz.
- **Did you iterate based on feedback to make a high quality, user-centered product?**
 - Idea
 - Content Design (stuff from google doc prototypes)
 - Clear navigation
 - No walls of text!
 - Technical Implementation
 - Quality of the interactive elements
 - Graphic Design and Usability

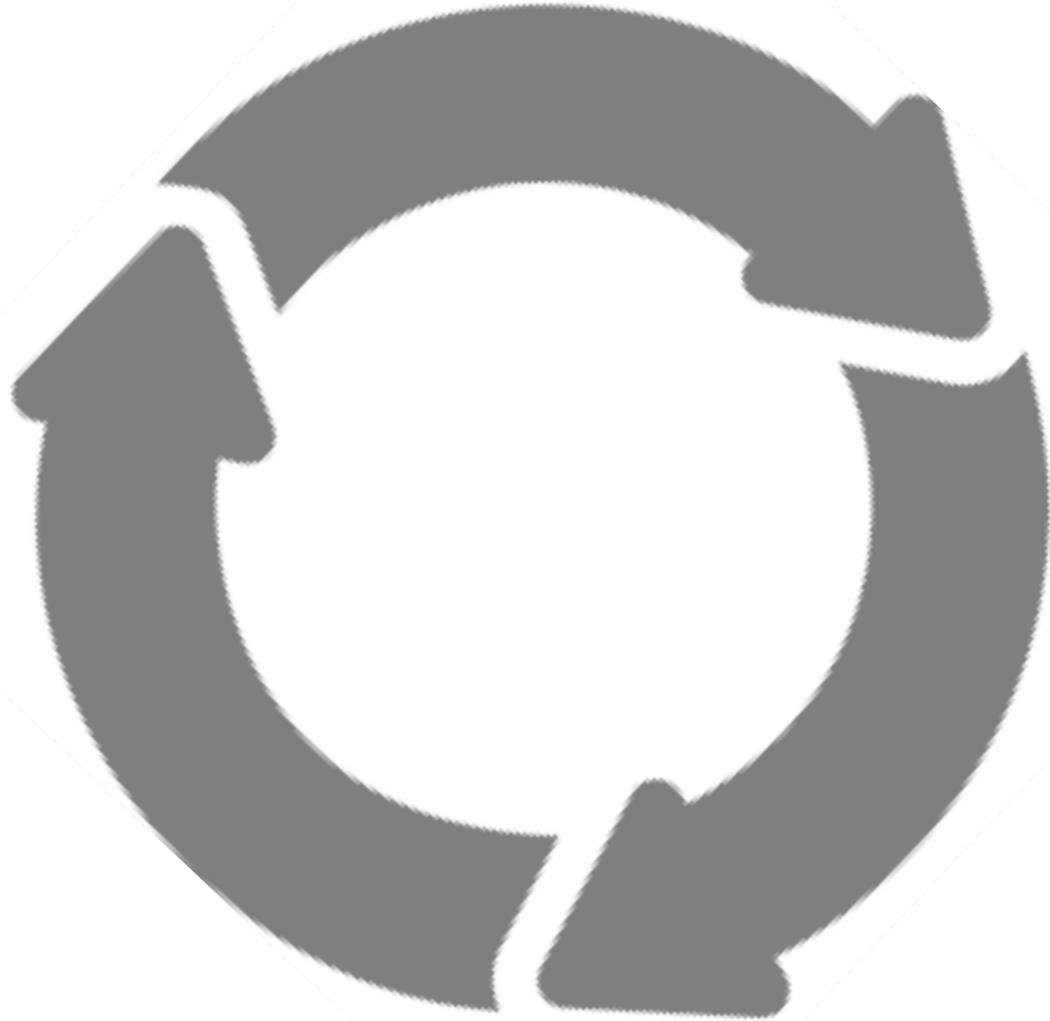
Teamwork with Individual videos.

- Ultimately, you are graded individually based on solely on whether the final deliverable meets the expectations of the project.
- **Everyone turns in their own video with their own narration**
- This means that if you haven't seen one of your teammates since HW9, and they're assigned to do X, you are still responsible for X.
- If you are having trouble reaching a teammate or schedules aren't lining up, let your TA know.

1. Get started



2. Plan for iteration

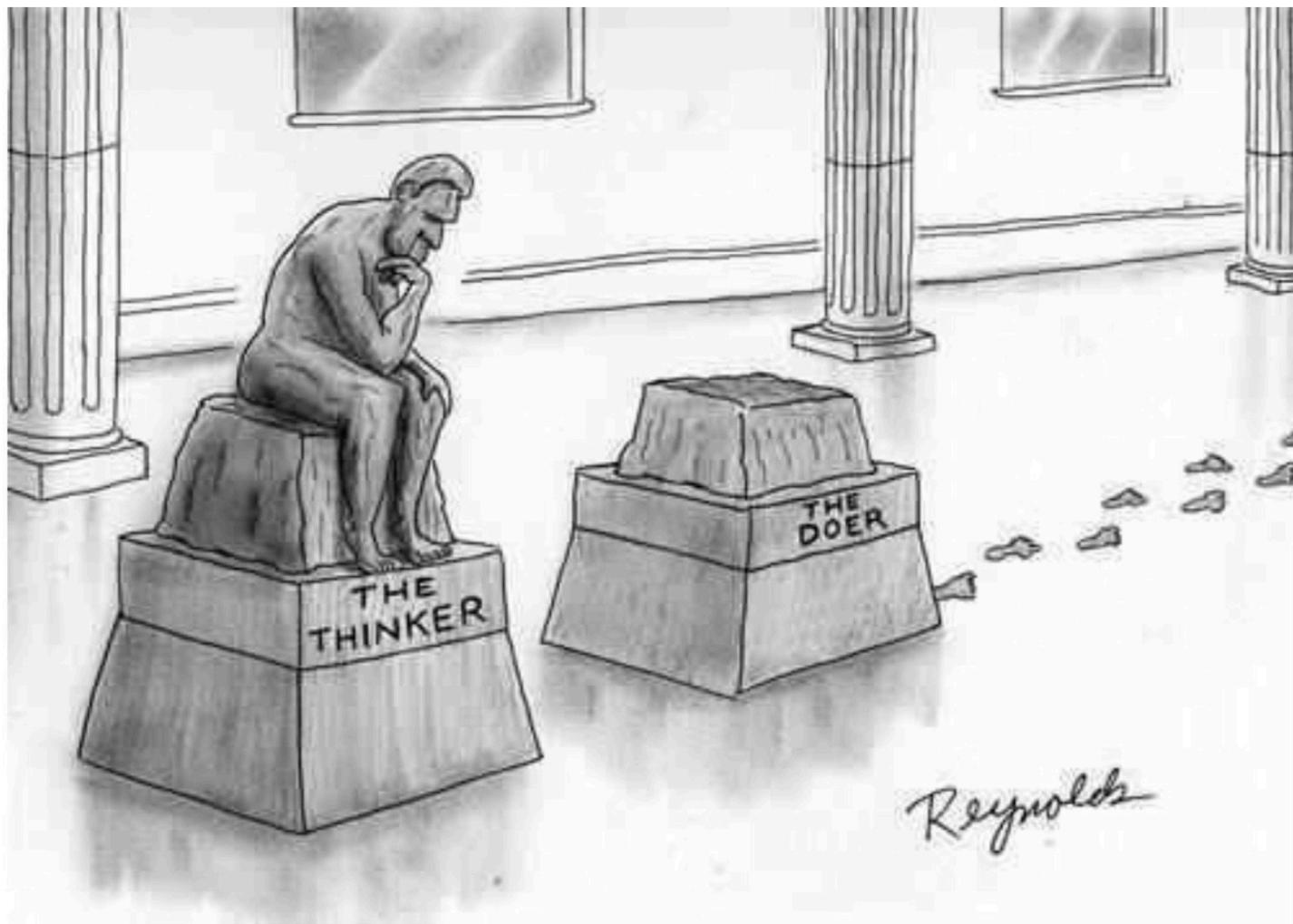


3. Keep the user at the center of the process



1. Get started

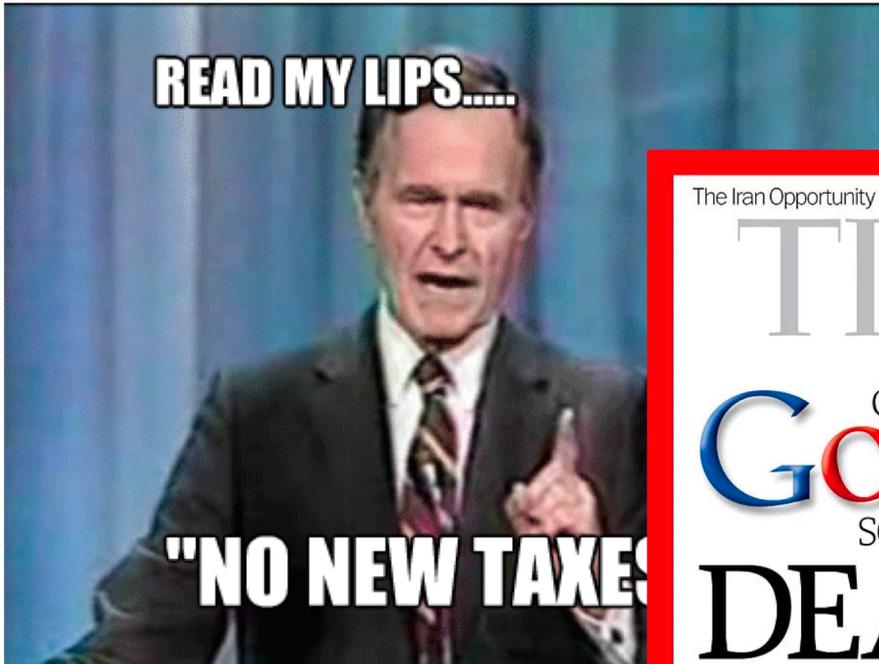




We all have ideas, dreams, thoughts.
Most stay in our heads.
Challenge yourself act on it.

Discover if it is something great, or something you
should move on from.

What's the trap of grand, general goals?



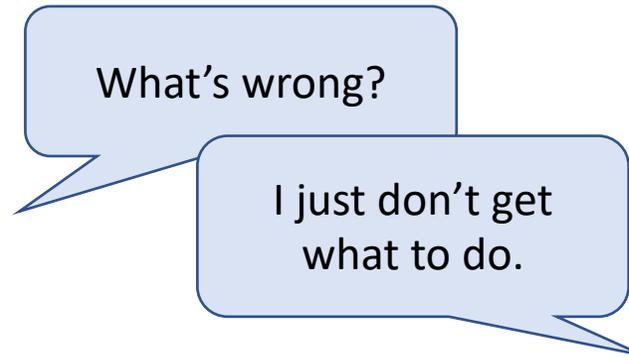
They aren't actionable.

How to get started

Find a user



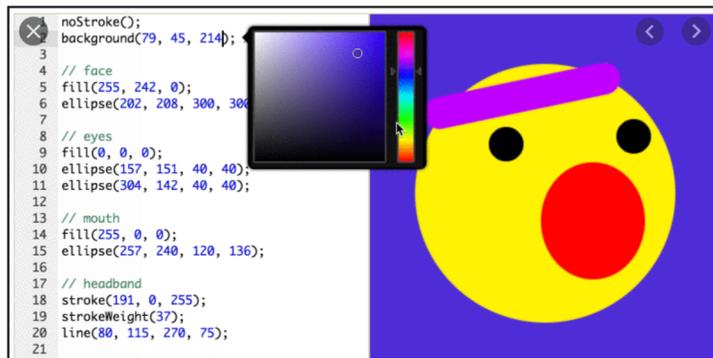
Interview someone



Prototype it



Competitor Research



Break it down



Talk to users

- Don't expect users to tell you what they need.
- Ask users tell you about their experiences, their thoughts, their feelings.
- You synthesize it into ideas that you bring back to them.
- Try Co-design. If users have the time and interest, include them in the design process.
 - Anyone can build a Google Doc prototype, or draw on a piece of paper.

If you ask “What are your problems?” you get things like this.

I hate homework

I hate taxes

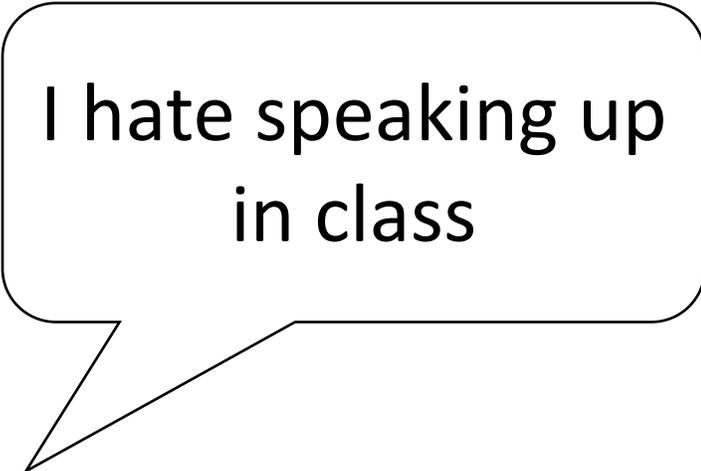
I hate speaking up in class

I hate eating vegetables

I hate my cell phone carrier

These answers doesn't provide us with the details we need to understand the problem.

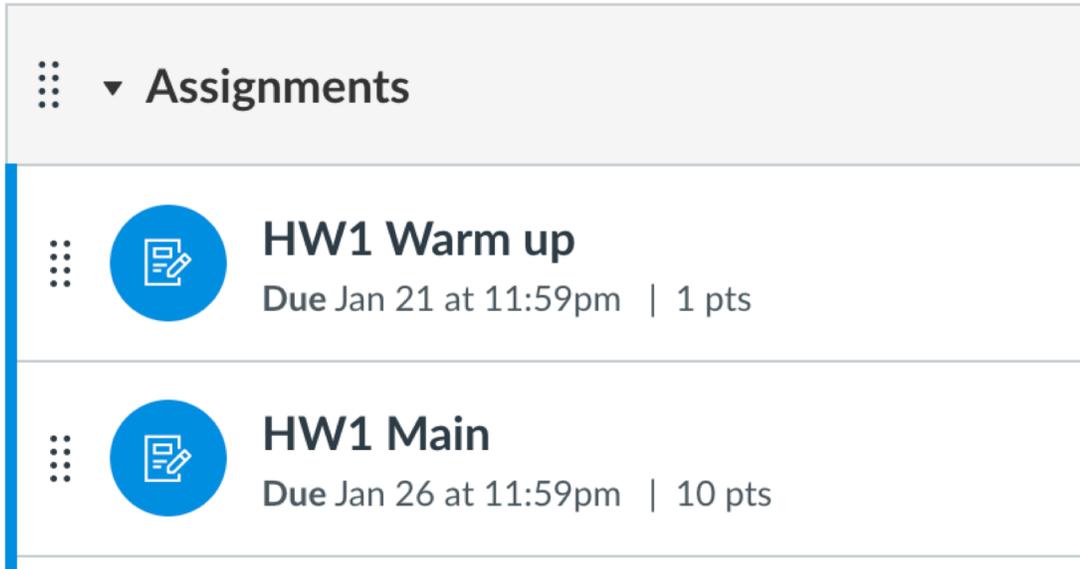
To find insights and opportunities to help users,
we need to dig into the details of their experience.



I hate speaking up
in class

What's the experience of
speaking up in class?

The warm ups were an effort to get started on assignments

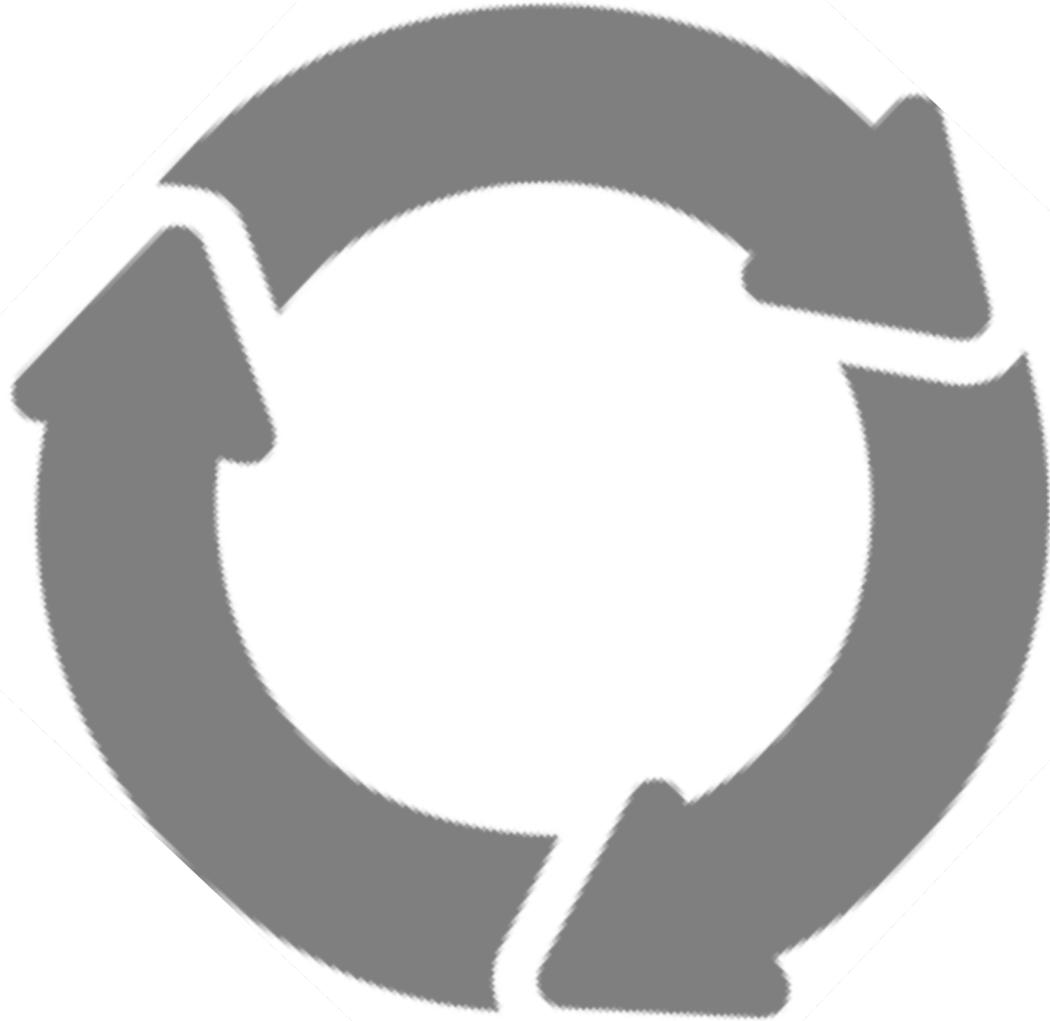


The screenshot shows a list of assignments under the heading "Assignments". There are two items listed: "HW1 Warm up" and "HW1 Main". Each item includes a blue circular icon with a document and pencil, the assignment name, the due date and time, and the number of points.

Assignment Name	Due Date/Time	Points
HW1 Warm up	Due Jan 21 at 11:59pm	1 pts
HW1 Main	Due Jan 26 at 11:59pm	10 pts

“Annoying but often useful.”

2. Plan for iteration

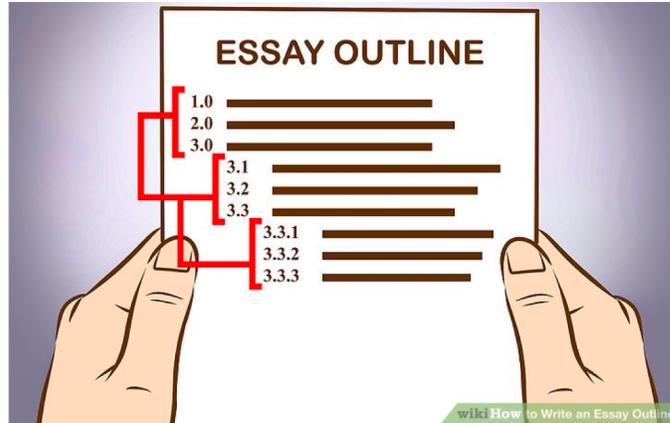


Pixar starts with a storyboard to test coherency



Other domains with low-fi prototypes to explore ideas and iterate.

Essays: outlines



Acting: Table reads



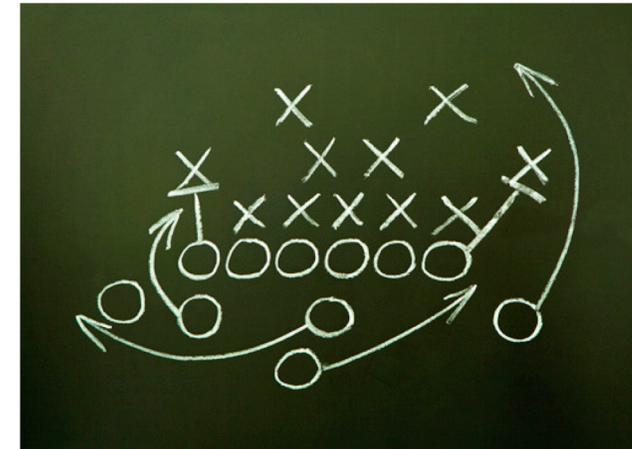
Painting: Sketches



Fashion: Sketches



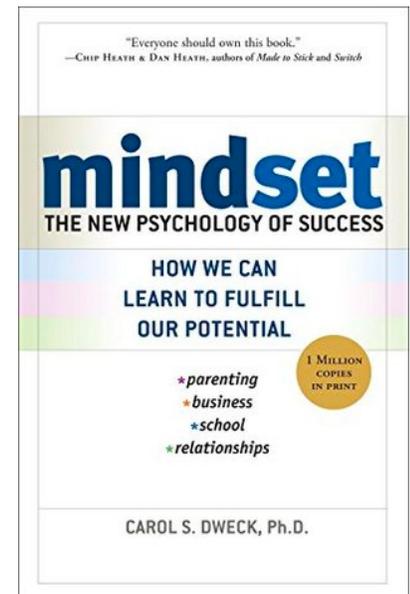
Sports: Diagram "plays"



Why do we need to iterate?

~~Because design is hard and you're stupid~~

Because design solutions are unknown,
and you need to explore options.



Plan for iterations of your video.

Iteration 1

- **Just get started.**
- It will be terrible, but now you have something to start from.

Iteration 2

- **Less terrible.**
- Possibly has basic structure
- Smoothed out some local issues.
- Probably has some distracting problems on the details

Iteration 3

- **Viewer can get the basic ideas**
- Coherent story.
- No distracting errors
- Not perfect!

Iteration 4

TA feedback: nailing the important details.
(or finding out you're off base)

3. Keep the user at the center of the process



Starting with a specific person and problem allows you to understand the problem and test various solutions.



Math test paper titled "Fraction Test: Review of Fraction Concepts".

Compare the fractions (or $= >$):

1. $6\frac{10}{12}$ vs $6\frac{11}{12}$ 2. $9\frac{3}{4}$ vs $8\frac{6}{8}$ 3. $\frac{8}{8}$ vs $\frac{11}{12}$

4. $\frac{6}{10}$ vs $4\frac{1}{10}$ 5. $\frac{12}{18}$ vs $\frac{6}{9}$ 6. $8\frac{5}{10}$ vs $8\frac{6}{9}$

Calculate (reduce to smallest terms):

7. $1\frac{1}{2} \times 2\frac{2}{3} =$ 8. $8\frac{1}{2} - 5\frac{2}{3} =$ 9. $4\frac{1}{4} - 2\frac{2}{4} =$

10. $7\frac{2}{3} - 4\frac{4}{6} =$ 11. $9\frac{1}{3} + 3\frac{2}{3} =$ 12. $7\frac{1}{3} + 3\frac{1}{3} =$

13. $2\frac{5}{12} \times 1\frac{2}{3} =$ 14. $2\frac{1}{3} \times 7\frac{1}{3} =$ 15. $4\frac{2}{3} \times 3\frac{1}{3} =$

16. $4\frac{3}{4} \times 2\frac{1}{4} =$ 17. $9\frac{1}{3} - 7\frac{2}{3} =$ 18. $6\frac{1}{3} + 9\frac{1}{3} =$

Simplify the Fractions:

19. $\frac{12}{18} =$ 20. $\frac{13}{18} =$ 21. $\frac{12}{18} =$ 22. $\frac{11}{14} =$

23. $\frac{12}{18} =$ 24. $\frac{22}{18} =$ 25. $\frac{12}{18} =$

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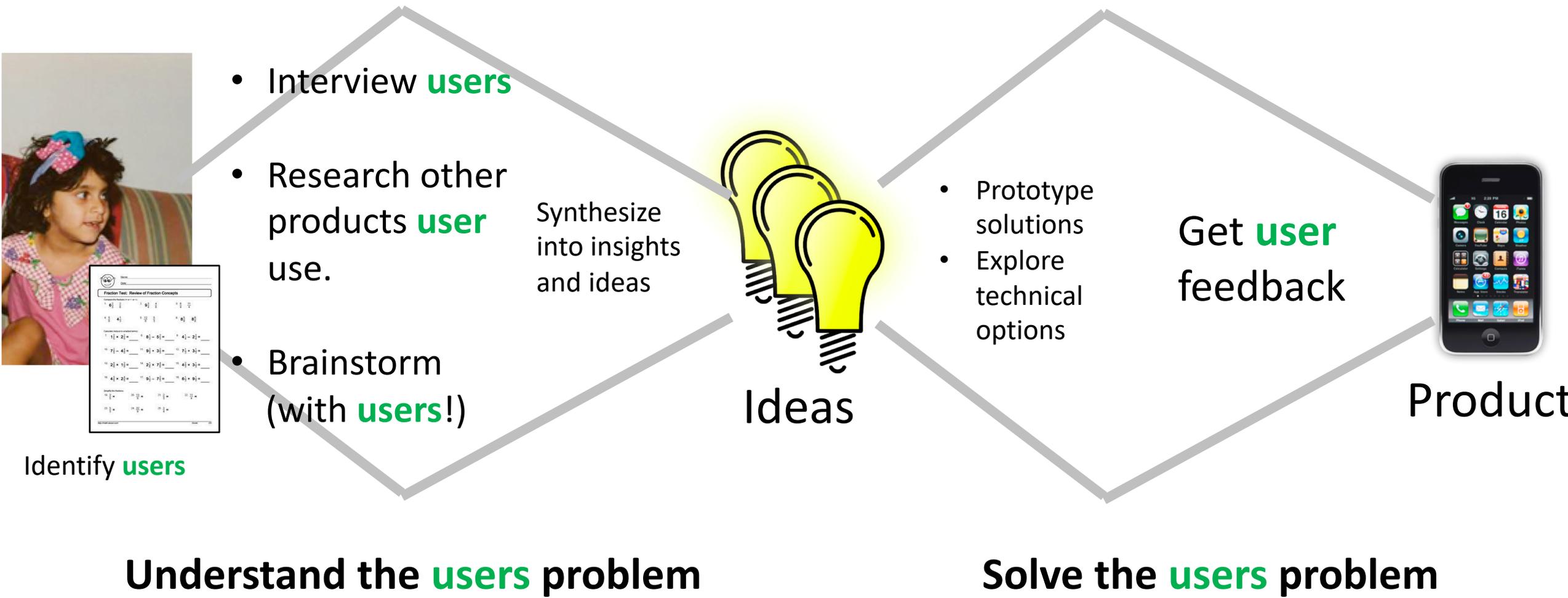


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every classroom.
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We're a nonprofit with the mission to provide a free, world-class education for anyone, anywhere.

- Learners
- Teachers
- Districts
- Parents

The Human-Centered Design Process



Examples from my students

Example 1: Courshedog

Justin made an app for students to pick classes that don't conflict

Course Planner		Fall	Winter	Spring
Sophomore	PE 080A	Ec 011	Hum/PI 008	APh/EE 009B
	Health Advocates	APh/EE 009A	Ph 008B	Ge 001
	1-1-1	PE 099	PE 087B	
	Stapf	Units:42	Units:42	Units:39
	Fall	PE 099	Hum/H 003B	Bi 001
		Ma 002	Ma 003	PI/HPS 183
		Ph 002A	Ph 002B	Ph 002C
		EE 044	EE 045	EE 040
		EE/CS 051	EE/CS 052A	EE/CS 052B
		Units:45	Units:48	Units:42
Junior	PE 099	ACM 095A	ACM 095B	
	EE 111	P/S 141A	EE 151	
	EE/MedE 124	EE 001	EE 090	
	PE 080A	EE 112	En 128	

Nobody adopted it.

Students wouldn't pay for it.

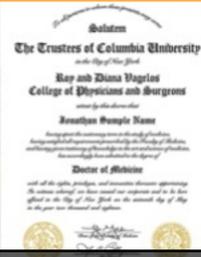
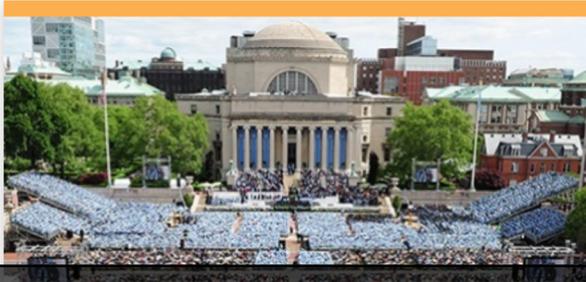
It's not a big enough need.

Interviews: What is peoples experience with scheduling?

Columbia University in the City of New York

OFFICE OF THE UNIVERSITY REGISTRAR

Related Services for Students



ELECTRONIC DIPLOMAS

The Office of the University Registrar now provides an Electronic Diploma to graduates beginning February, 2018.

The registrar needs help with scheduling, not students.
And they are willing to pay for it.

Contact Us

Student Service Center

Location: 205 Kent Hall

Email:

registrar@columbia.edu

Website: ssc.columbia.edu



Coursedog

August 2017
We Welcome our first Partners.



December 2018
Seed-funded and California-bound!
After closing seed funding led by Y Combinator and Ebay CEO Devin Wenig, the team heads out to California for 3 months.

2018 - 2019

Coursedog launches catalog, curriculum and event management solutions.

Coursedog signs on 62 new schools of all shapes & sizes in one year.



Early 2019
Coursedog raises \$5.7M

[See us featured in TechCrunch](#)

Trusted by over **100 Higher Education** institutions that serve over **1 million students**

Coursedog Raises \$17M to Break Down Barriers in Higher Education

[coursedog.com](#)

Coursedog Class Scheduler Event Scheduler Catalog Curriculum Services Resources [Schedule Demo](#)

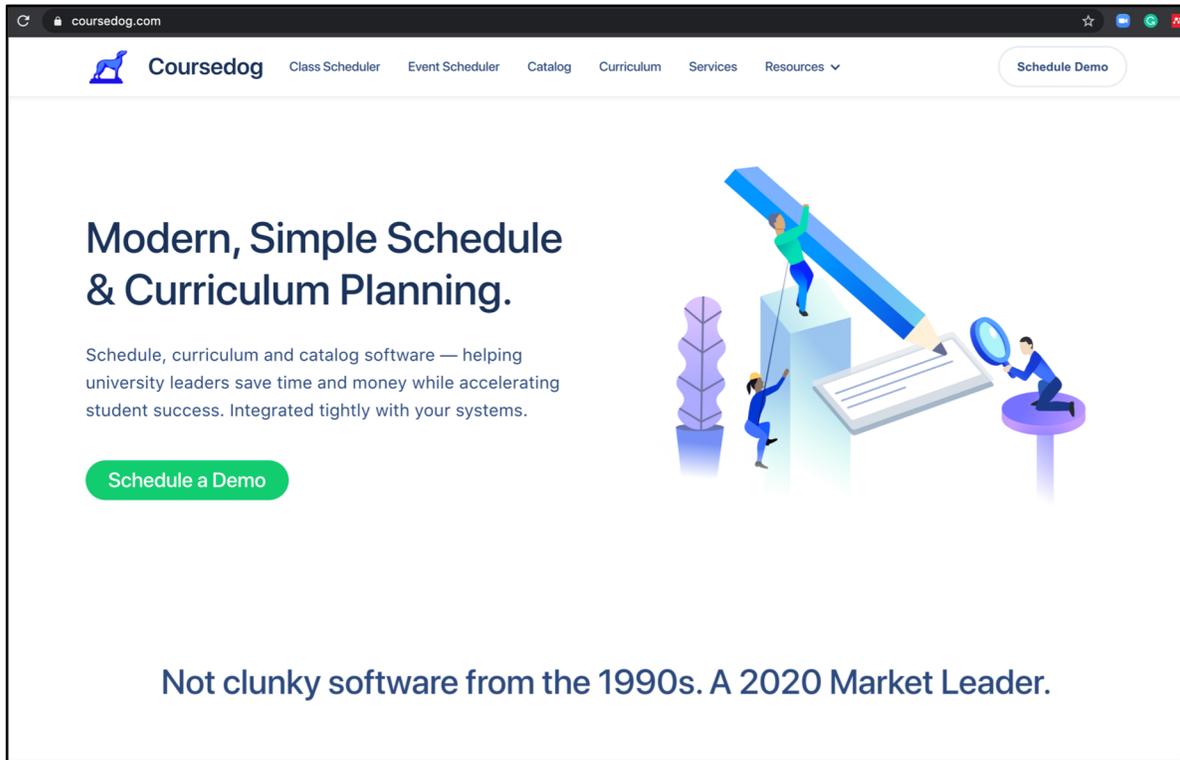
Modern, Simple Schedule & Curriculum Planning.

Schedule, curriculum and catalog software — helping university leaders save time and money while accelerating student success. Integrated tightly with your systems.

[Schedule a Demo](#)

Not clunky software from the 1990s. A 2020 Market Leader.

Generalize from “Scheduling” to “Academic Operations”



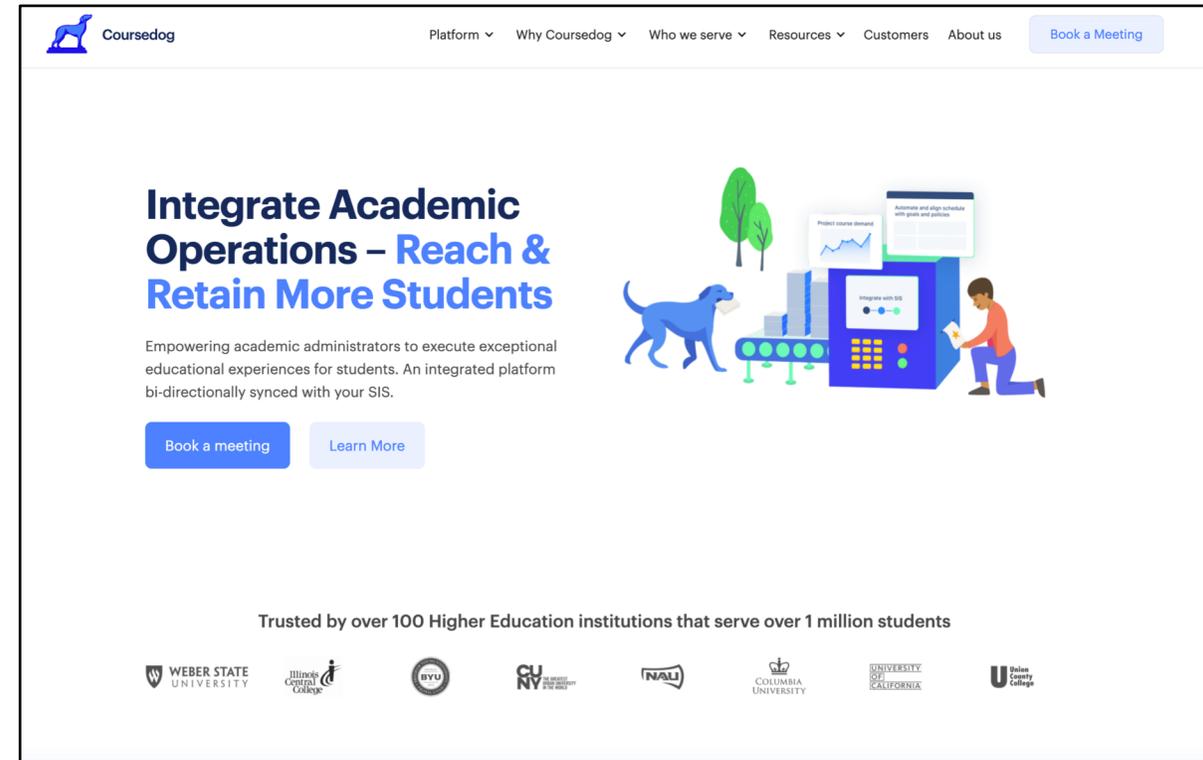
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Schedule, curriculum and catalog software — helping university leaders save time and money while accelerating student success. Integrated tightly with your systems.

[Schedule a Demo](#)

Not clunky software from the 1990s. A 2020 Market Leader.

2019



Integrate Academic Operations – Reach & Retain More Students

Empowering academic administrators to execute exceptional educational experiences for students. An integrated platform bi-directionally synced with your SIS.

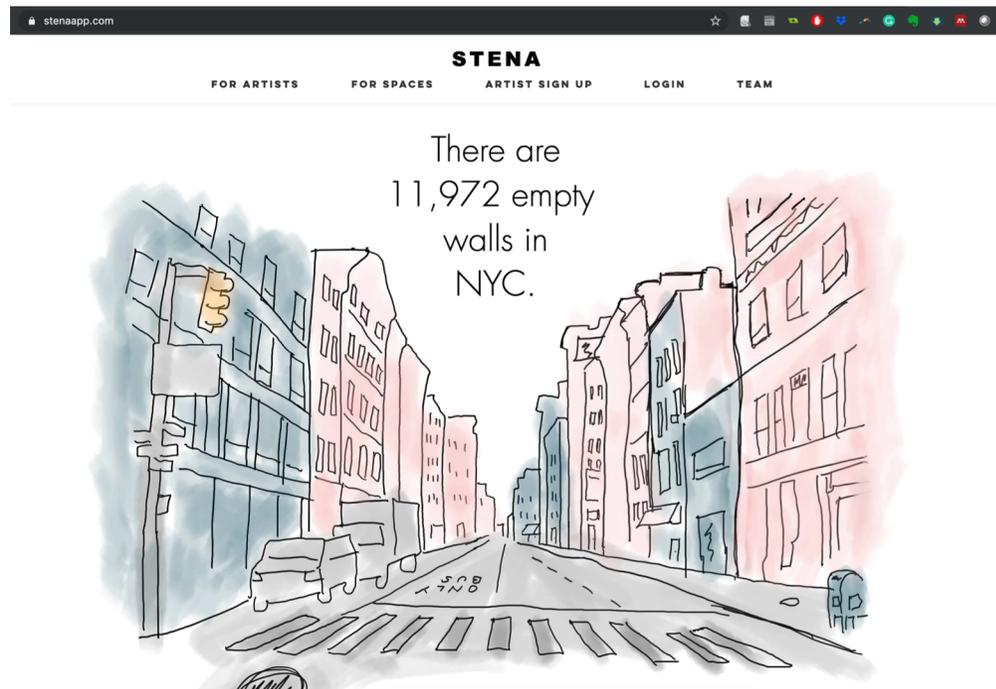
[Book a meeting](#) [Learn More](#)

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WEBER STATE UNIVERSITY | ILLINOIS CENTRAL COLLEGE | BYU | CU NV | NAU | COLUMBIA UNIVERSITY | UNIVERSITY OF CALIFORNIA | UNION COUNTY COLLEGE

2022

Example 2: Stena App

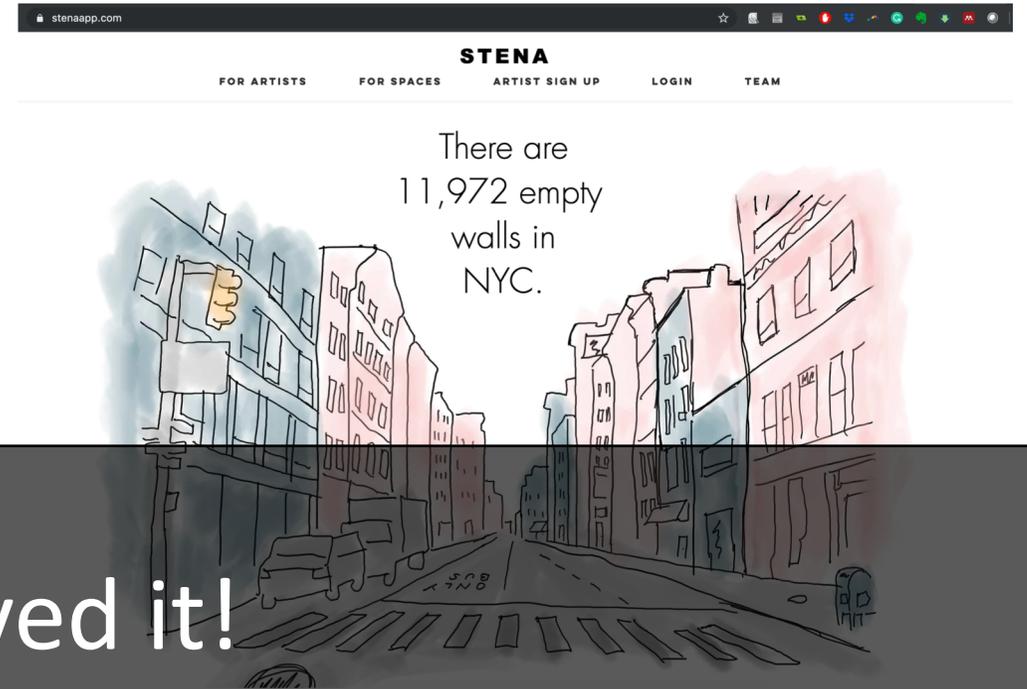


Why don't more coffee shops sell art on their walls?

Would artists and owners be willing?

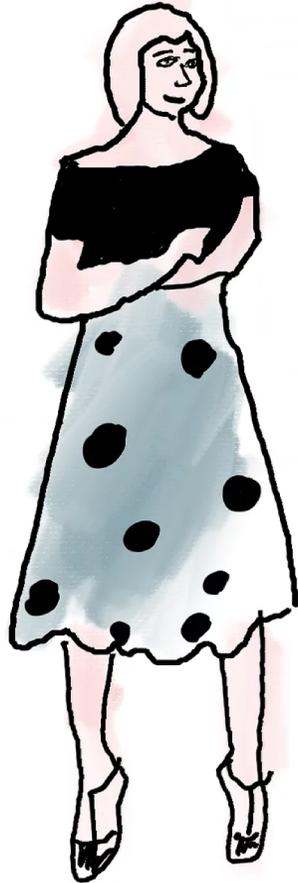
Stena Interviews

- Talk to:
 - Artists
 - Business
 - Potential buyers (coffee shop patrons)



Artists loved it!
They have TONS of their art lying around.

STENA

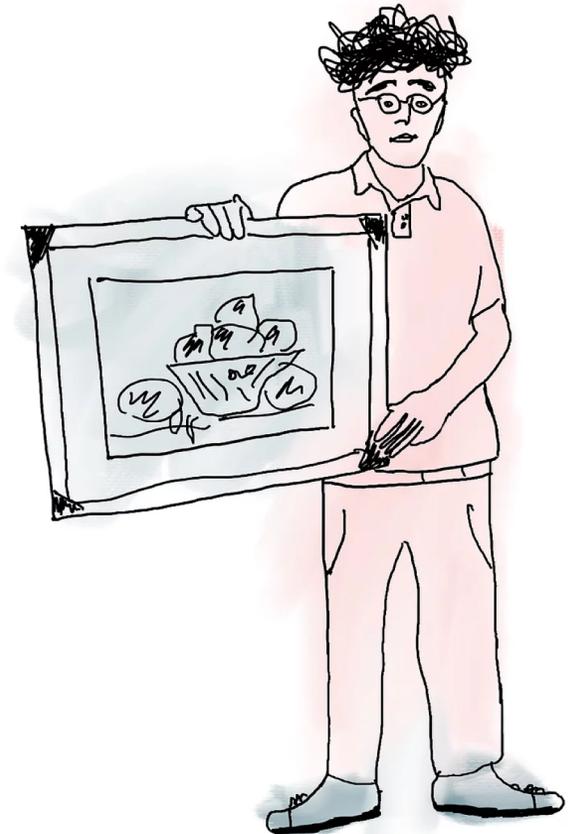
[FOR ARTISTS](#)[FOR SPACES](#)[ARTIST SIGN UP](#)[LOGIN](#)[TEAM](#)

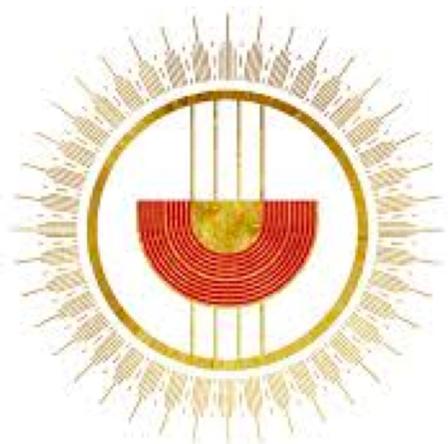
Zak created a Stena profile and uploaded his available art.

Susie saw his work on the Stena site and loved it.

In just a few days, Stena drafted a contract, printed hang tags and installed Zak's pieces in Susie's cafe.

The best part: Zak and Susie paid nothing upfront!



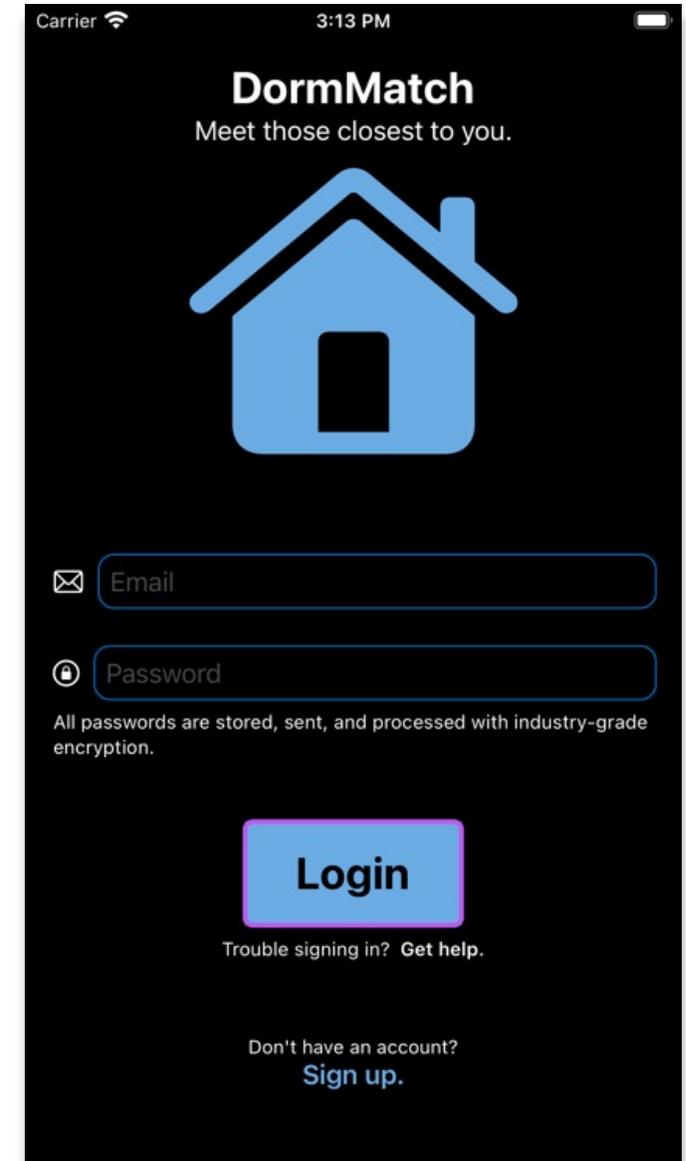


DEAR MAMA
specialty coffee bar



Example 3 : DormMatch

- **Idea:** Pair people up in the same dorm
 - UI Similar to Tinder, only see people in your dorm
 - Useful because of Covid restrictions junior year



What about AI and Design?

Are we going to have jobs in the future?



Designing for Generative AI

COMS 6998 sec 11 Fall 24
Prof Lydia Chilton

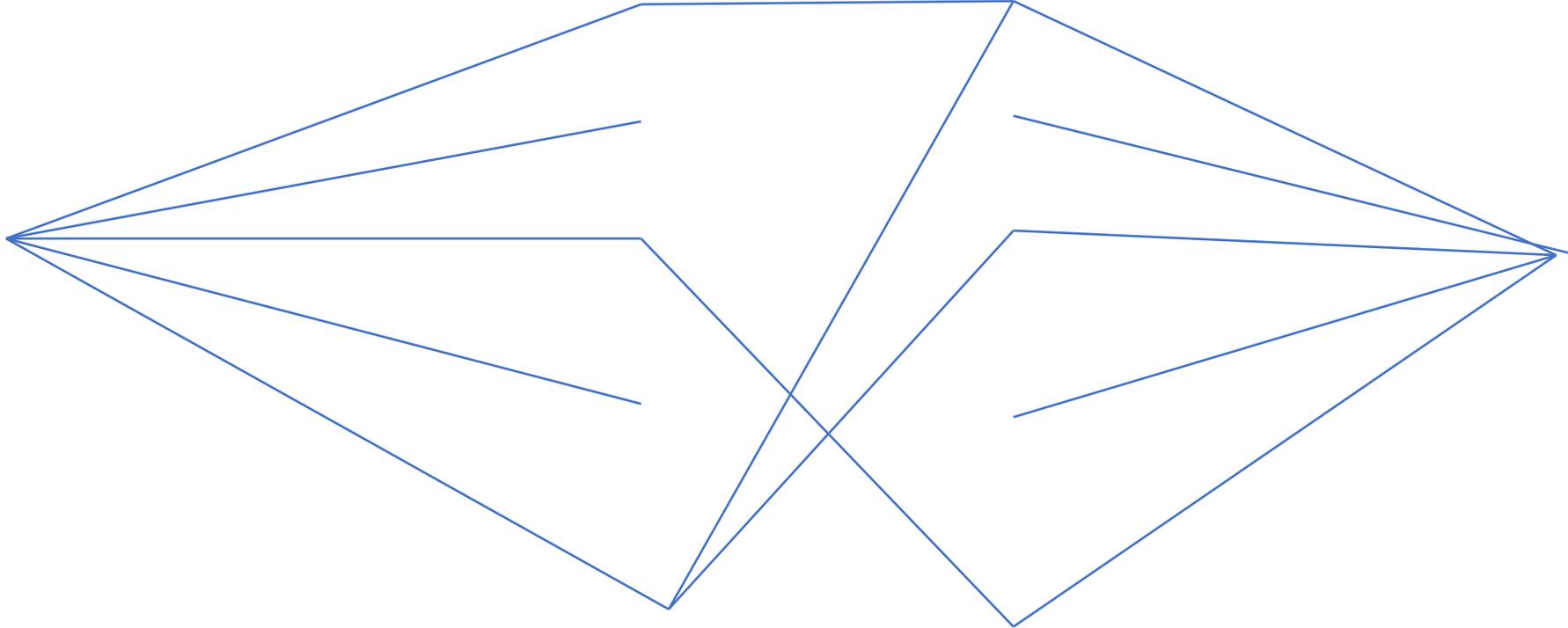
Designing for Emerging Technology is about matching between tech and people.

What can the tech do?

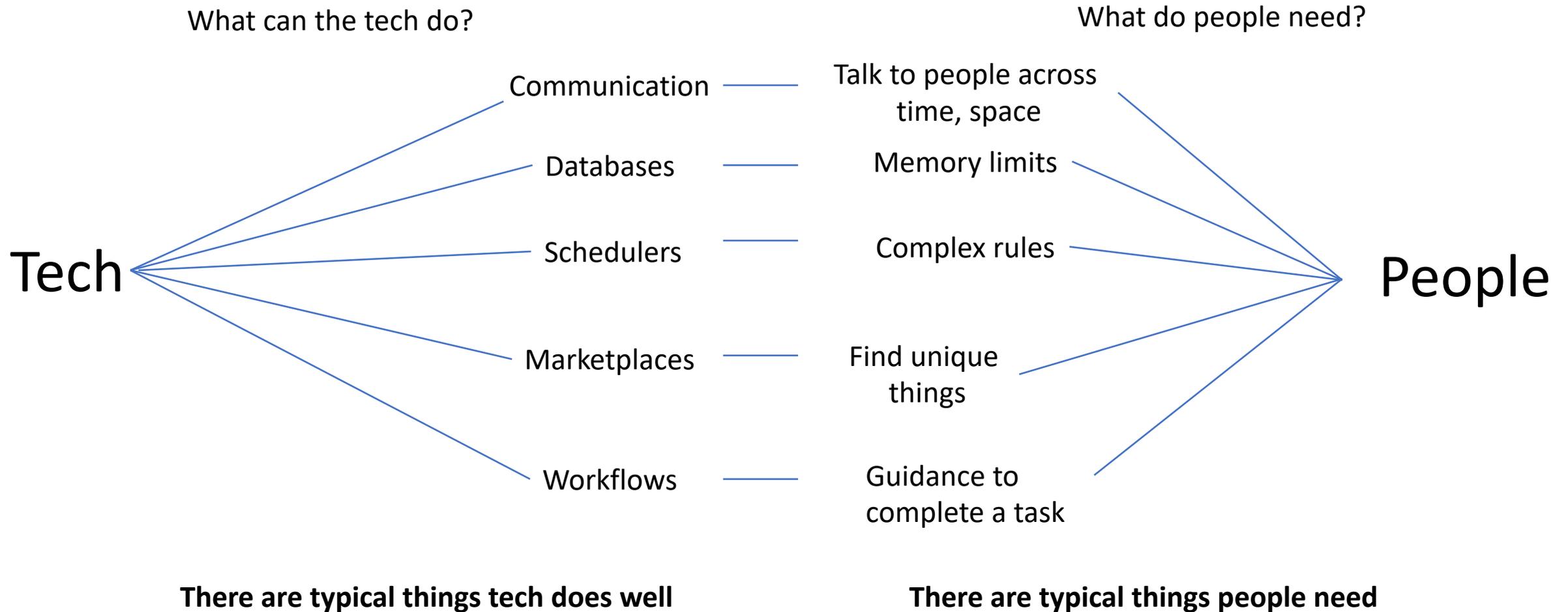
What do people need?

Tech

People



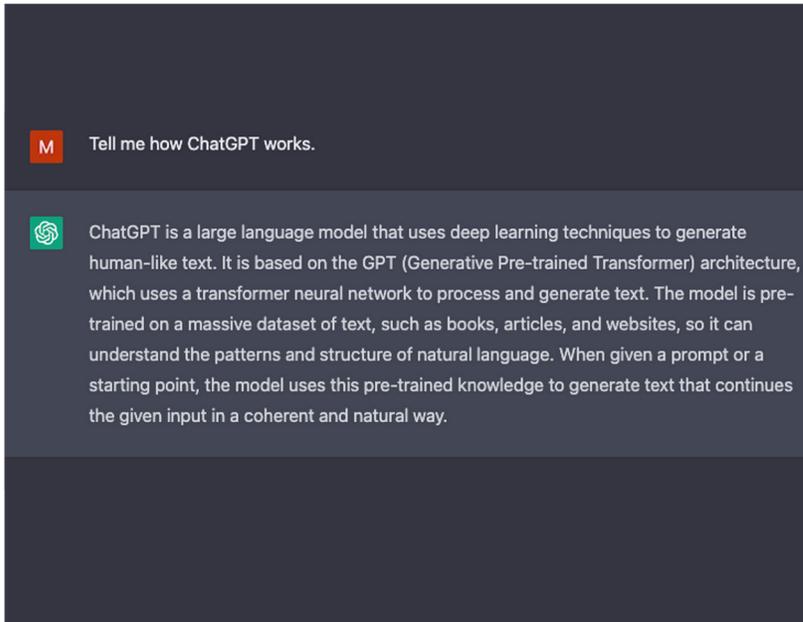
We analyze fundamental needs of people and fundamental abilities of technology.



Mostly Staff Project Mentoring

- It's like the second half of this class.
- We don't teach (much) coding.
- We do teach qualitative research methods
 - How to interview
 - How to conduct observations
 - How to do competitor analysis
 - How to synthesize results
- We'll try to accommodate as many students as we can.
- You cannot be admitted until you pass COMS 4170.

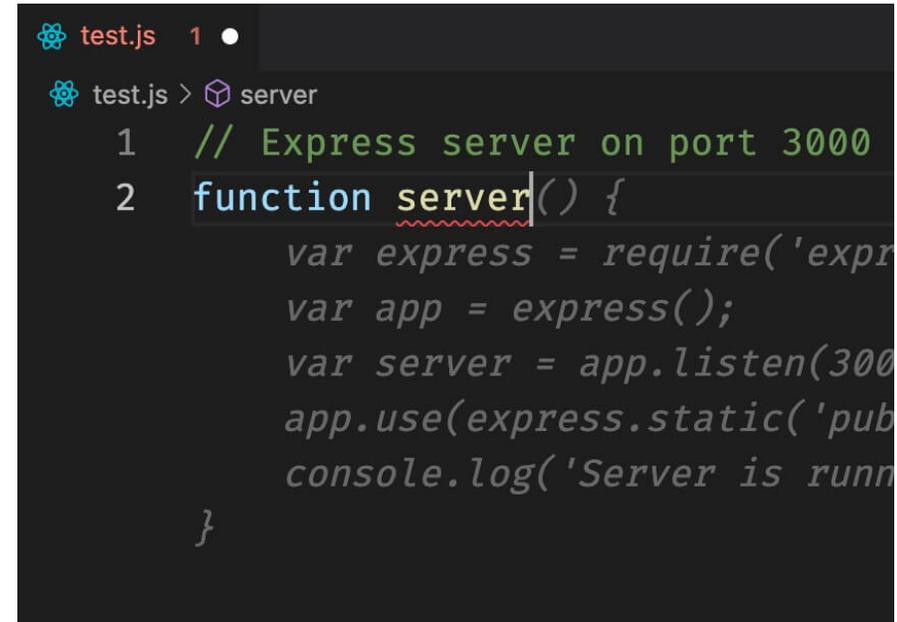
AI seems to be taking over the world



text



images



code

Everyone: AI art will make designers obsolete

AI accepting the job:



AI is impressive, but far from perfect



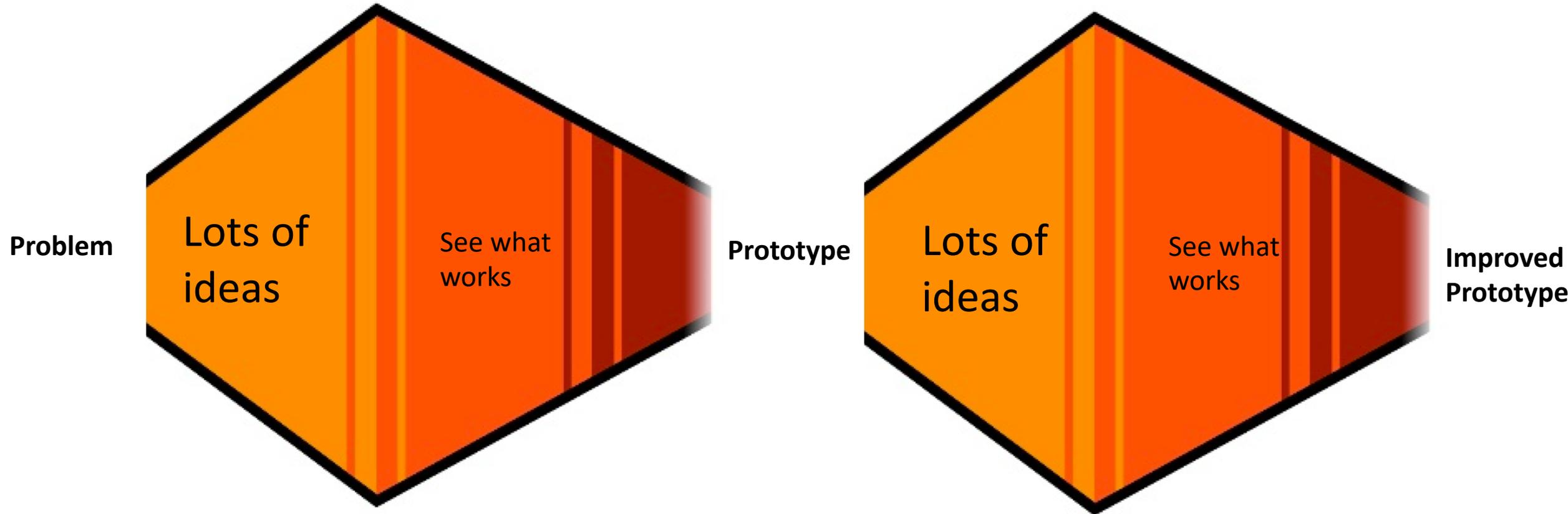
- It doesn't know what's true
- It can't evaluate what outputs will resonate with people
- It's answers are pretty basic - summarized from what's already written.

AI needs people

How do we structure human-AI collaboration?

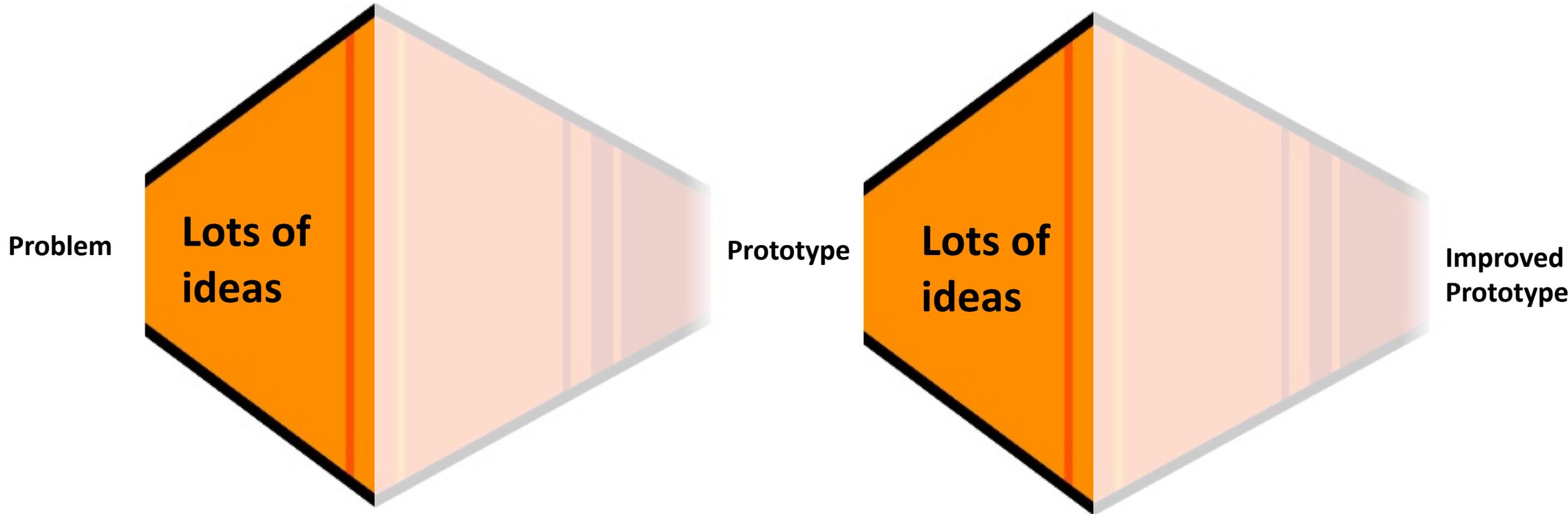


The design process is a model for innovative and creative outcomes.



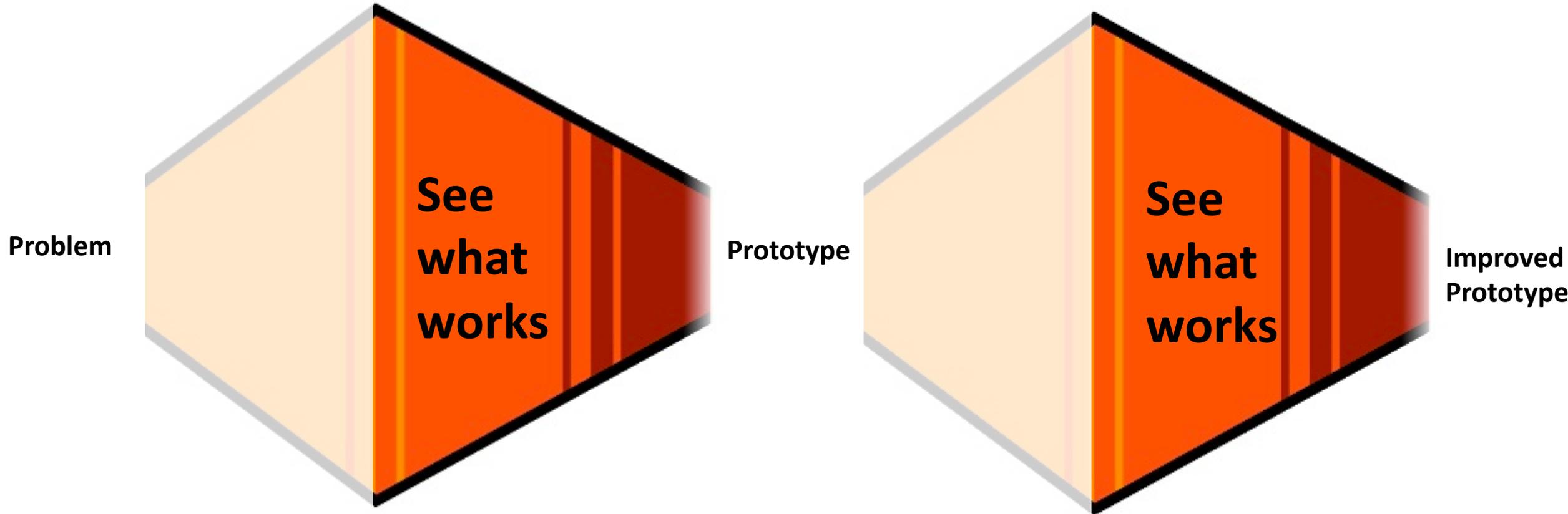
Psychology calls it divergent and convergent thinking
Designers call it flare and focus

In design, people struggle to generate many ideas and prototypes



People often fixate on a single idea...
But AI doesn't

AI struggles to understand context and evaluate outputs



But people find evaluation much easier than generation.

Humans and AI have complementary skills

AI can help:

- **Explore** the design space.
- Provide a good **starting point**.
- Create many **prototypes** quickly.

People must:

- Understand the **context and goal**
- **Pick the direction**
- **Judge** the outputs
- **Ensure a cohesive** output.

To design together, humans and AI must have a shared representation of the problem.

News Angles: GPT to help journalists discover angles for press releases

[View site information](#)

> [Main points of press release](#)

> [Potential sources of controversy](#)

> [Potential areas of investigation](#)

> [Potential negative outcomes](#)

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▼ [Articles about: NYC + **South Brooklyn Marine Terminal**](#)

> [Jacobs Will Redevelop South Brooklyn Marine Terminal](#) (Yahoo Entertainment) ➔

> [GE-BOND Consortium Awarded Landmark Contract to Build High-Voltage Electrical Systems for Empire Offshore Wind 1 in New York](#) (Business Wire) ➔

> [City calls for offshore wind facility dev on Staten Island](#) (The Real Deal) ➔

> [Getting Wind of It: NYC Seeks to Build Offshore Wind Facility on Staten Island](#) (Commercial Observer) ➔

> [Jacobs Will Redevelop South Brooklyn Marine Terminal](#) (PRNewswire) ➔

> [Articles about: NYC + **offshore wind**](#)

[Mayor Adams Announces Agreement to Transform South Brooklyn Marine Terminal Into Leading Offshore Wind Hub](#)

released: 03/03/2022

New York City Mayor Eric Adams today announced an agreement that will transform the city-owned South Brooklyn Marine Terminal (SBMT) into one of the largest offshore wind port facilities in the nation. The agreement will help establish New York as a leader in offshore wind and help the New York City meet its nation-leading climate goals of 100 percent clean electricity by 2040.

As part of the deal finalized by the New York City Economic Development Corporation (NYCEDC), Equinor, its partner — bp — and Sustainable South Brooklyn Marine Terminal, L.P. (SSBMT) will upgrade and build out the terminal as an operations and maintenance base. The terminal will become a power interconnection site for the Empire Wind 1 project, and heavy lift platforms will be built on the 39th Street Pier for wind turbine staging and installation for Equinor and other developers. The port will serve as a hub to support the Empire Wind and Beacon Wind offshore wind farms.

NYCEDC also partnered with Equinor and the community to support workforce training for a diverse pool of local residents to bolster opportunities for New Yorkers created by investments in offshore wind infrastructure. The agreement expands the target of minority- and women-owned business enterprise (M/WBE) contractors based in and registered with New York City or New York State, with a 30 percent M/WBE participation goal; and will support technical assistance for M/WBE and Disadvantaged Business Enterprises to create more opportunities for participation in this sustainable growth industry. Additionally, the agreement ensures the development will be a low-emissions facility.

"With this investment, the South Brooklyn Marine Terminal will soon be transformed into one of the largest offshore wind port facilities in the nation," said Mayor Eric Adams. "This site will be the launch of a whole new industry for New York City that will support 13,000 local jobs over time, generate \$1.3 billion in average annual investment citywide, and significantly reduce our carbon footprint so that we can meet our climate goals of 100 percent clean electricity by 2040. This is a transformative moment for New York City and our clean energy future — a future of sustainable power, good-paying jobs, and climate justice."

"This first major milestone in New York City's Offshore Wind Vision Plan is a perfect example of how our economic and workforce development objectives must go hand in hand with our clean energy goals. By building this new industry in the right way, we will continue to advance an equitable recovery and make our environment healthier as well," said Deputy Mayor for Economic and Workforce Development Maria Torres-Springer. "We thank NYCEDC and our partners at Equinor, bp, and SSBMT for coming together to transform the South Brooklyn Marine Terminal into a major offshore wind hub and make New York City a leading destination for this important and growing industry."

"Economic, racial, and gender equity is what informs and drives our work every day," said Magalie Desroches Austin, senior advisor to the mayor; and director, Mayor's Office of Minority and Women-Owned Business Enterprises. "We're excited to support and collaborate with our partners at the NYCEDC and at the South Brooklyn Marine Terminal on this highly important initiative. Not only is this a capital investment in New York City's offshore wind energy, its accompanying infrastructure, and the emerging work force critical to the long-term sustainability of the greatest city on earth, but it also helps to meaningfully and positively move the needle on the mayor's commitment to Minority- and Women-Owned Business Enterprises and the diverse workforce they employ. We look forward to the many long-term benefits this investment will have on New York City's environmental footprint, its labor force, and the myriad of M/WBEs that make New York City unique."

Equinor also committed to establishing a \$5 million ecosystem fund to bring more New York City residents into offshore wind careers, propel offshore wind innovation, and support a just transition. Finally, Equinor is working to establish an offshore wind learning center — accessible to the community — within its Brooklyn office.

Today's announcement is critical to the offshore wind priorities and investments of both New York City and New York State. The city has committed \$191 million to offshore wind projects — including \$57 million in support of SBMT and \$134 million in new investments. The city expects these initiatives to remove more than 34 million tons of

News Illustrations: Make art for headlines

Climate change is speeding up sound in the ocean.

Keywords

global warming



marine life



Tone

panic^s



horror

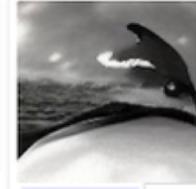


Styles

photo



b&w photo



fish whale dolphin



spider graveyard snake



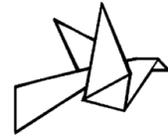
Woodcutting



whale dying in a red ocean on fire, photo



Science Hooks: Explain science on social media using examples and stories



Tweetorial Hook Incubator

Step 1: Input Topic & Generate Everyday Examples

[tweet_topic]:



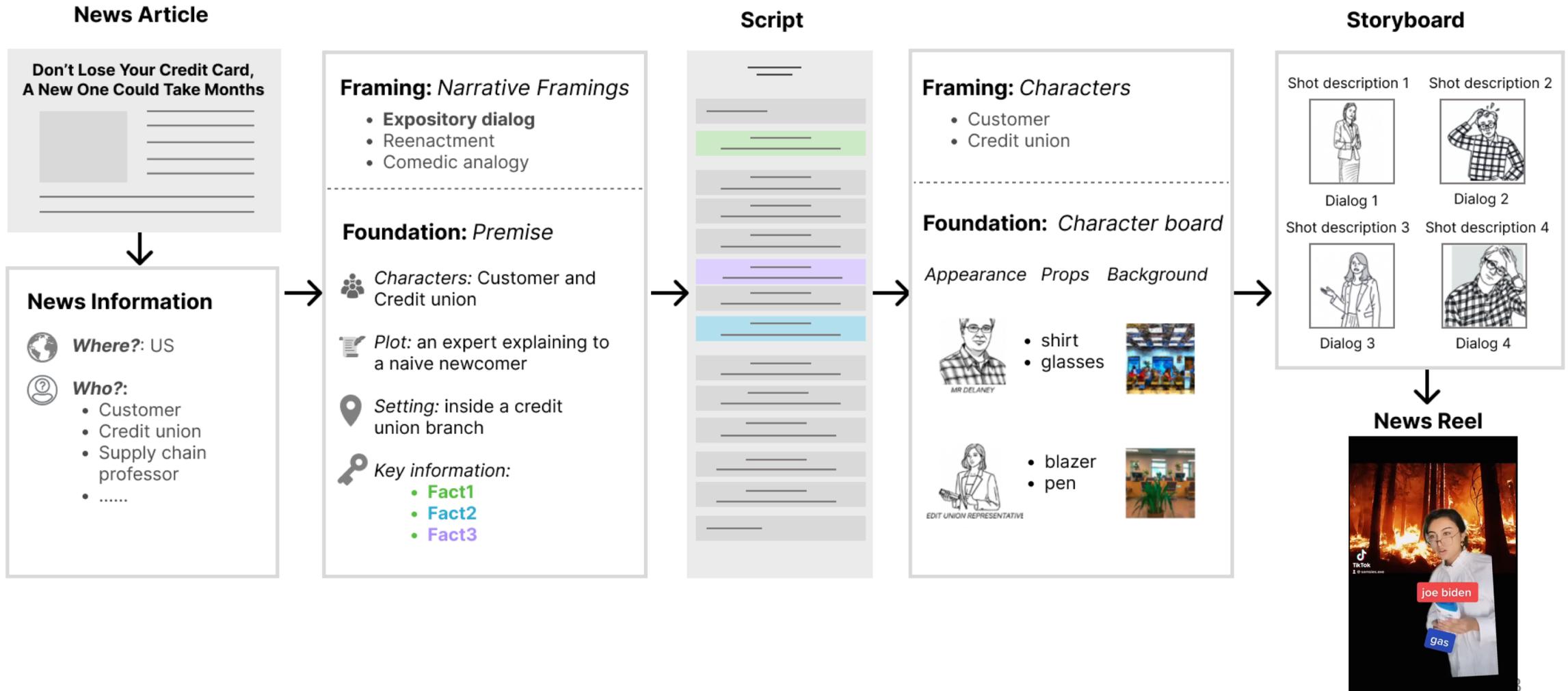
prompt :

Please list 5 everyday examples of [tweet_topic]. Each example should be under 10 words, related to a general audience, and not require technical knowledge.

Here are 5 everyday examples:

1. Loading new posts on Facebook without refreshing the page.  ↓ Copied to Next Step
2. Autocomplete suggestions in Google Search. 
3. Live weather updates on a website. 

News Reels: Turn Print News Into TikToks



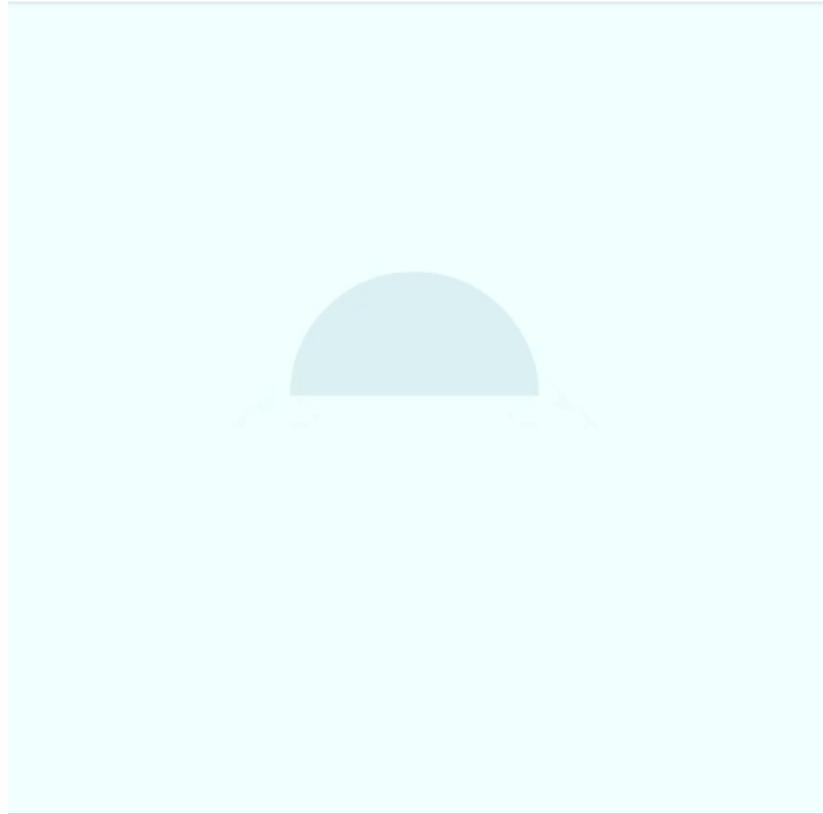
LogoMotion: Code Generation for *Semantic* Animation



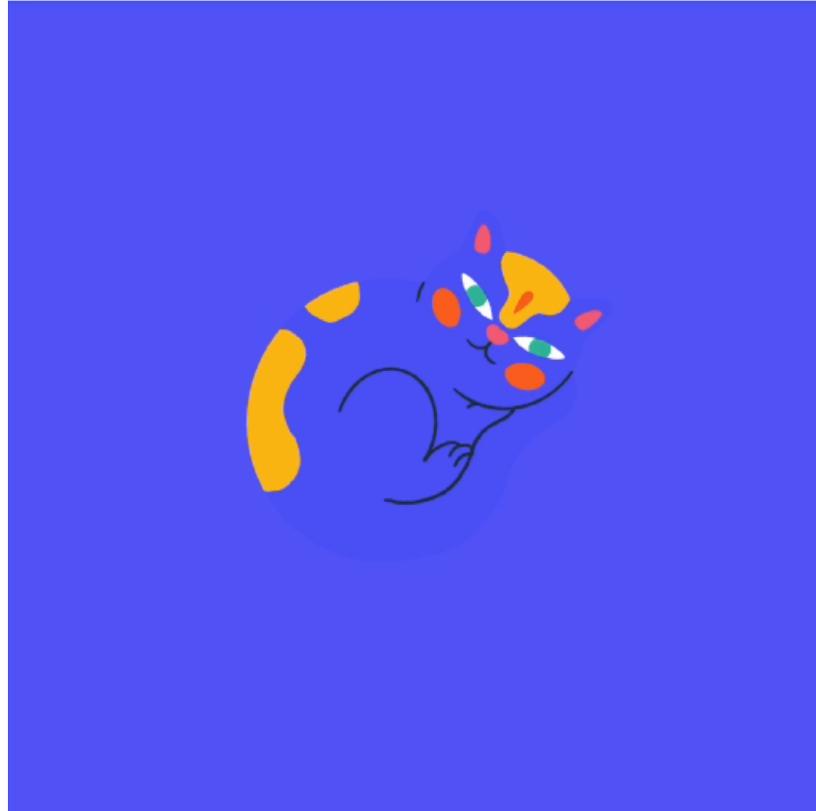
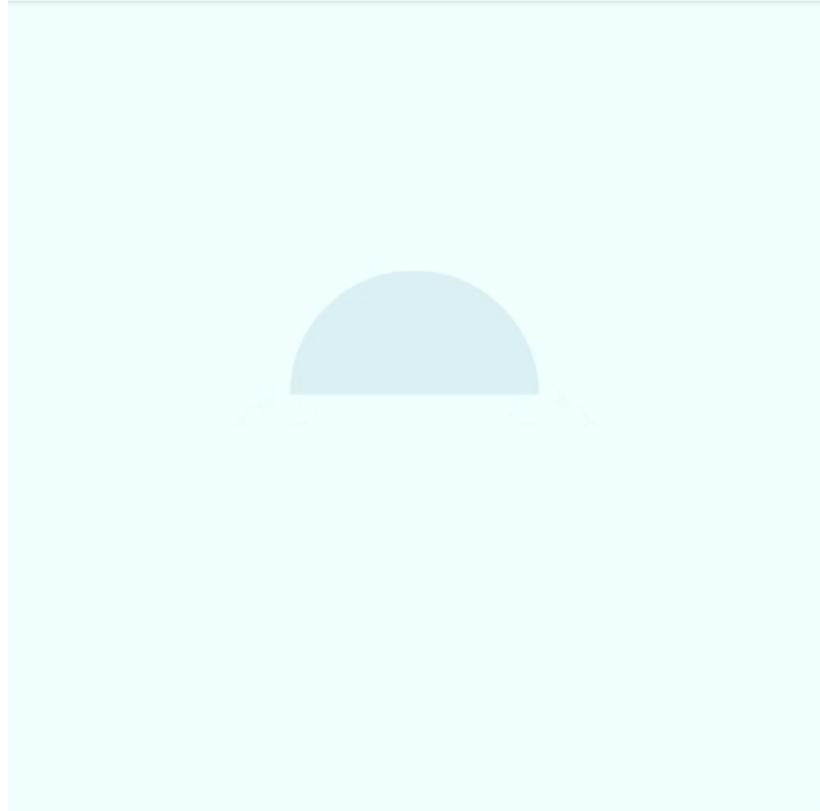
LogoMotion: Code Generation for *Semantic* Animation



LogoMotion: Code Generation for *Semantic* Animation



LogoMotion: Code Generation for *Semantic* Animation



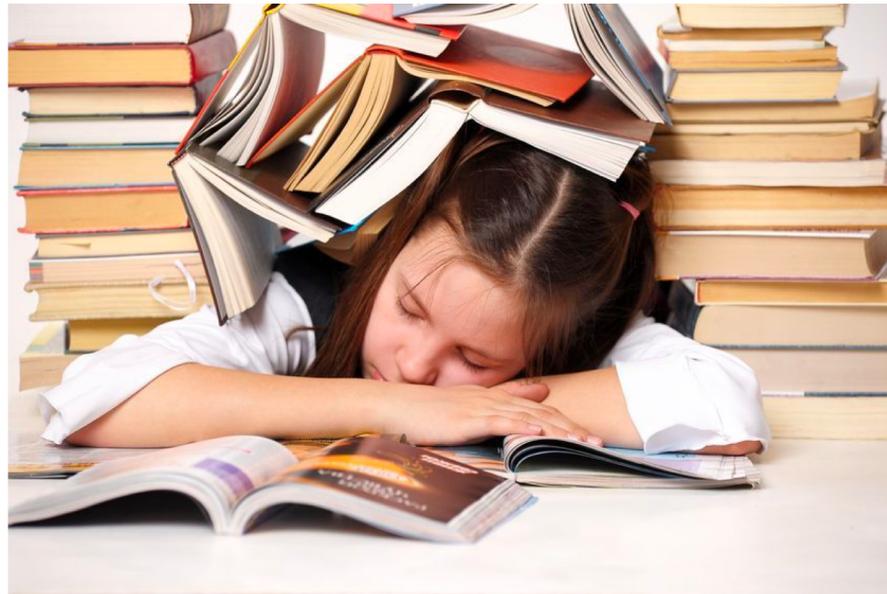
What's next?

How do I continue learning
design?

Not like this



Not like this



More like this



Design is a skill, not knowledge. We learn it through practice and feedback



Sports



Playing an instrument



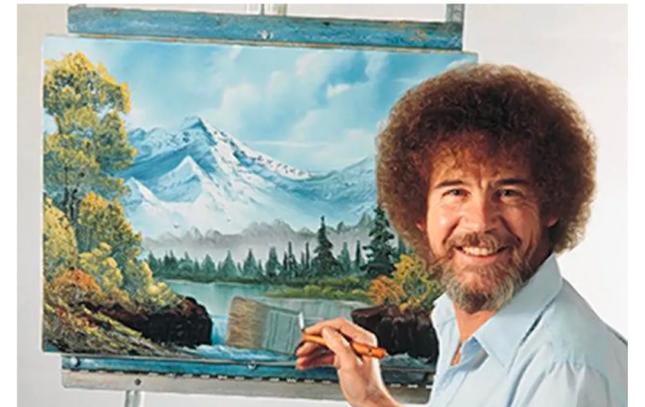
Languages



Cooking



Acting



Painting

Learn Design by Doing it



Paul Blaer,
CS



Lydia Chilton,
CS



Steve Feiner,
CS



Brian Smith,
CS



Gita Johar,
Business



Mark Hansen,
Journalism



Laura Kurgan,
Architecture



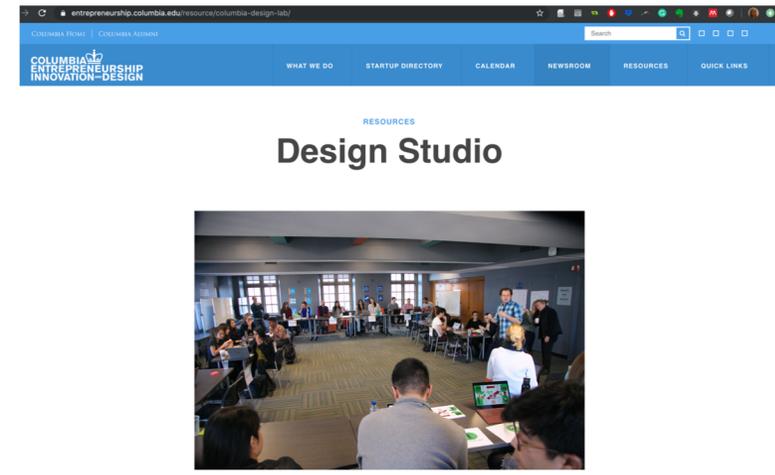
Elizabeth Hillman,
Biomedical Eng



Harry West
MechE / IEOR



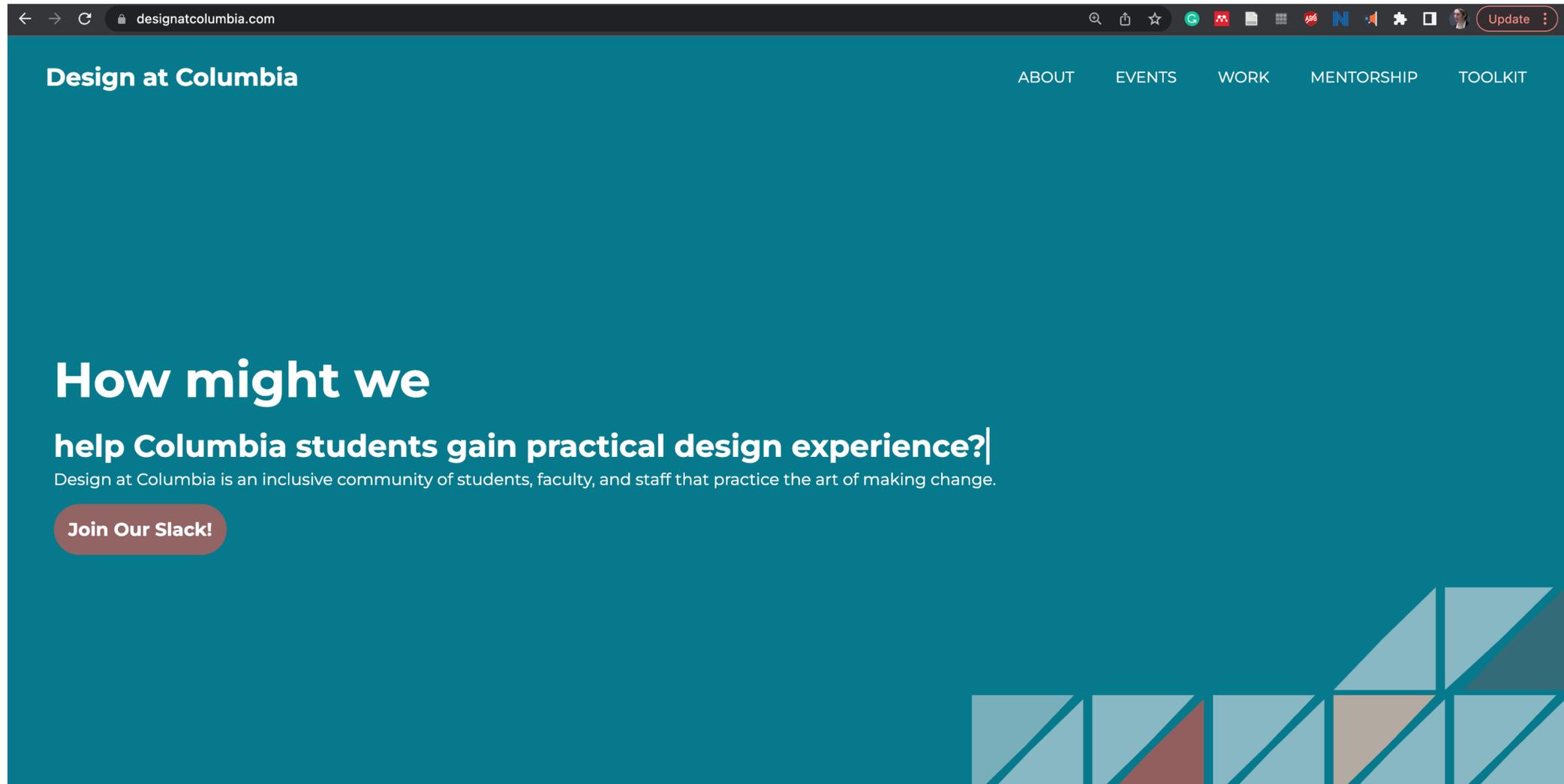
Chris Wiggins,
Applied Math



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001	12458	Spring 2022	Brian A Smith	Computer Science	In-Person

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2



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Thank you for being a great class.

Putting up with warm ups!

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Homework 5

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Homework 6

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You have always got me.

My best selling product is pants,
But I'm trying to make shirts.

I'm trying to find a UX designer

I might be interested in grad school

I missed my flight,
what should I do?

I have a start up idea!

I can't get my site to run on digital ocean

I need feedback on my
summer internship project

I can't [random thing I downloaded] to run!



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