R THE ALTO

Final Project Brainstorming

No screens



Prof. Lydia Chilton COMS 4170 25 March 2019





Homework 8

Building a search application

You came up with very diverse domains

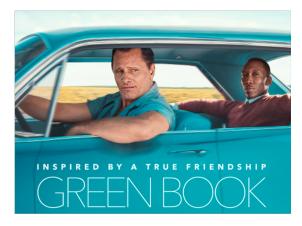
NBA All-Stars



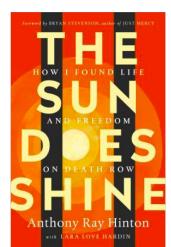
Affordable make-up



Academy Award Winning Films



Book I want to read



Independent Coffee Shops in NYC



Fauvist Paintings



And compelling use cases

Family-owned Ice cream parlors in the US

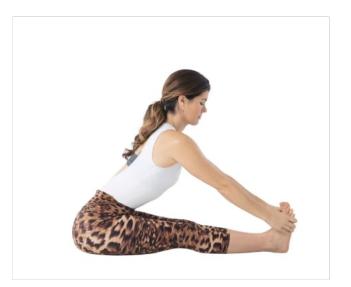


A college student is graduating and wants to road trip from NYC to Florida. Along the way, they want to find top-rated family-owned ice cream parlors so they can write about it for their travel blog.

More specific use cases

US Elections in 2018

Yoga poses



A person who has soreness or is looking to make a part of their body more flexible. Top players for the 2019 baseball season



Someone who wants to prepare for his or her fantasy baseball draft



1. Any civically minded citizen or citizen who wants to be more well-read about our politics

2. A political candidate who wants to see how safe the incumbent in their district based on the results in the 2018 election.

More specific about the benefit – the reason to use it. DR THE ALTO

Final Project

No screens



Prof. Lydia Chilton COMS 4170 25 March 2019



DESIGN PRINCIPLE



Goal 1 Build websites that suit the needs and abilities of users

	.google.com/mail/u/0/#inbox	-			🌰 🥐 Q 🏠 💽 🜉 🗉
Apps imported From Fit	efo 🧧 Holiday Guide TVG - 🎦 Web Help Desk	Pixabay - Free Imag: W Tech Tools For Teacl G App	s Status Dashbo		Other Bookmark
CHLORED		Loading	· Q	Jeffrey	^ ≡ 0 🕼
Mail -	· · · · More ·			1-14 of 14	< > \$
COMPOSE	Primary 🙁	Social Promotions	Updates	•	F •• F
Inbox (2) Sent Mail Drafts (34) Need to Read Technology Coach More -	🗌 🚖 🕑 Baldwin, BPS (2)	Bloglovin' - Not that I know of. Sometimes blocke	d sites come in on a hug	11:08 am	Search people Jed Givens
	🗌 📩 Ď Feldmann, Ann	Fwd: 21st Century Classroom Visit? - Ann Feldr	nann District Technolog	10:18 am	 Ann Feldmann Ann Feldmann
	🗌 🚖 💌 me, Lambert (2)	8th Period - Hey, Jeff. I am planning on doing the I	Nystery Hangout lesson	8:05 am	Cadwallader, Julie
	🗌 🚖 💌 me	(no subject) Jeffrey Bernadt District Technology	y Specialist Bellevue Pu 🛛 😅	Jan 12	Christopher Kessell Courtney Saffold
	🗌 🌟 💌 me, Braasch, Klamm (3)	Visitation & Observation Request - Good morning!	The second semester is	Jan 12	Jeanette Carlson
	🗌 🛨 💌 me, Cox (2)	Bri Cox - Coaching Doc - Invitation to edit - Jeff, I f	inally was able to read a	Jan 12	Johnson, Stephanie Kelly Bernadt
	🗌 🌟 🤥 Tripple, Todd	3D Printer - Hello Amy, I received some informatio	n from a 3D printing exp	Jan 11	Loomis, Phillip Robert Mason
	🗌 🛨 🖂 donotrepty	Education Preview Build Notice - # AppleSeed Bu	ild Notice Education Pre	Jan 11	Shannon Gier
	🗌 🛨 🧿 🛛 Ann Feldmann	Fwd: [New post] What "Innovative Leadership" Loc	ks Like - A good read! :-	Jan 11	Todd Tripple Toledo, Julian (Delor
	🗌 🌟 💌 me, Campbell (7)	Khan Academy Issues - It kept repeating that "cha	nged password 7 month @	Jan 8	
	🗌 📩 💽 Toelle, me (3)	6 Word Stories - Hey Jeff! We just returned from lu	inch, but still have quite	Jan 8	
	🗌 🚖 💌 me, Evon (4)	Request to Visit on Thursday AM - Hi Jeff, Happy I	New Year! We would lov	Jan 6	
	🗌 ☆ 🝺 Jeffrey Bernadt	Shared from Twitter: What teachers need to know	about multicultural educ	12/23/15	

Co	lum	bia Pap	er Infinity
Home	Log Sales	Party Planning Committee	
People		Party Planning Contractions 1: Angela	
2: Dwight		1: Phyllis	
3: Oscar			
4: Creed			
5: Pam			
6: Jim			
7: Stanley			
8: Michael			
9: Kevin			
10: Kelly			

1. Display information

2. Design interactions

...that allow users to accomplish a goal

Goal 2 When the needs and abilities of users are unclear, design systems by **learning from iteration** and experimentation.

Part 3: Editing the Party Planning Committee

The interface to edit the party planning committee (PPC) is a drag and drop direct manipulation interface as described below.

- 1. The PPC UI needs to display two lists:
- a list of all the employees seen here, and
 a list of people on the party planning committee. In its default state, the party planning commi
 Each list must have a div at the top of the list serve as a drop target.
- Using JQuery Draggable and Droppable even list to the head of the of the PPC list, and whe must also be true: names from the PPC list ca This must be implemented in the Model + Vie
 To cue that an element is draggable, implement background turns light yellow, and the curso
 While the item is being dragged, the backgro cursor.
- 6. While the item is being dragged, it should loo
 7. While the item is being dragged, the drop targ
 8. When the item is dragged over the drop targe
 9. If an item is "dropped" anywhere other than a where the user started dragging it.

Note:

When the user toggles between the Logging Sales U should be stored in a javascript variable that if the u be there. However, for this implementation, if the us

Please submit your HTML, CSS, and JS files, along w



Keep a list of the party planning committee

Clear needs, abilities, goal

Unclear needs, abilities, goal

Final Project

- Build a **web** application
- That allows a user to interact with media
- Within a **domain**
- To achieve a specific user goal
- Where the output of the goal must be **visible** within the app.
- The goal and interaction must be more complex than simply searching the data.

Project Logistics

- Weekly homeworks will build up to the final project (5% of grade)
- Final submission is worth 15% of your grade.
- This project is to be completed **individually**.
 - Although you will have a "group" to get feedback from.
- This task is purposely ill-defined.
 - It is up to you to define what problem you are going to solve.
 - When need a clarification, please attempt an answer first, so that we can steer you in the right direction.

Good Example: Learning Bird Calls

Domain:	Bird watching
Specific need:	Help bird watchers learn the calls of the 50 official state birds
Media:	Bird images, Bird calls (audio), US state map
Interaction:	Interactive map for users to click on states and see/hear
Visual of Solution:	Users take a quiz on states/birds and see which ones they got right and wrong.

Bad Example: Watching Music Videos

Domain:	Watching music videos
Specific need:	People need to hang out and listen to cool music
Media:	YouTube music videos
Interaction:	Users search of videos and then watch/listen to them
Visual of Solution:	Users feel happy.

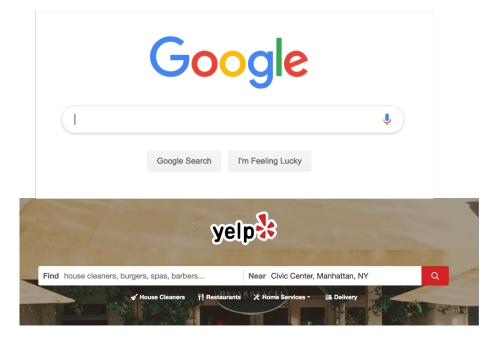
Good Example: Making a work out mix

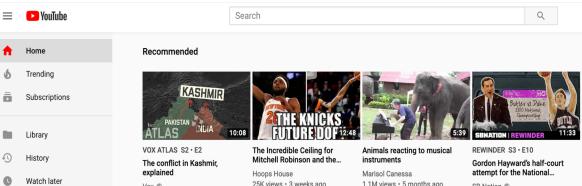
Domain:	Workout mixes
Specific need:	Workout instructors need to plan a 40- minute workout to up-beat songs
Media:	YouTube videos
Interaction:	Search for various songs, trim out the boring bits at the beginning, drag them into a playlist
Visual of Solution:	Users can see how many minutes the playlist has. If it's 40 minutes, it's done!

Final Project

- Build a **web** application
- That allows a user to interact with media
- Within a **domain**
- To achieve a specific user goal
- Where the output of the goal must be **visible** within the app.
- The goal and interaction must be **more complex than simply searching the data.**
- Full specifications will be released later.

Why can't I just make a search app? Aren't they useful?





Search applications are very useful. But you already built one.

We want you to focus on meeting user goals, and interaction, not just displaying data.

If it were 2005, search and browsing would be an unexplored area about how to meet user needs. It's 2019... Search can be a part of a larger user goal.

Final Project

- Build a **web** application
- That allows a user to **interact** with media
- Within a **domain**
- To achieve a specific user goal
- Where the output of the goal must be **visible** within the app.
- The goal and interaction must be more complex than simply searching the data.
- Full specifications will be released later.

Why can't I help people achieve in tangible goals like knowledge, happiness or inner peace?

	Bad example	<u>Good example</u>
Specific need:	Listen to cool music	Plan a 40-minute workout mix
Goal:	Feel happy	A playlist with total time.

It's too hard to design for these internal goals; We want to pick goals that we can see achieved within the app to help direct our designs.

Specific vs. General Needs

What are the kinds of things Politicians, Beauty Queens, and Silicon Valley *say* they will solve?



What are the kinds of things Politicians, Beauty Queens, and Silicon Valley *say* they will solve?



What's appealing about general goals?



What's the problem with general goals?

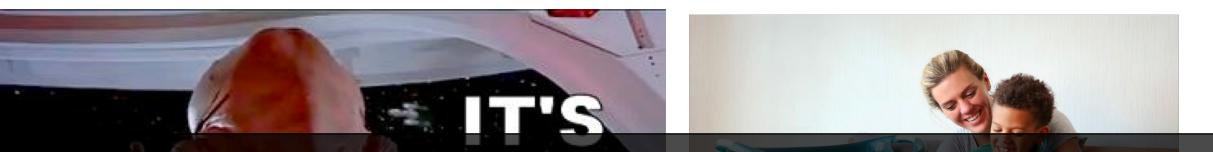


They aren't actionable.

General Vs. Specific Goals

Goal 1: "Clean the house."

Goal 2: "Fold that basket of laundry."



General goals sound appealing, but specific goals are actionable: What **person** is going to execute what **action** on what **object** and get what **value**?

General goals are actually Domains

Domain: "Clean the house"



Specific goal: "Fold that basket of laundry."



What's the risk with a specific goal?



"Fold that basket of laundry."

Specific goals can be trivial.

But, if you start specific, you can usually generalize

Domain Specific Need Generalized to



Online shopping

Uncommon books

Clothes, Food, Amazon Fresh Other sellers





Social Networking

Harvard students looking up major, dorm, relationship status lvy League US Colleges Everybody





Read/send Email

Web-based No page reload Never Delete Chat GDrive



Generalized to Domain **Specific Need**



Online shopping Uncommon books Clothes, Food, Amazon Fresh Other sellers Social Network Ivy League Harvard students to facebook **US** Colleges look each other up Everybody

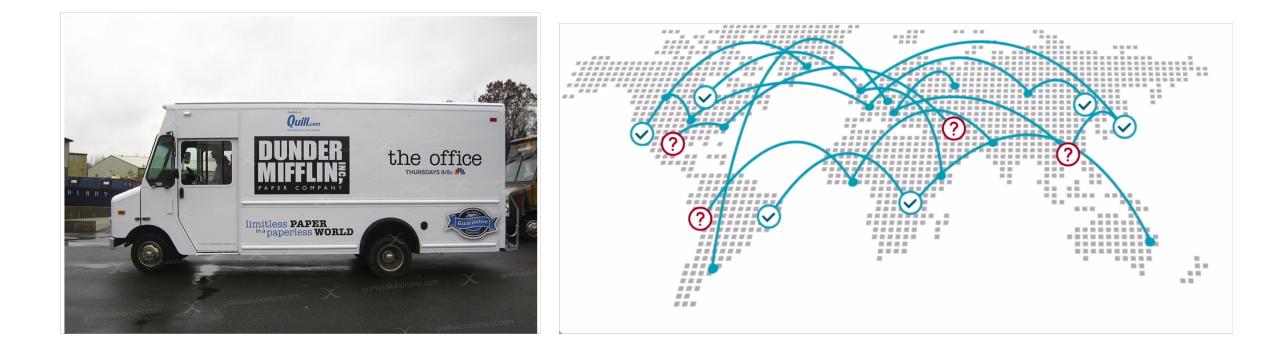
If you start specific, you can usually generalize. No page reload GDrive Never Delete

Why did Sabre (a printer company) buy Dunder Mifflin (a failing paper company)?





Supply Chain Distribution: Generalize from Paper Sales to Printer Sales



If you start general, you may never start.



If you start specific, you can usually generalize later.

R THE ALTO

Brainstorming

No screens



Prof. Lydia Chilton COMS 4170 25 March 2019



PRINCIPLE



Homework 9

- Brainstorm **domains**
- Brainstrom media used in those domains
- Brainstorm **specific needs**

The best way to have a good idea is to have lots of ideas.

- Linus Pauling

Goal: Make the best piece of pottery.

Group 1 was told to make as many as they could

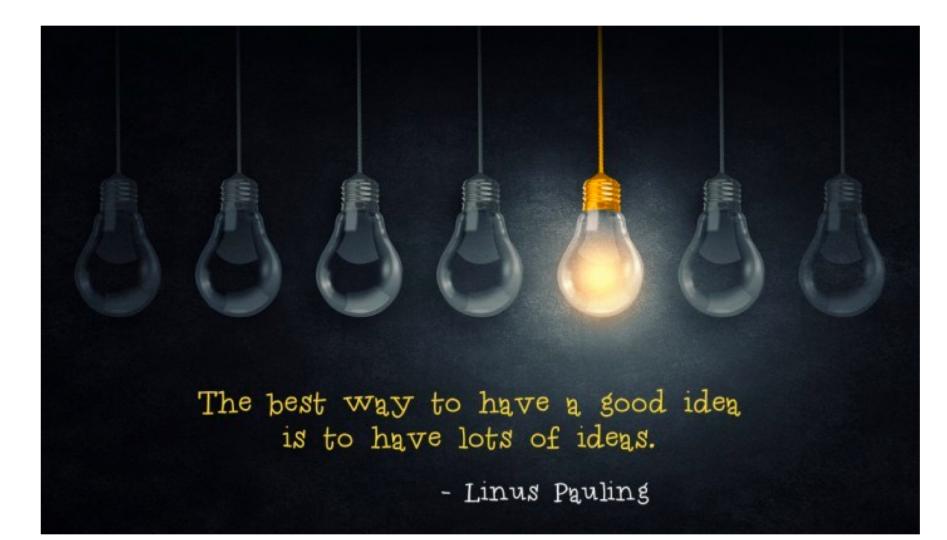


Group 2 was told to only make one





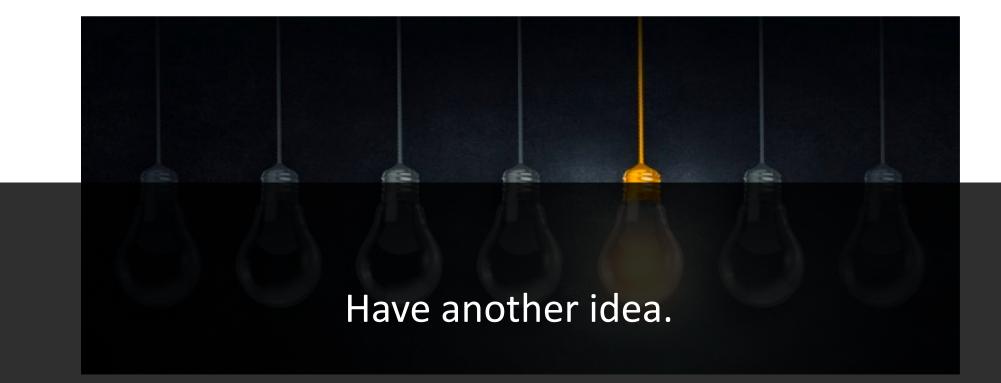
Coming up with the perfect idea can be intimidating



Only rule of brainstorming: No criticism



If you HATE someone's idea, what should you do?



Brainstorm 10 Domains you care or know about.

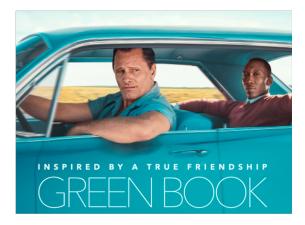
NBA



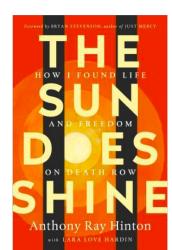
Make-up



Films



Books



Coffee Shops in NYC



Paintings



Brainstorm types of media

images



videos



Big Man Edition | Shaqtin' A Fool Episode 21 gifs

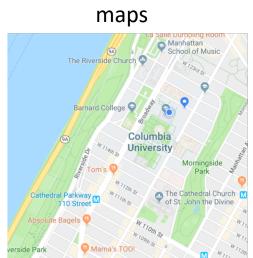


pdfs



charts





audio



Brainstorm More Specific Goals

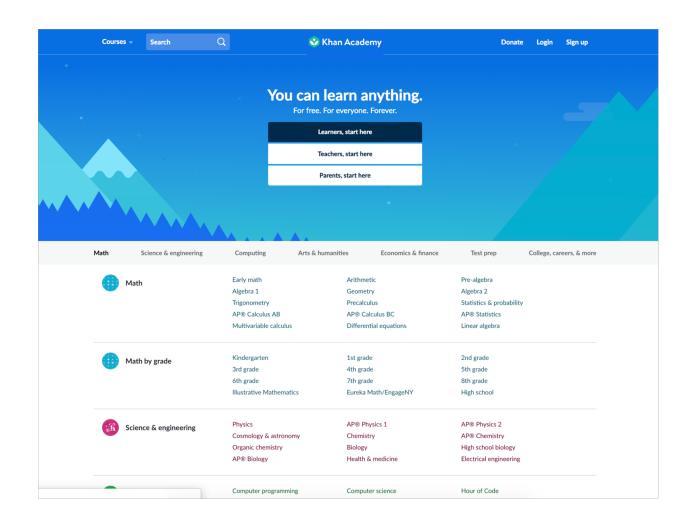
Domain: World peace

Domain: Save the planet Domain: Improve Education

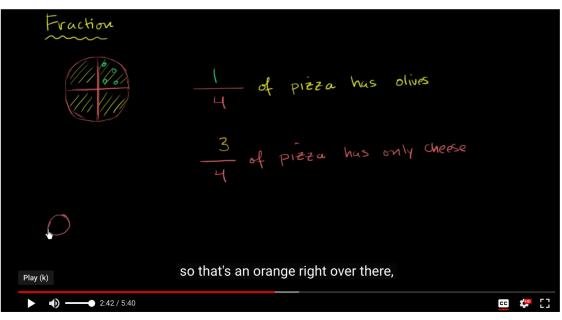
Brainstorm Specific goals for education

What **person** Uses what **media** And has what **interaction** with it To achieve what **goal**? What's one thing somebody else said that you didn't think of?

Khan Academy



Started as:



Videos to teach his niece fractions

Summary

Goal 1 Build websites that suit the needs and abilities of users

	.google.com/mail/u/0/#inbox	-			🌰 🥐 Q 🏠 💽 🜉 🗉
Apps imported From Fit	efo 🧧 Holiday Guide TVG - 🎦 Web Help Desk	Pixabay - Free Imag: W Tech Tools For Teacl G App	s Status Dashbo		Other Bookmark
CHLORED		Loading	· Q	Jeffrey	^ ≡ 0 🕼
Mail -	· · · · More ·			1-14 of 14	< > \$
Courose Inbox (2) Sent Mail Drafts (54) Need to Read Technology Coach More +	Primary 🙁	Social Promotions	Updates	•	🖉 • 🖅 🖿
	🗌 🚖 🕑 Baldwin, BPS (2)	Bloglovin' - Not that I know of. Sometimes blocke	d sites come in on a hug	11:08 am	Search people Jed Givens
	🗌 📩 Ď Feldmann, Ann	Fwd: 21st Century Classroom Visit? - Ann Feldr	nann District Technolog	10:18 am	Ann Feldmann Ann Feldmann Cadwallader, Julie Christopher Kessell Courtiny Saftold Jeanette Cartson Johnson, Stephanie Kelty Bernadt Loomis, Phillip Robert Mason Shanon Gier
	🗌 🚖 💌 me, Lambert (2)	8th Period - Hey, Jeff. I am planning on doing the I	Nystery Hangout lesson	8:05 am	
	🗌 🚖 💌 me	(no subject) Jeffrey Bernadt District Technolog	y Specialist Bellevue Pu 🛛 😅	Jan 12	
	🗌 🌟 💌 me, Braasch, Klamm (3)	Visitation & Observation Request - Good morning!	The second semester is	Jan 12	
	🗌 🛨 💌 me, Cox (2)	Bri Cox - Coaching Doc - Invitation to edit - Jeff, I f	inally was able to read a	Jan 12	
	🗌 🌟 🤥 Tripple, Todd	3D Printer - Hello Amy, I received some informatio	n from a 3D printing exp	Jan 11	
	🗌 🛨 🗇 donotrepty	Education Preview Build Notice - # AppleSeed Bu	ild Notice Education Pre	Jan 11	
	🗌 🛨 🧿 🛛 Ann Feldmann	Fwd: [New post] What "Innovative Leadership" Loc	ks Like - A good read! :-	Jan 11	Todd Tripple Toledo, Julian (Delor
	🗌 🌟 💌 me, Campbell (7)	Khan Academy Issues - It kept repeating that "cha	nged password 7 month @	Jan 8	
	🗌 📩 💽 Toelle, me (3)	6 Word Stories - Hey Jeff! We just returned from lu	inch, but still have quite	Jan 8	
	🗌 🚖 💌 me, Evon (4)	Request to Visit on Thursday AM - Hi Jeff, Happy I	New Year! We would lov	Jan 6	
	🗌 ☆ 🝺 Jeffrey Bernadt	Shared from Twitter: What teachers need to know	about multicultural educ	12/23/15	

Co	lum	bia Pap	er Infinity
Home	Log Sales	Party Planning Committee	
People		Party Planning Contractions 1: Angela	
2: Dwight		1: Phyllis	
3: Oscar			
4: Creed			
5: Pam			
6: Jim			
7: Stanley			
8: Michael			
9: Kevin			
10: Kelly			

1. Display information

2. Design interactions

...that allow users to accomplish a goal

Goal 2 When the needs and abilities of users are unclear, design systems by **learning from iteration** and experimentation.

Part 3: Editing the Party Planning Committee

The interface to edit the party planning committee (PPC) is a drag and drop direct manipulation interface as described below.

- The PPC UI needs to display two lists:
 a list of all the employees seen here, and
 a list of people on the party planning
 In its default state, the party planning
- Each list must have a div at the top of the serve as a drop target.
- Using JQuery Draggable and Droppablist to the head of the of the PPC list, a must also be true: names from the PPC This must be implemented in the Mod
 To cue that an element is draggable, ir background turns light yellow, and the
 While the item is being dragged, the background the second sec
- cursor. 6. While the item is being dragged, it sho
- 7. While the item is being dragged, the dragged over the dro
 8. When the item is dragged over the dro
- If an item is "dropped" anywhere othe where the user started dragging it.

Note:

When the user toggles between the Logging s should be stored in a javascript variable that be there. However, for this implementation, i

Please submit your HTML, CSS, and JS files, a



Keep a list of the party planning committee

Clear needs, abilities, goal

Unclear needs, abilities, goal

Final Project (50% of your grade)

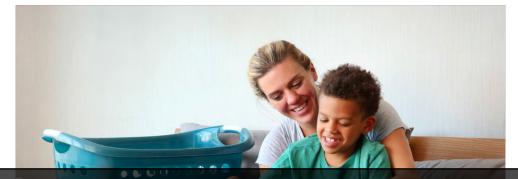
- Build a **web** application
- That allows a user to **interact** with media
- Within a **domain**
- To achieve a **specific user goal**
- Where the output of the goal must be **visible** within the app.
- The goal and interaction must be more complex than simply searching the data.

General vs. Specific Goals

General Goal: "Clean the house."



Specific Goal: "Fold that basket of laundry."

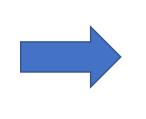


General goals sound appealing, but specific goals are actionable: What **person** is going to execute what **action** on what **object** and get what **benefit**?

If you start general, you may never start.



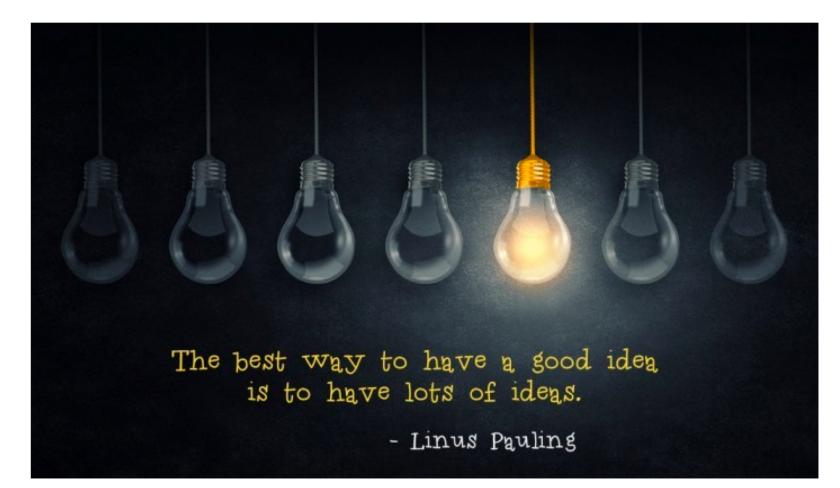
Harvard students looking each other's dorm, major and relationship status



facebook

If you start specific, you can usually generalize later.

Brainstorm many ideas before picking one





Save criticism for later. It impedes the process of having more ideas

Homework 9 due Friday

Brainstorming:

- Domains
- Media usage in those domains
- Specific applications

Feel free to ask friends, staff, work together

Don't forget the participation form!