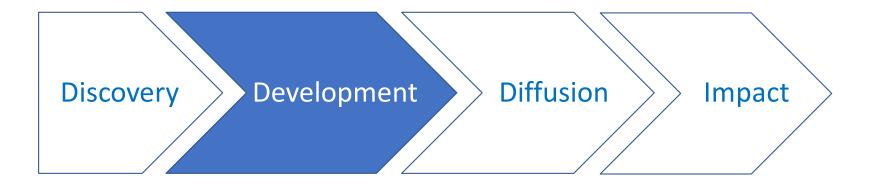
Innovation for Entrepreneur

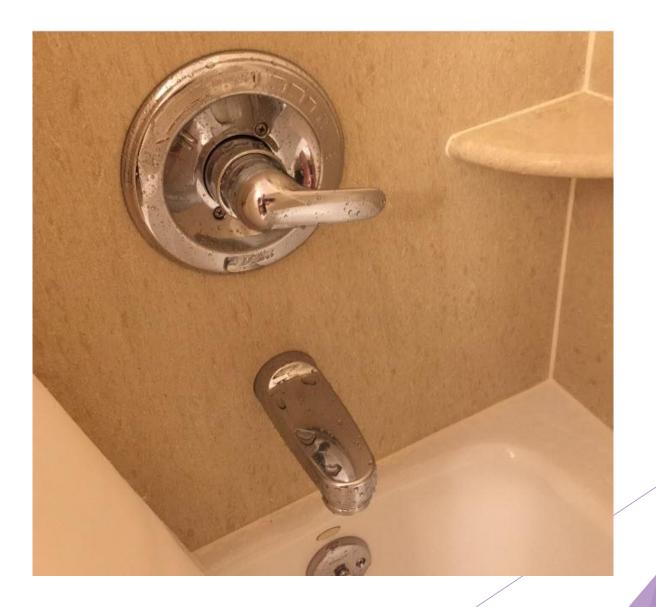
Innovation for Entrepreneur

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9. Turning ideas into products and services

Bad design



Bad design



Bad design

- Apple has often been praised for its good design
- But how would you switch on this Apple TV Siri Remote?



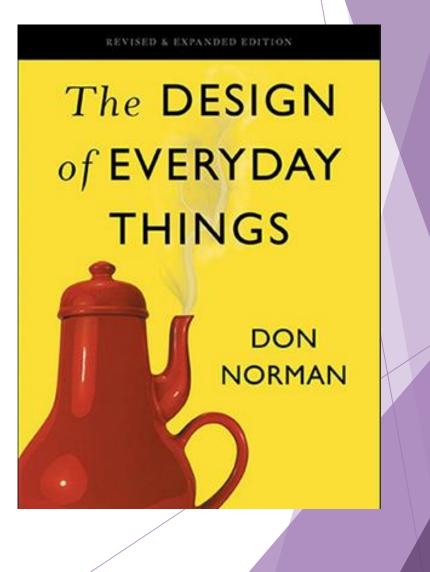
Good design



The best design is one that needs no instructions

Design is about *communication*

- Don Norman is one of the world's most influential thinkers on design
- Worked at Apple, HP, IDEO
- "We must design for people the way they are, not the way we wish them to be"



User experience (UX) design

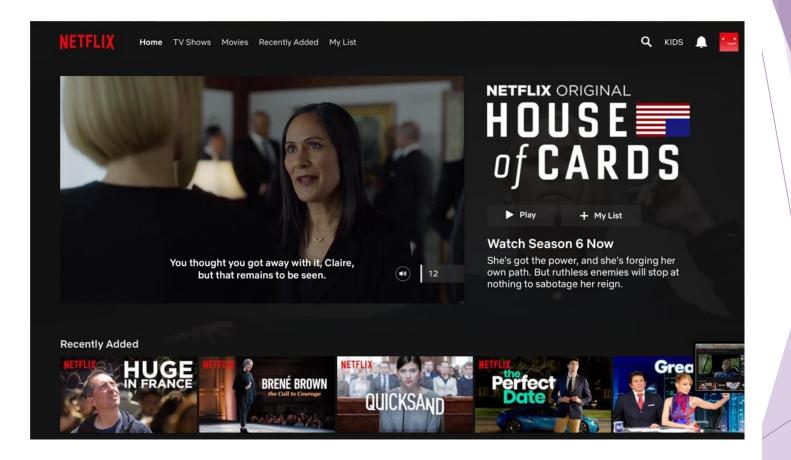
- A good UX design prioritises the needs and goals of the user, making it easy for them to accomplish tasks and achieve their objectives using the product
- The interface should be <u>aesthetically pleasing</u>, visually <u>appealing</u>, and easy to navigate
- The user should <u>feel confident and in control</u> when using the product

User experience (UX) design

- Bad UX design is characterised by a disregard for the user's needs and goals
- The design may be <u>cluttered</u>, <u>confusing</u>, <u>and</u> <u>challenging to navigate</u>, causing frustration and even anger
- As a result, the user may feel lost or overwhelmed, and the design may not effectively support their tasks and goals

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v	Trinidad And Tobago Turkey Turks and Caicos Islands Ukraine United Arab Emirates United Kingdom / United States Uruguay	¢	
	Vanuatu Vatican City Venezuela	Last Name*	

 Super-long drop-down menus without sub-headings or filters



 Netflix's hover auto-play – starts playing a trailer when you just want to read about the programme



 What are my options here? What happens if I hit 'Done'? And now I've missed the photo opportunity



This is the Zara home page – where do I find anything?

Attract 🖗 Stays	ions	Ш	E Air	port t	axis										
Eind your port stay															
Find your next stay															
earch deals on hotels, homes, and much	n mo	ore.													
							-							_	
Reference are you going?		Chec	k-in	- Cł	neck-	out	-	2 ad	luits	0 cł	ildren	1 - 1	room	9	Search
I'm traveling for work			Febru	Jary	2023	2				Mar	ch 2	022		>	
	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa	Su	
Get the advice you need. Check the latest COVID-19 rest		1	2	3	4	5	6		1	2	3	4	5	6	
		в	9	10	11	12	13	7	8	9	10	11	12	13	
	14	15	16	17	18	19	20	14	15	16	17	18	19	20	
		22	23	24	25	26	27	21	22	23	24	25	26	27	×
Discover Early 2022 Deals Kick off your new-year travels with 15% off stays	21							28	29	30	31				

 Features like drop-down calendars don't work with screen reader software, making websites inaccessible to blind or partially sighted people

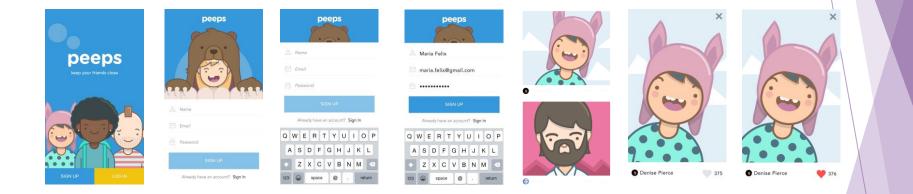
prototyping

What is a prototype?

- A Prototype is an early sample, model, or release of a product built to test a concept or process.
- A prototype is generally used to evaluate a new design
- Helps build a real system
 - Find issues early
 - User / customer feedback

Prototyping examples

Marvel Prototype App



Pages for Marvel Prototype

CONFO	CONFOUD	CONTO
No. IR. Desc tip Din Location. 1 BCS-10305 I-Beam #34 Yard II 2 11L-30007 Roof Girder yard II 3 KPM-11127 Cyclone #3 Main Depa 4 GGC-21206 Convergor-small Factory.	ID. BSC-10305 Desc. I-Bount#34 Desch I-B	MAR YOU: OFFICE DESTINATION: YAP DI AMYX. DURATION: 12 MIN
5 PLD - 06302 Metal sheet "Free-issue" 10 DSL - 62859 Epoxy store Rage 1 2 3 4 250 Nort	n Status: On site Location: Yard I.	Route: Your location Head west your with Turn left Toward Nd. 25 10M.

Contextual inquiry



Contextual Inquiry

Contextual Inquiry

- focused interview
- observation

Holtzblatt and Beyer

- core premise of CI is very simple
- go where the customer works
- observe the customer working
- talk to the customer about work
- results in a better understanding of your customer

What is a prototype - example

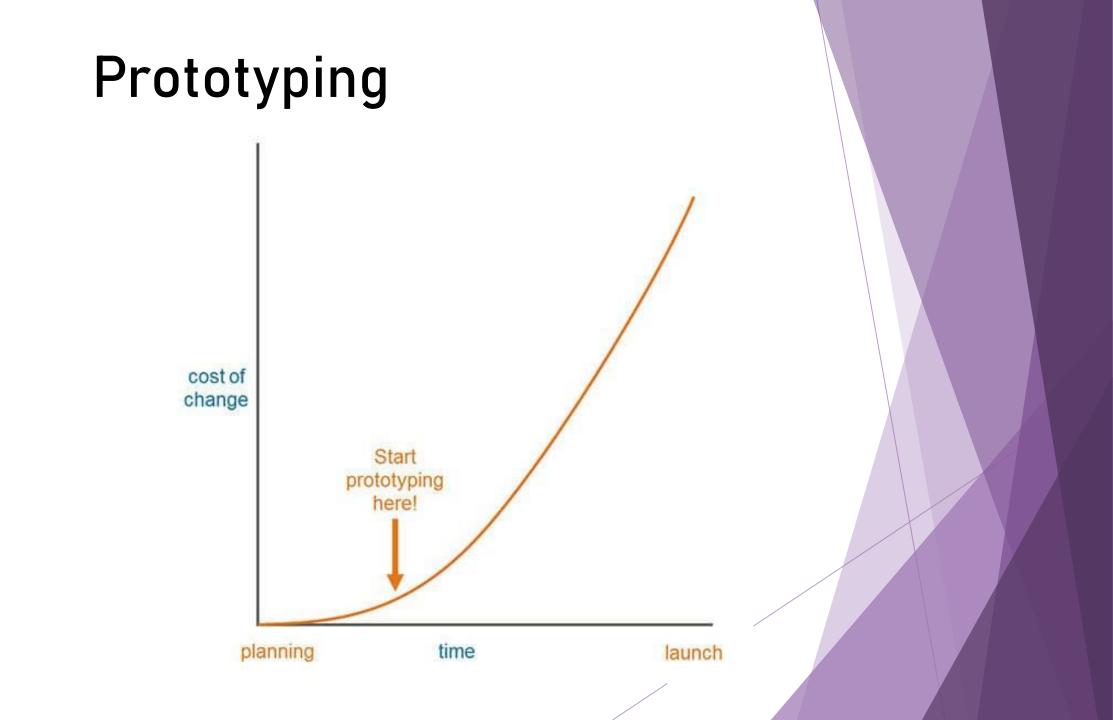
- Example: mobile phone apps
- Design process
 - Contextual inquiry
 - Modeling
 - Design
 - Evaluation

Contextual inquiry

- Ideas -> research idea
- Competition what exists, what could be improved?
- Who needs what?
- What is your solution?
- Why is it better?

Prototyping

- A prototype is an early sample, model, or release of a product built to test a concept or process
- A prototype is used to <u>evaluate a new design</u>.
 Prototyping serves to provide specifications for a real, working system rather than a theoretical one
- Used in a variety of contexts, including design, electronics, and software programming, and services
- Helps to <u>visualize a product/service</u> for users, and <u>get</u> <u>feedback</u>



Sketches/paper prototypes:

	We provide research-based UX guidance, by studying users around the world.
Kuconts	Recent Articles from NN/s Recent Articles from NN/s ArticLE 9 Ways to Encourage Employee Sharing and Engagement on an Intranet Date ArticLE Remote Usability Testing: Study Guide Date ArticLE 9 Ways to Encourage Employee Sharing and Engagement on an Intranet
VIACOS	Date O Date Jw to Sell UX: ranslating UX to Business Value

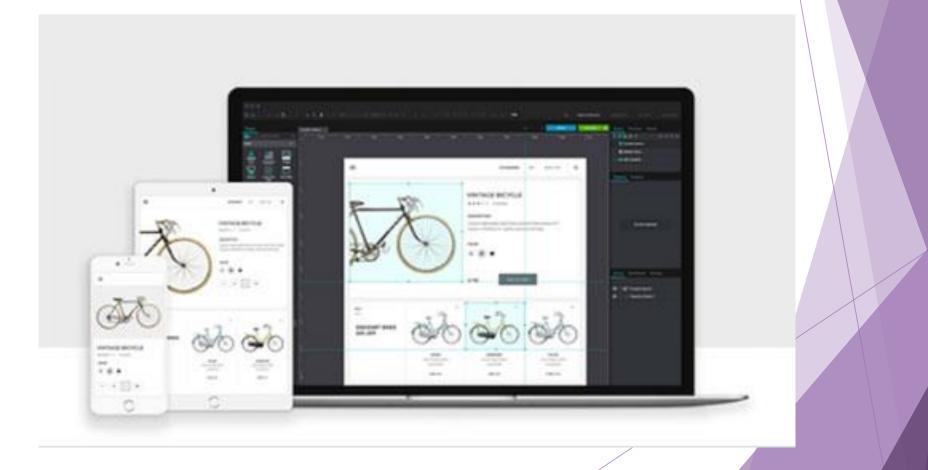
Sketches/paper prototypes:

- <u>Pros</u>:
 - Fast and cheap
 - Disposable
 - Easy to make changes and test new iterations
 - Allows a quick overall view of the product
 - Anyone can produce them
 - Encourage design thinking (later) since prototypes are obviously not finalized

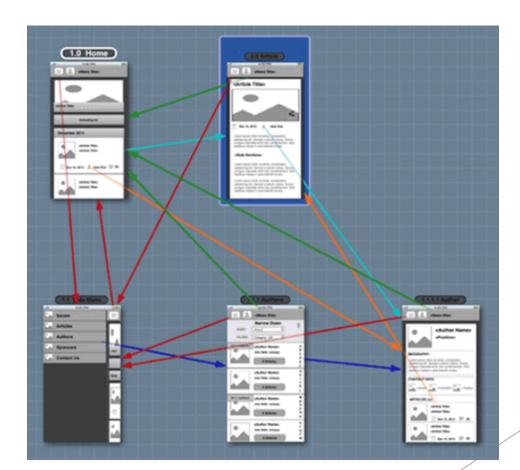
Sketches/paper prototypes:

- <u>Cons</u>:
 - Lack of realism, so users might have a hard time giving feedback
 - Hard to apply results from crude early versions
 - May be too basic to reflect the user experience of the finished product
 - Can oversimplify complex issues
 - Lack of interactivity deprives users of direct control
 - Users must imagine how they would use the product

Digital prototypes:



Clickable prototypes:



Digital/clickable prototypes:

- <u>Pros</u>:
 - Engaging stakeholders have the vision realized in their hands and can judge how well it matches users' needs and solves their problems
 - Testing will yield more accurate, more useful results
 - Versions closest to the final product enable you to predict how users will take to it in the real market

Digital/clickable prototypes:

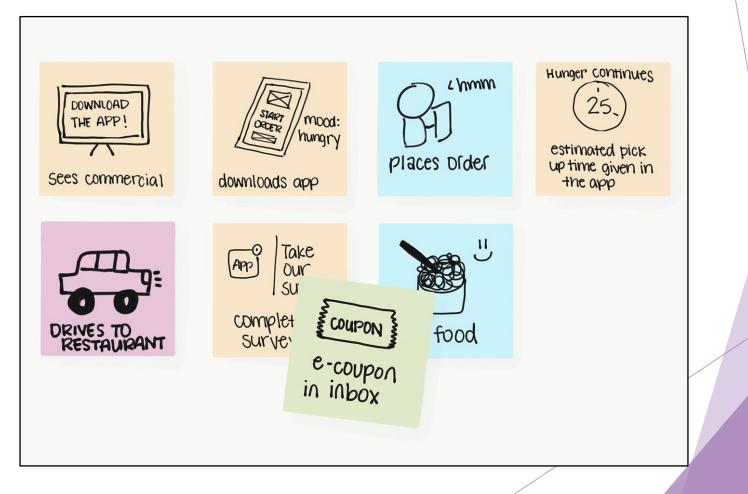
- <u>Cons</u>:
 - Takes more time/costlier to create
 - Users are more likely to comment on superficial details than on content
 - After hours of work, you the designer are likely to dislike the idea of making changes, which can take considerable time
 - Users may mistake the prototype for the finished product

Service prototypes

- <u>Storyboarding</u> the customer/user journey through your service
- <u>Service advertisement</u> a visualization of your service
- <u>Video prototyping</u> a film illustrating how your service could look
- <u>Desktop walkthrough</u> small-scale representations of service concepts and part of the service systems and processing by using handcraft materials and toys
- <u>Roleplaying</u> acting out the service with colleagues and/or potential users
- <u>Experience prototyping</u> allowing potential users to feel what a service could be like
- <u>Live service prototypes</u> pilot services to test out the idea in practice

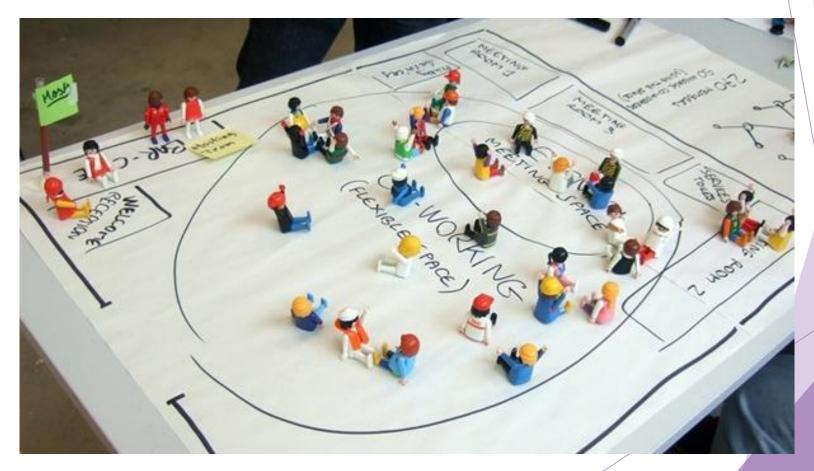
Service prototypes

E.g. Storyboarding:



Service prototypes

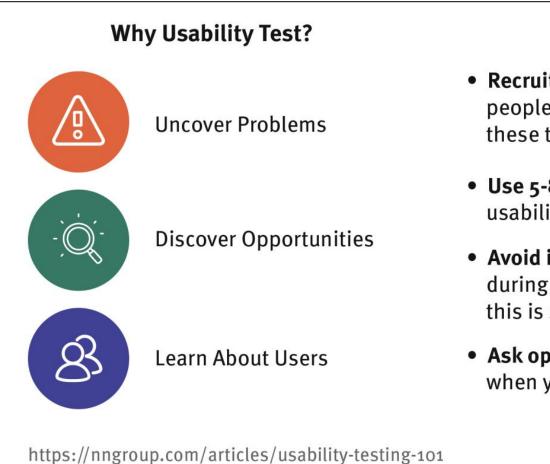
E.g. Desktop walkthrough:



Usability testing

- Watching users attempt activities is better than interviewing them about their behavior
- You will get a more truthful and accurate understanding of how they will try to use your product/service

Usability testing



Top Tips

- Recruit realistic participants people who would actually perform these tasks in real life.
- Use 5-8 participants for qualitative usability testing.
- Avoid influencing participants during testing. The easiest way to do this is stay quiet during the study.
- Ask open-ended, neutral questions when you speak to the participant.

Usability testing



Thank you! any questions?