Intro to UX Design

Theory & Practice

R. Scott Granneman & Jans Carton



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Notes

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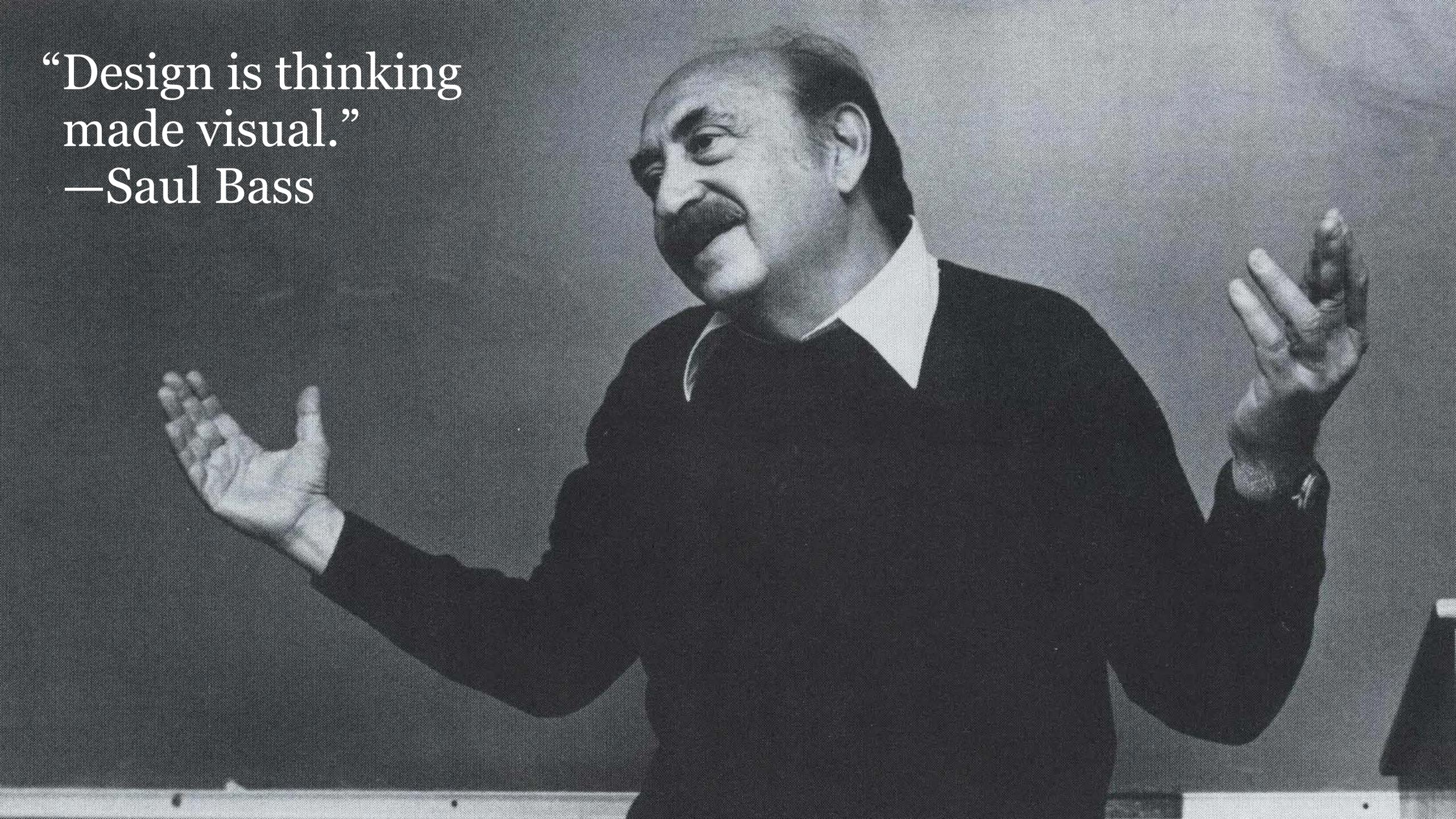
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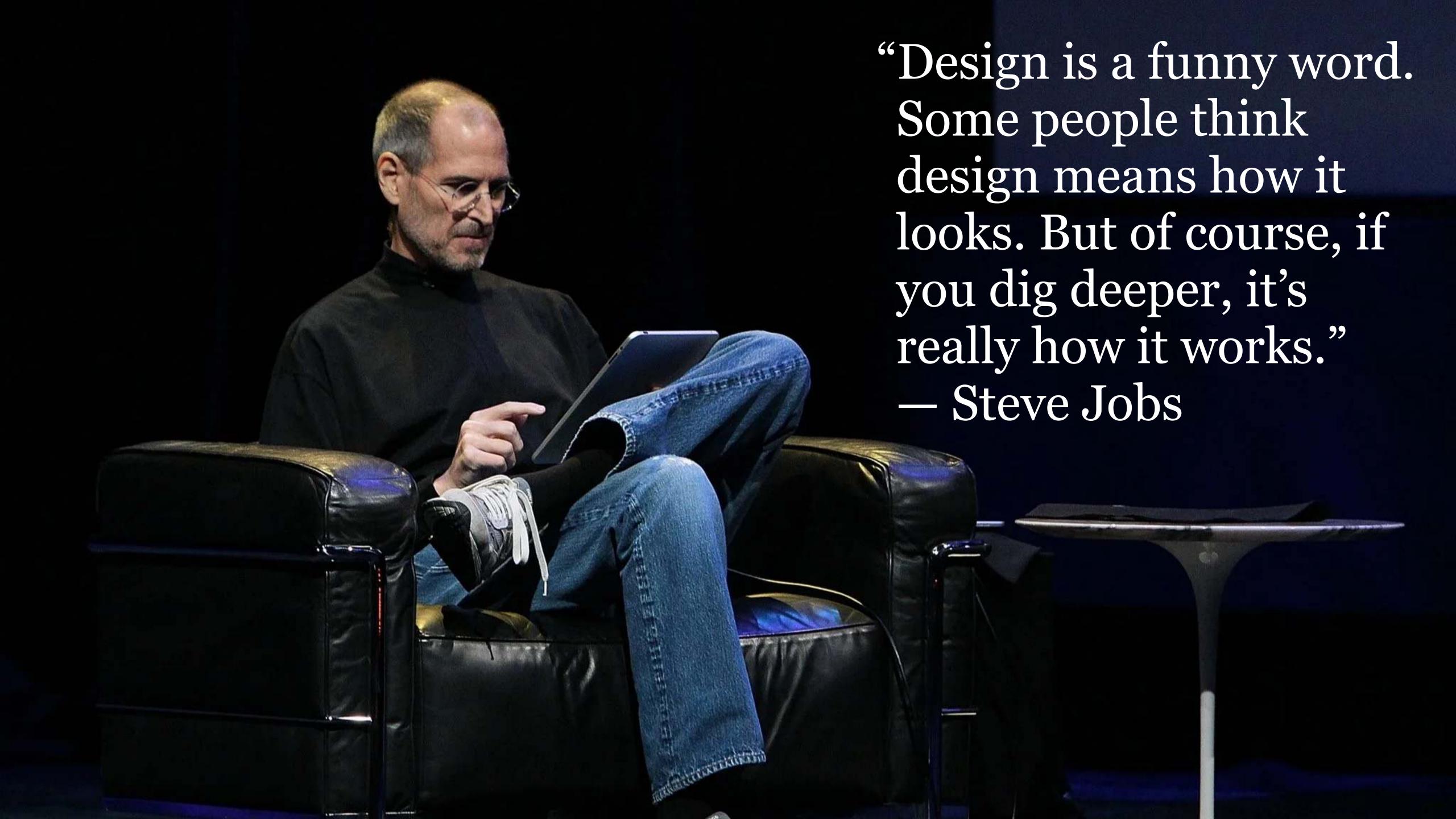
IF THAT DOESN'T WORK EITHER THAT'S BECAUSE WE'RE CLOSED











What is UX?



When you start talking to people or reading about UX Design, you're going to see a bunch of other related terms

HCI • HMI •

HCD • UCD • UI

• XD • Usability

A lot of people use some of these terms interchangeably

For instance, as you'll see, UX covers a lot more than just websites

Here, though, we'll mostly be looking at UX as it applies to websites, since the Web is the premier digital delivery tool of our time

Graphic Design

"Graphic design ... consists in projecting visual communications intended to transmit specific messages to social groups, with specific objectives. ... The role of the graphic designer in the communication process is ... the interpretation, ordering, and presentation of visual messages." —Wikipedia

The graphic designer can be involved with...

Web design • branding • color palettes • technical & artistic illustration • typography • signage • photography • layout & publishing • print production • packaging • iconography • infographics • image manipulation • storyboarding • video editing • 3D modeling • animation • VR • AR • presentation design • social media content • email newsletters • advertising • accessibility • programming • & more!

>267,200 working graphic designers in the United States

Projected that there will be ~21,100 job openings each year over the coming decade

Median annual salary in 2023 is \$58,910

Industrial Design

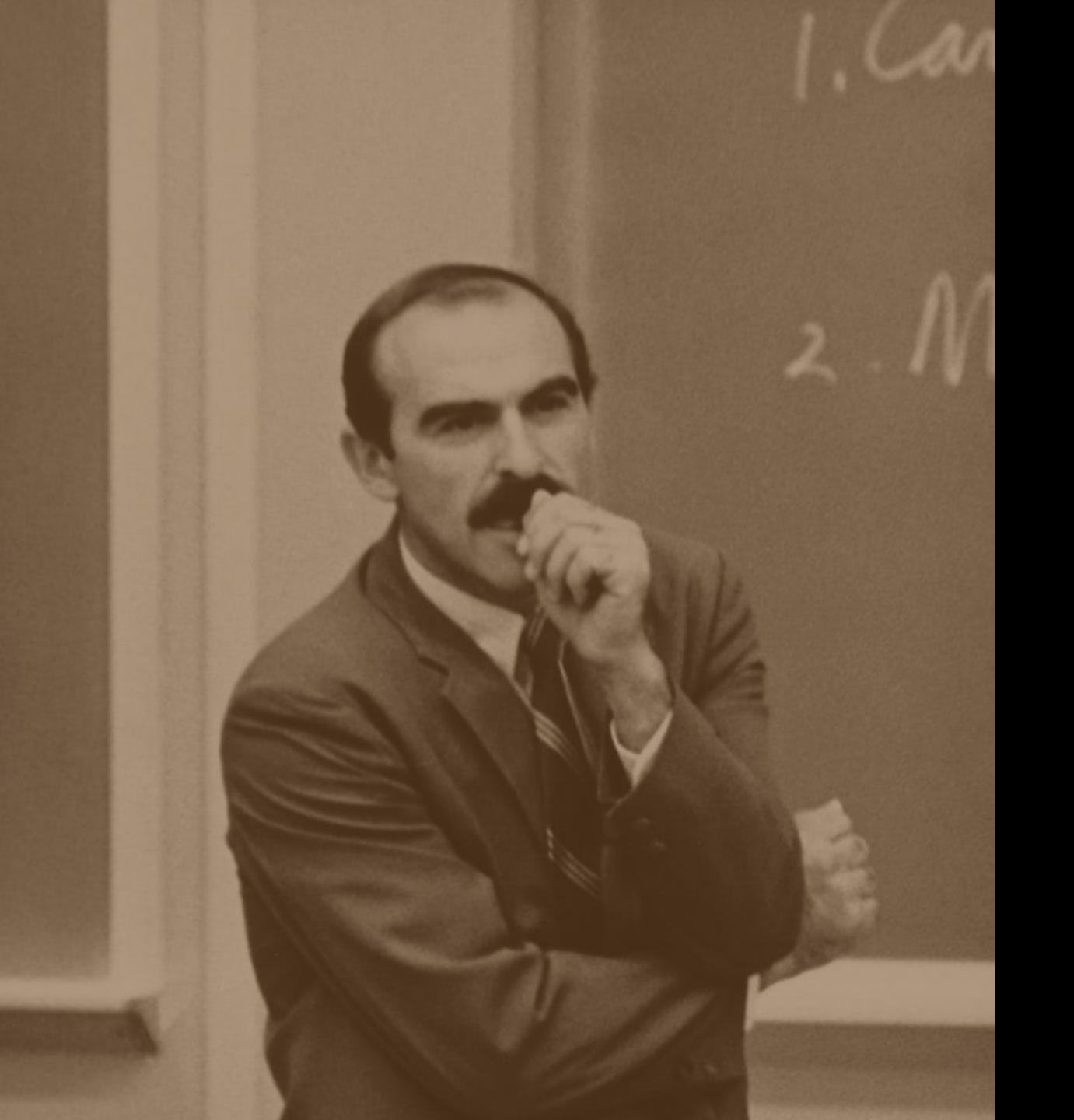
"Industrial Design is the professional practice of designing products, devices, objects, and services used by millions of people around the world every day. Industrial designers typically focus on the physical appearance, functionality, and manufacturability of a product... All of this ultimately extends to the overall lasting value and experience a product or service provides for end-users." —Industrial Designers Society of America

Common Skills

- » Drawing & sketching
- » 3D Modeling
- » 3D Rendering
- » User Research
- » Visual storytelling
- » Rapid prototyping & testing
- » Color, materials & finishes
- » Basic engineering & fabrication
- » Basic computer programming
- » Manufacturing processes
- » Marketing & branding

Practice Areas

- » Automotive & transportation
- » Consumer electronics
- » Furniture
- » Housewares
- » Environments & retail
- » Medical & healthcare
- » Toys & accessories
- » Commercial & industrial
- » Personal & lifestyle
- » Sports & recreation
- » ... and everything in between!



"People don't want to buy a quarter-inch drill. They want a quarter-inch hole." —Theodore Levitt, Harvard Business School >34,000 working industrial designers in the United States

Projected that there will be ~2,300 job openings each year over the coming decade

Median annual salary in 2023 is \$76,250

Top 3 states employing industrial designers: California, Michigan, & New York

UX User Experience Design

User Experience was a term using during 1970s & 80s, but mostly used by the HCI (Human Computer Interaction) community in relation to UCD (usercentered design)

In 1993, Don Norman joins Apple & selects his title as User Experience Architect

Because of the respect accorded Norman, the term became much more widely known & used

"I invented the term [User Experience] because I thought human interface and usability were too narrow. I wanted to cover all aspects of the person's experience with the system including industrial design graphics, the interface, the physical interaction and the manual. Since then the term has spread widely, so much so that it is starting to lose it's meaning." —Don Norman



Jakob Nielsen & Don Norman of the Nielsen Norman Group



"The first requirement for an exemplary user experience is to meet the exact needs of the customer, without fuss or bother. Next comes simplicity and elegance that produce products that are a joy to own, a joy to use.



In order to achieve high-quality user experience ... there must be a seamless merging of the services of multiple disciplines, including engineering, marketing, graphical and industrial design, and interface design."



"A UX designer is someone who investigates and analyzes how users feel about the products he or she offers them. UX designers then apply this knowledge to product development in order to ensure that the user has the best possible experience with a product."

—Interaction Design Foundation

UX Conference

NN/g

Nielsen Norman Group



UX Conference

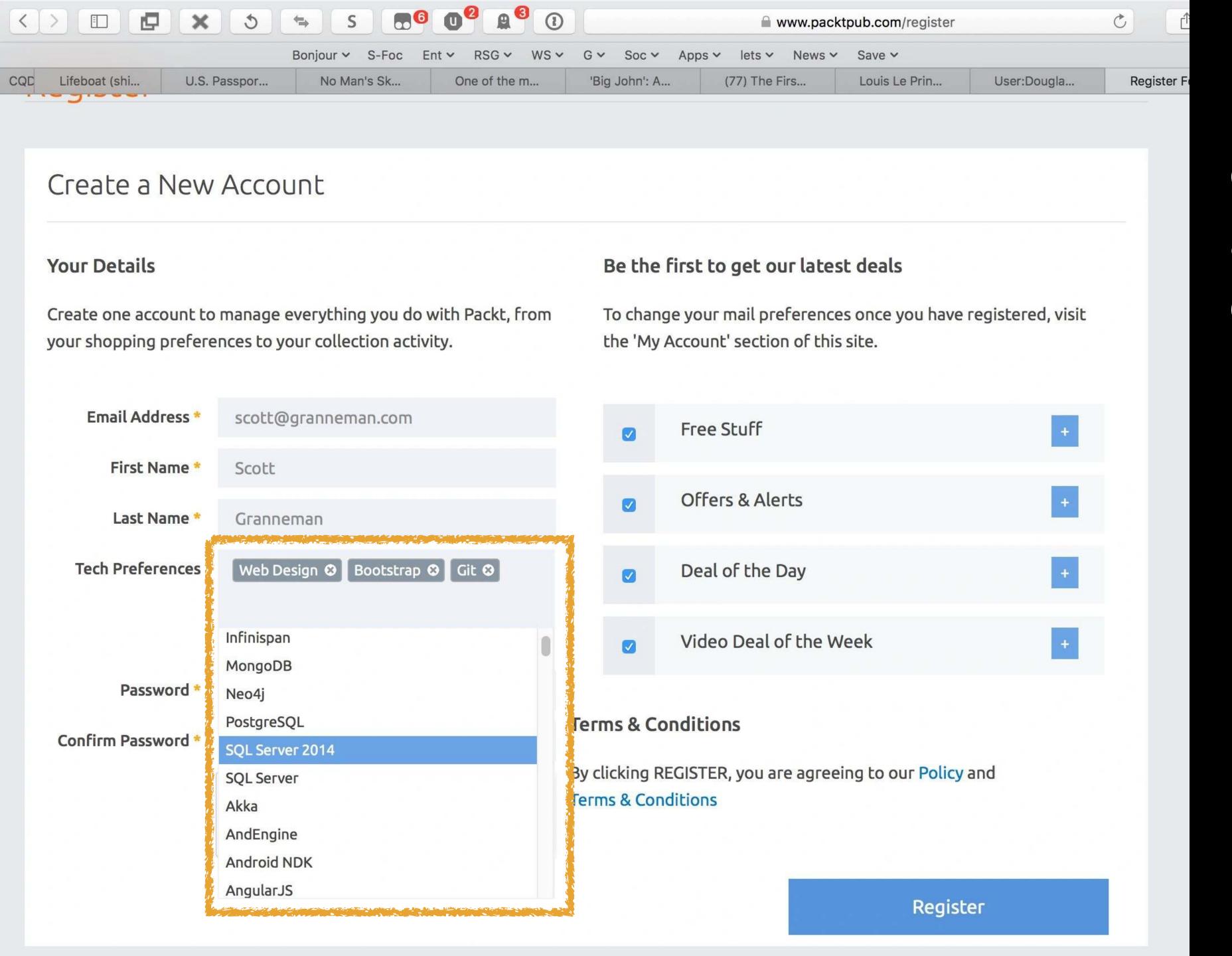
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Nielsen Norman Group



Usability

"Usability can be described as the capacity of a system to provide a condition for its users to perform the tasks safely, effectively, and efficiently while enjoying the experience. ... In human-computer interaction and computer science, usability studies the elegance and clarity with which the interaction with a computer program or a web site (web usability) is designed." — Wikipedia



Several hundred choices, not in alphabetical order!



PARKING AND TRANSPORTATION

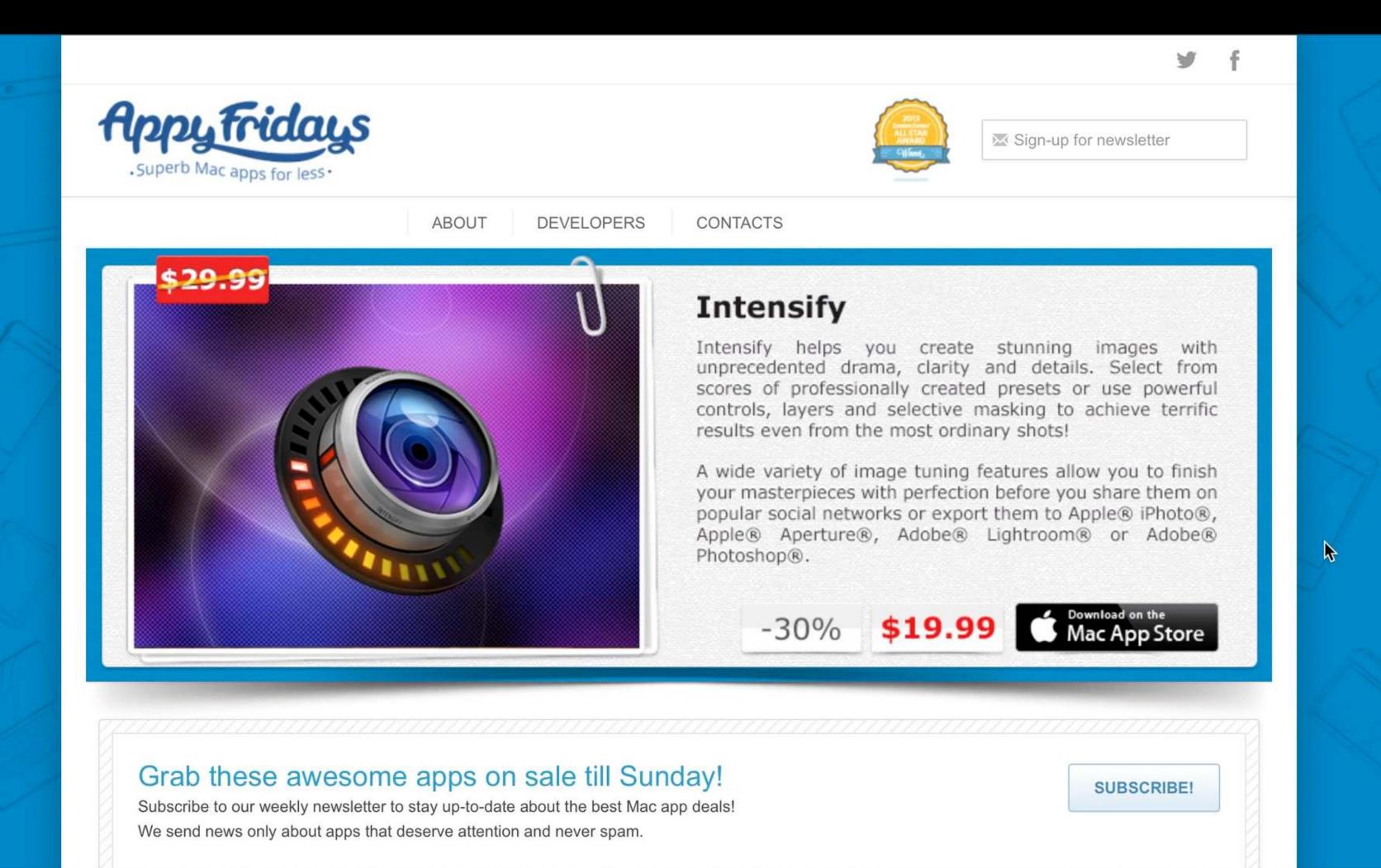
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Again, why aren't these colors in alphabetical order?

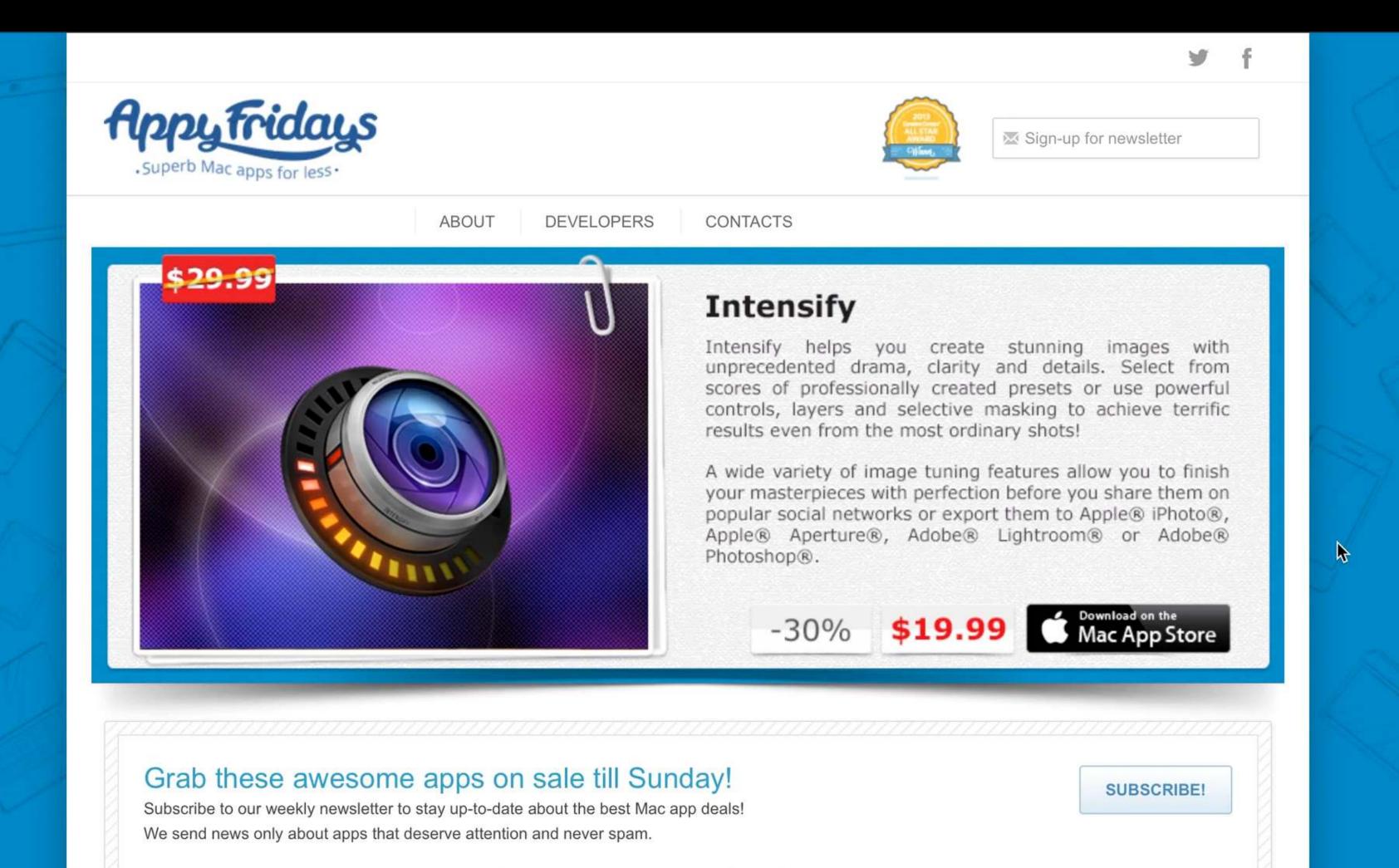
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This encourages the use of bad passwords that are easy to type



What do you expect to happen when you click a right arrow in a carousel?



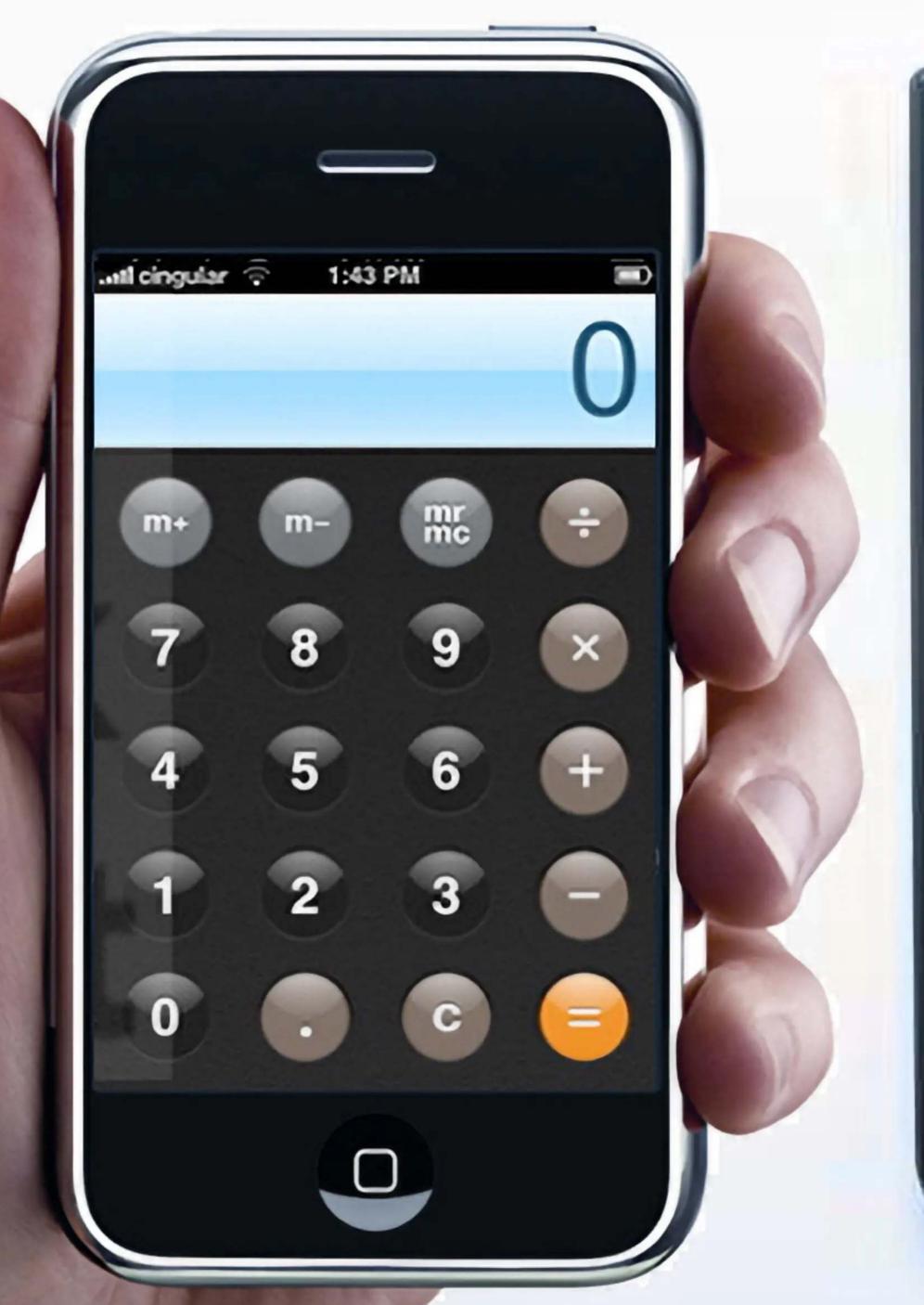
What do you expect to happen when you click a right arrow in a carousel?

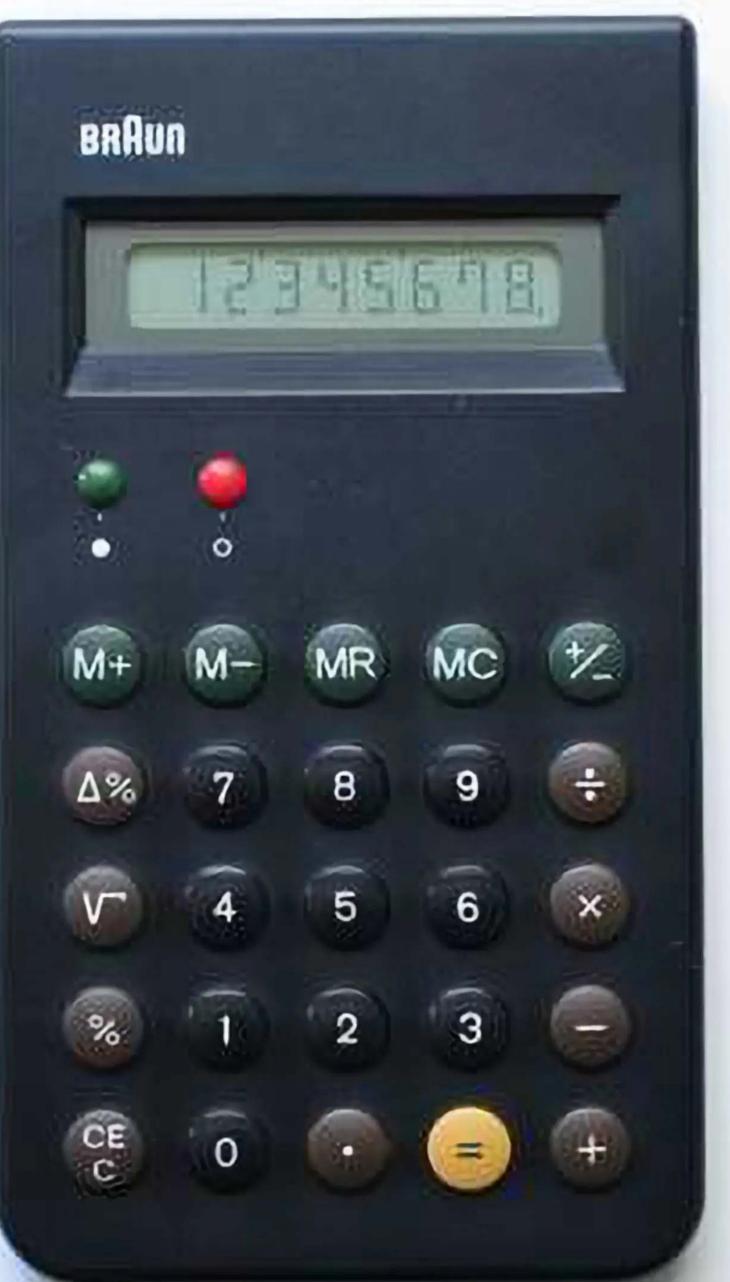
User Interface Design

A user interface (UI) is any system's point of contact with a human being



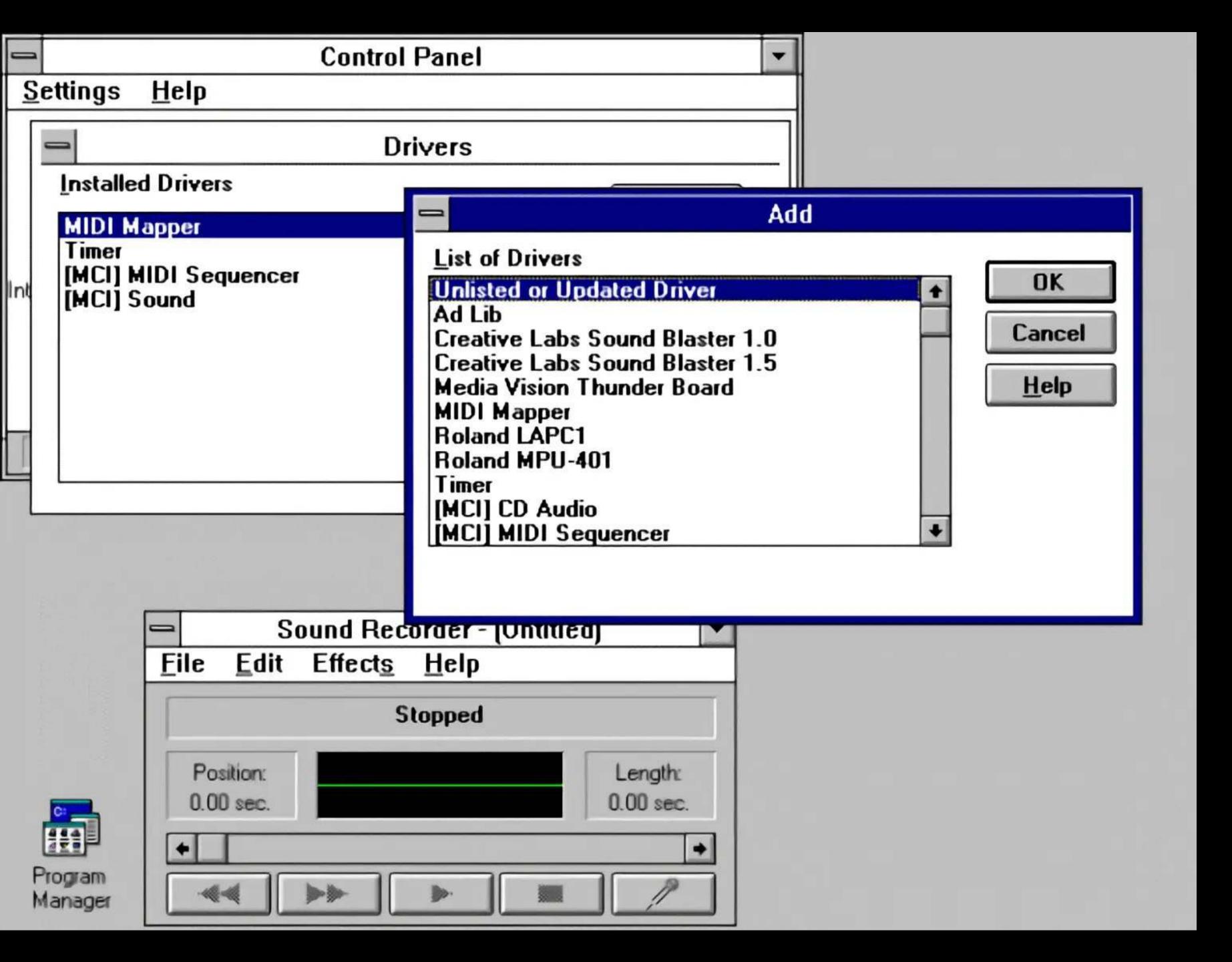
"User interface (UI) design is the process designers use to build interfaces in software or computerized devices, focusing on looks or style. Designers aim to create interfaces which users find easy to use and pleasurable. UI design refers to graphical user interfaces and other forms — e.g., voicecontrolled interfaces. ... UI design is more concerned with the surface and overall feel of a design." —Interaction Design Foundation



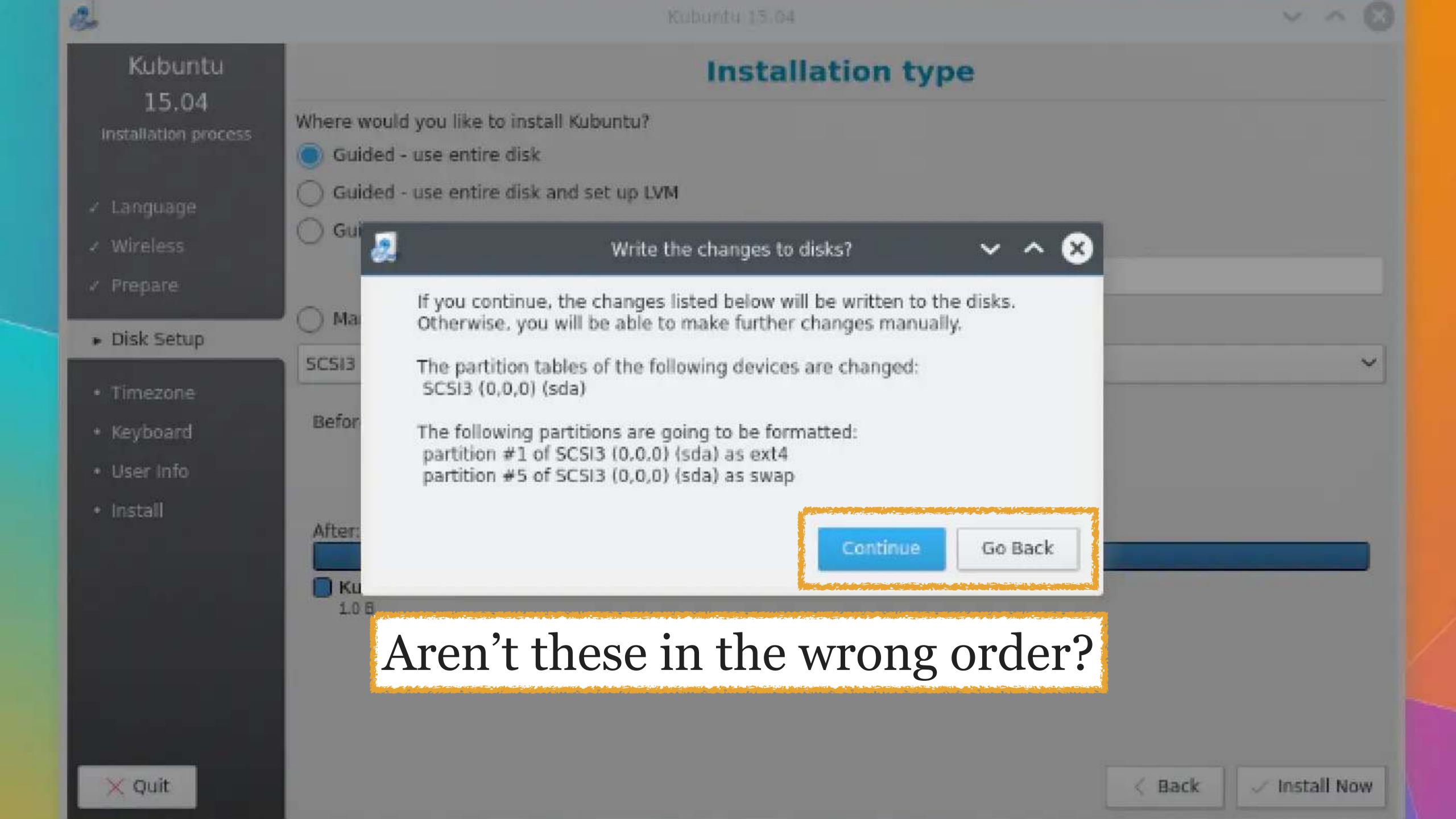


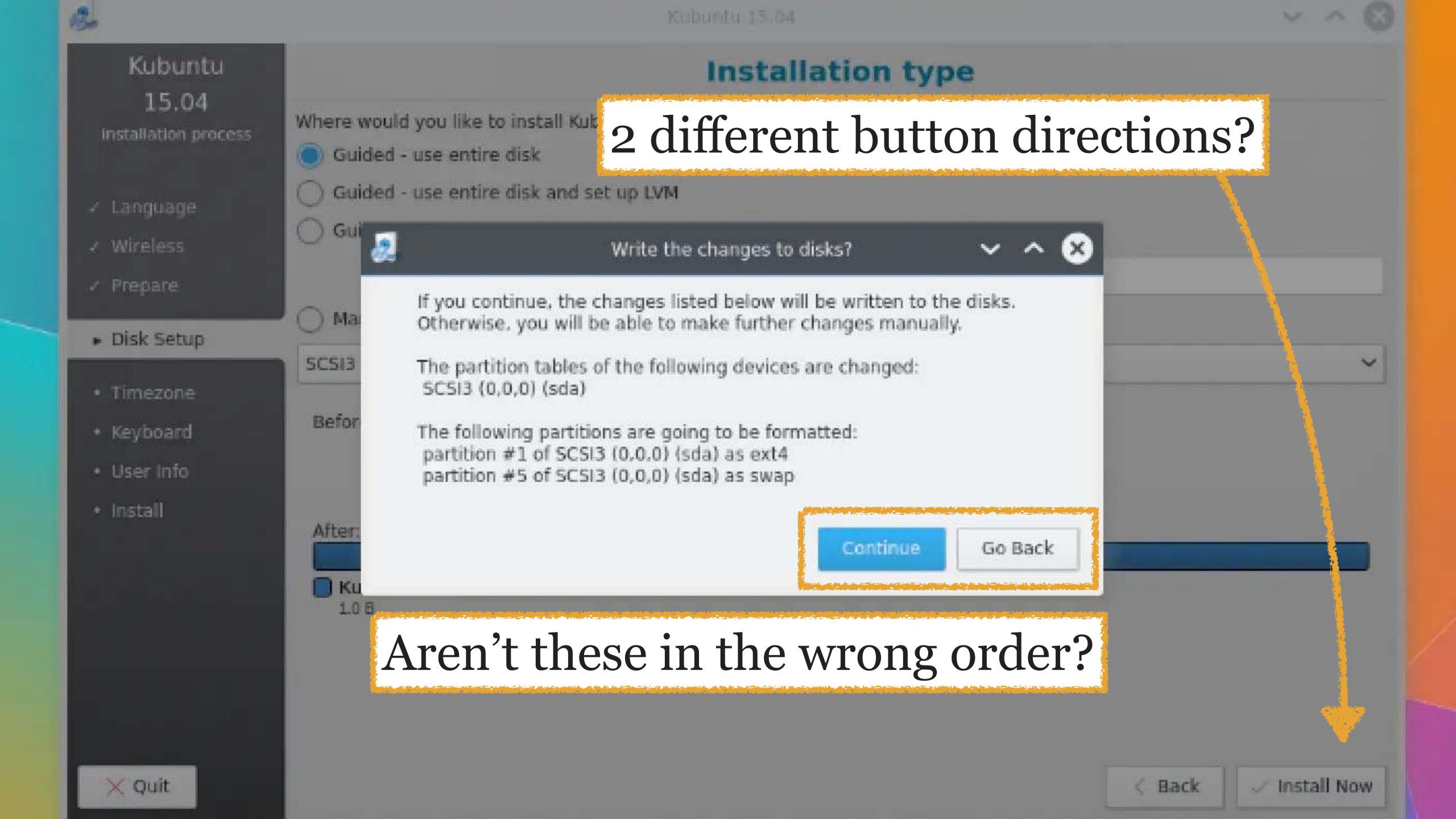
The Calculator app on the original iPhone was inspired by Braun's ET66, designed by Dieter Rams

From 1987 to 2007 — a 20year journey



We tend to think of computers when we think of UI







Tagliatelle Recipe Ingredients

Craving pasta? Here's what you'll need to make this recipe:

- Tagliatelle pasta I love the texture of the egg pasta in this recipe, but if you're vegan, substitute your favorite egg-free pasta for the tagliatelle.
- Asparagus If you can find them, use thin, tender spears in this recipe.
- Peas They add delightful pops of sweetness, so try to get a few in every bite!
- **Herbs** This springen pasta is all about the herbs! I add agon, and basil or mint to pack it
- **Lemon** To brig I season the sautéed aspa<u>ragus and peas w</u>ith a squeeze

Voice needs UI as well!

Discoverability
No visible menus or buttons to guide the user

Memory load
Users have to remember commands or phrases

Turn-taking & interruptibility
Does the system allow interruptions? Does it listen too
long or not long enough?

Ambiguity & misunderstanding Spoken language is vague, messy, & full of homophones & nuance

Feedback & confirmation Without visuals, how do users know if their command was understood correctly?

Context awareness
System needs to understand who, when, or where is speaking: "Play my playlist" (who is "my"?)

Visual support might be needed
Some tasks need visual support, e.g., shopping

Accessibility

Not everyone speaks clearly or is fluent in the expected language

Privacy & security

Speaking out loud isn't always private, & the device is always listening

Latency

System needs to respond quickly to input & with answers



Physical UI is very important too

Includes buttons, knobs, switches, dials, sliders, handles, touchscreens, & more



Physical UI is very important too

Includes
buttons, knobs,
switches, dials,
sliders, handles,
touchscreens, &
more

Affordances

Does the object suggest what it does? A flat square button with no label or texture — do you push, swipe, or twist it?

Feedback

Does the user get confirmation something happened?

Ergonomics

Is the interface comfortable and usable by all?

Placement & reachability
Can the user find & access the control easily, e.g.,
emergency stop buttons vs touch panels in cars ??

Consistency & standards
Do controls behave as expected, like other, similar controls?

Precision vs. speed Does the interface support the right kind of input, e.g., knobs for precision & toggles for binary choices? Visibility & legibility

Can users see & understand what controls do, e.g., tiny fonts & similar controls that do different things?

Durability & maintenance
Will this break or wear out with real-world use?





Mismatch between affordance & instruction...





Affordance: how do you use the control? Push, rock, or hold?



Affordance: how do you use the control? Push, rock, or hold?



Affordance: how do you use the control? Push, rock, or hold?

Visibility: is a seat heater on or off?

Feedback: no tactile, visual, or auditory response



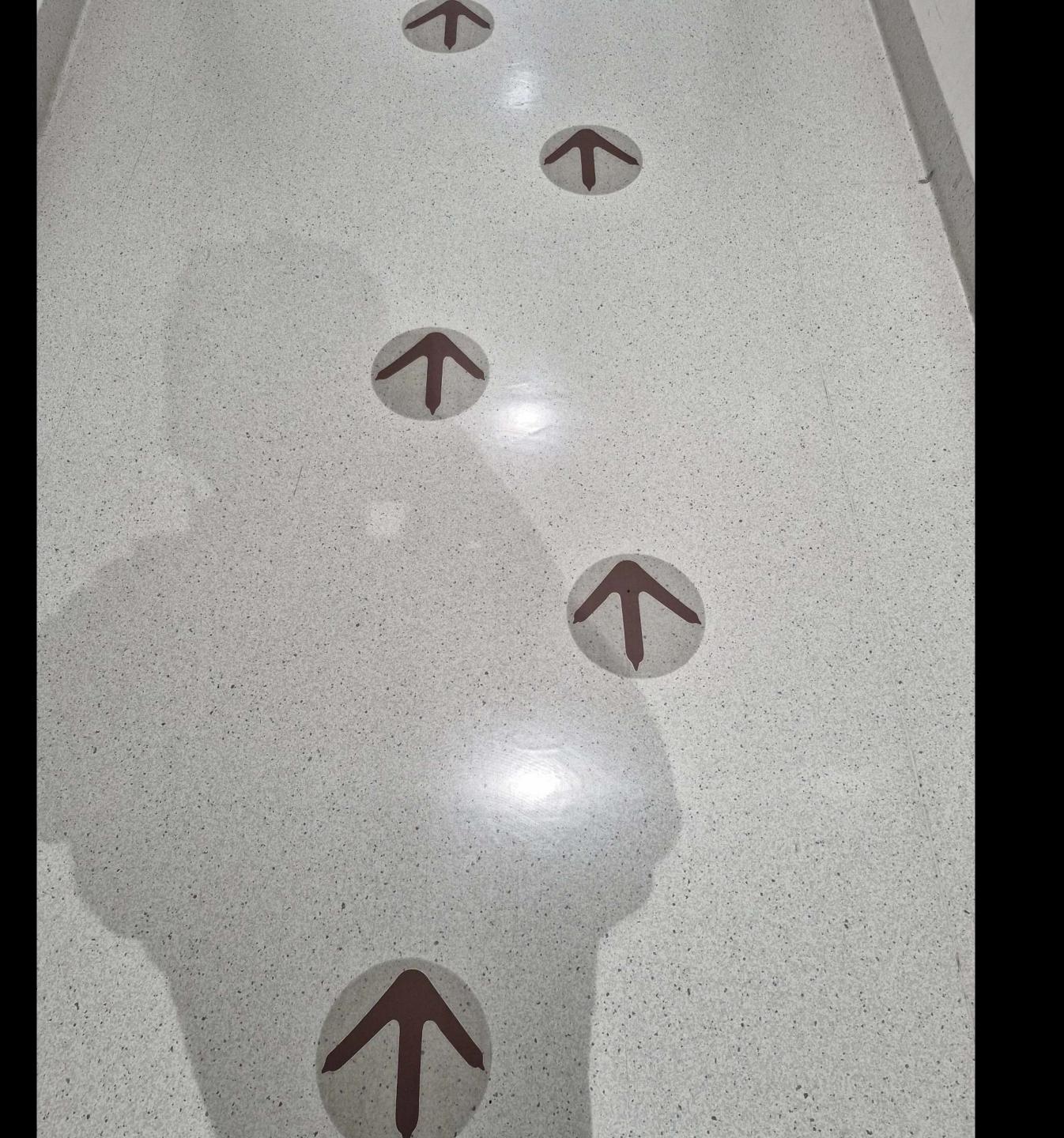


Affordance: how do you use the control? Push, rock, or hold?

Visibility: is a seat heater on or off?

Feedback: no tactile, visual, or auditory response

Mapping: vertical layout doesn't map with left & right!

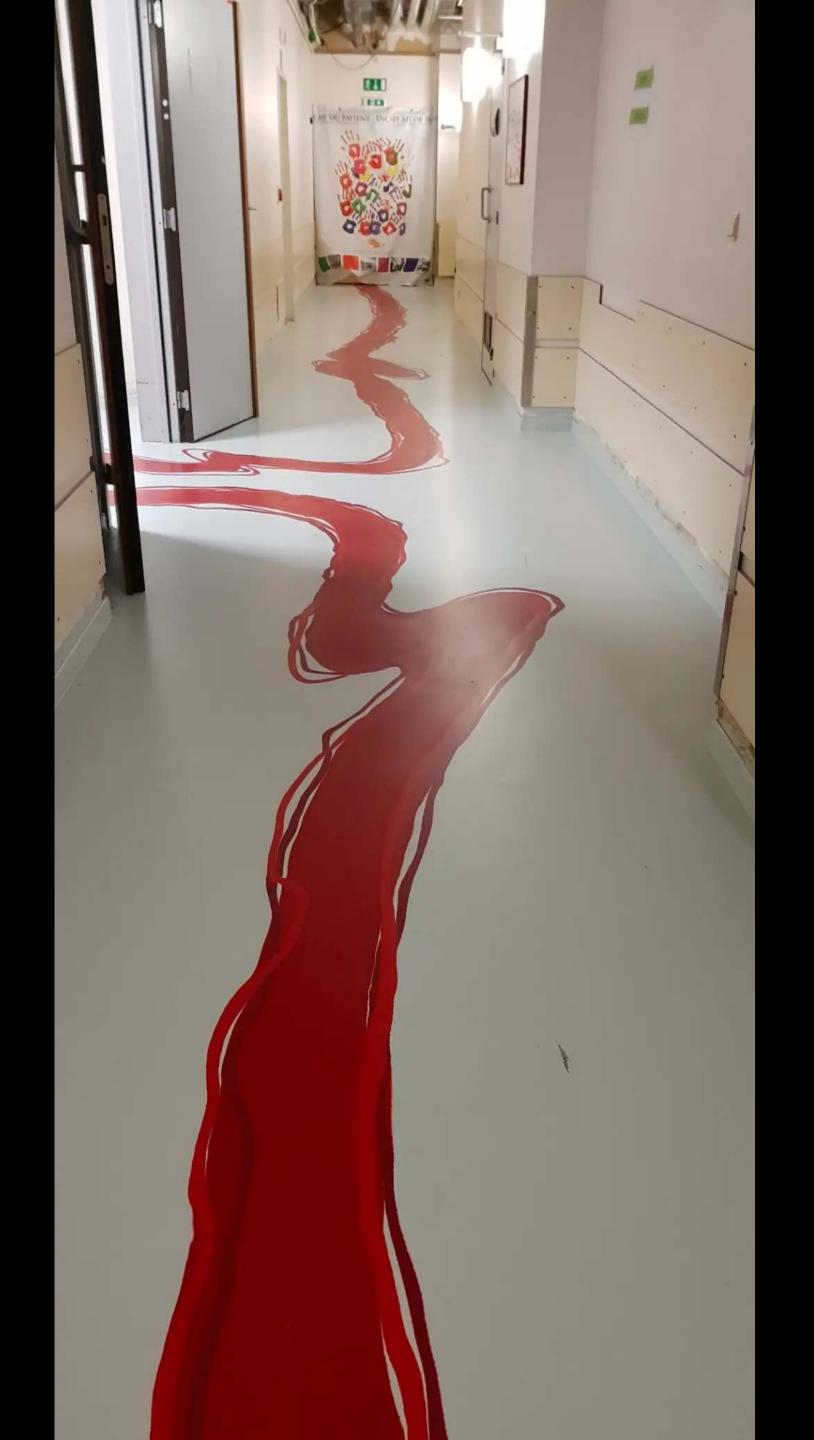


Kiwi footprints used as directional markers

You are supposed to go \$\sqrt{\pi}\$

Confusing affordance — no visual cue about the actual direction

Subverted conventions — "arrows" point in the wrong direction



This is at a children's hospital!!!

Red, smeared, apparently dragged → dead, bloody body! → so use clear, fun shapes (e.g., footprints or paw prints)

Context matters — hospitals are emotional, sometimes scary places, & blood can be really scary (+ murder!)

Other user interfaces

- » gestures e.g., hand waves to open doors
- » non-voice auditory e.g., beeps & boops
- » environmental e.g., lighting, automated faucets & dryers
- » cognitive e.g., heads-up displays, smart glasses
- » multimodal combinations of any of the above, e.g., smartwatches combine buttons + touch + haptics

"Unlike User Interface Design, which focuses solely on the design of a computer interface, UX Design encompasses all aspects of a user's perceived experience with a product or website, such as its usability, usefulness, desirability, brand perception, and overall performance." —Wikipedia





"Every time you redesign your app, you vaporize all the experience built up by everyone who's been using the current version. It better be fucking worth it."

—Athena Lilith Martin

HCD Human-Centered Design

Human-centered design has 4 principles:

- 1. People-centered
- 2. Understand and solve the right problems, the root problems
- 3. Everything is a system of interconnected parts
- 4. Small & simple interventions: continually prototype, test and refine your proposals to make sure that your small solutions truly meet the needs of the people you focus on





XD (Experience Design)

XD describes a hybrid discipline that focuses on environmental & multi-sensorial design, particularly in the area of digital displays & installations



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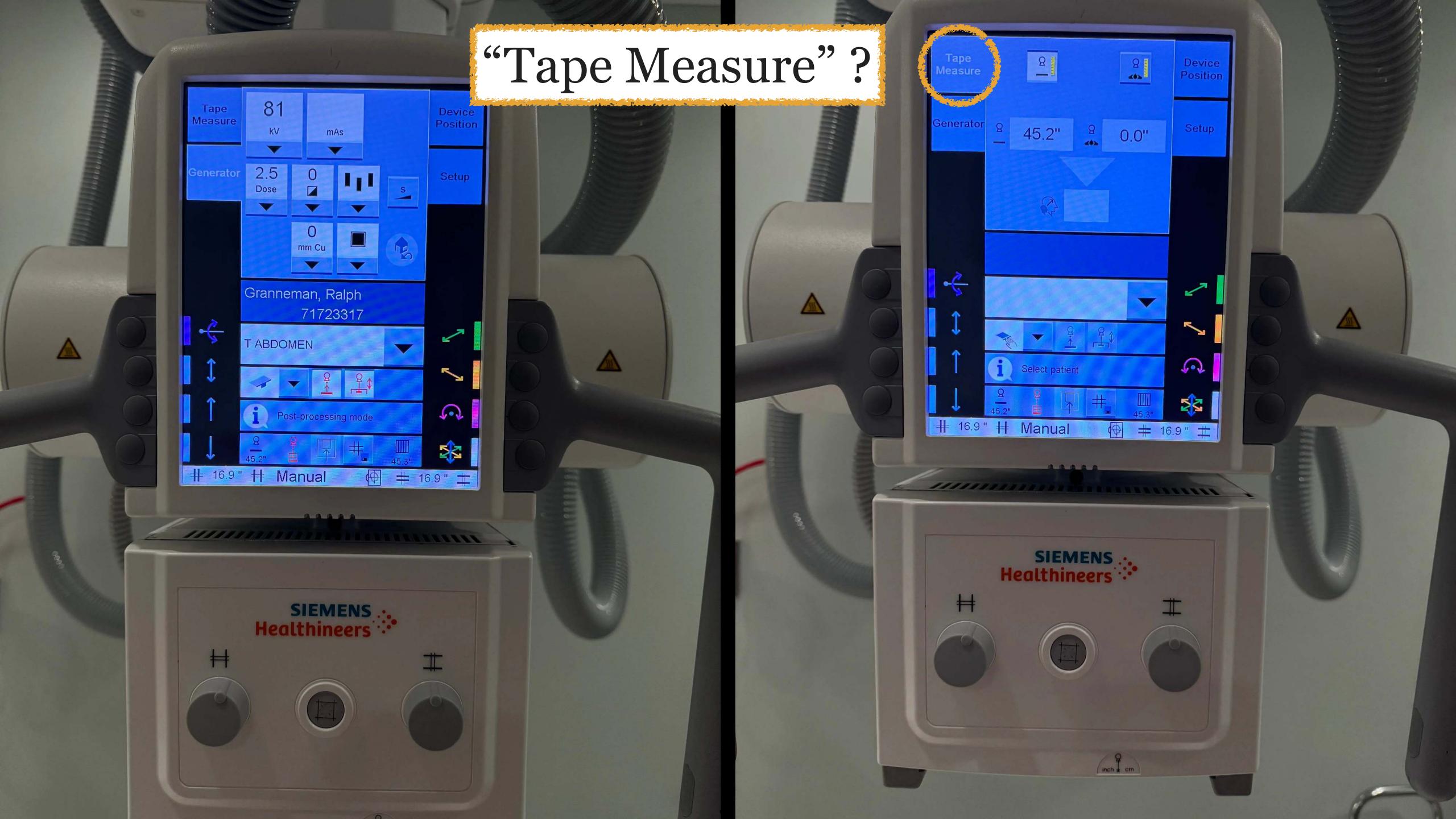
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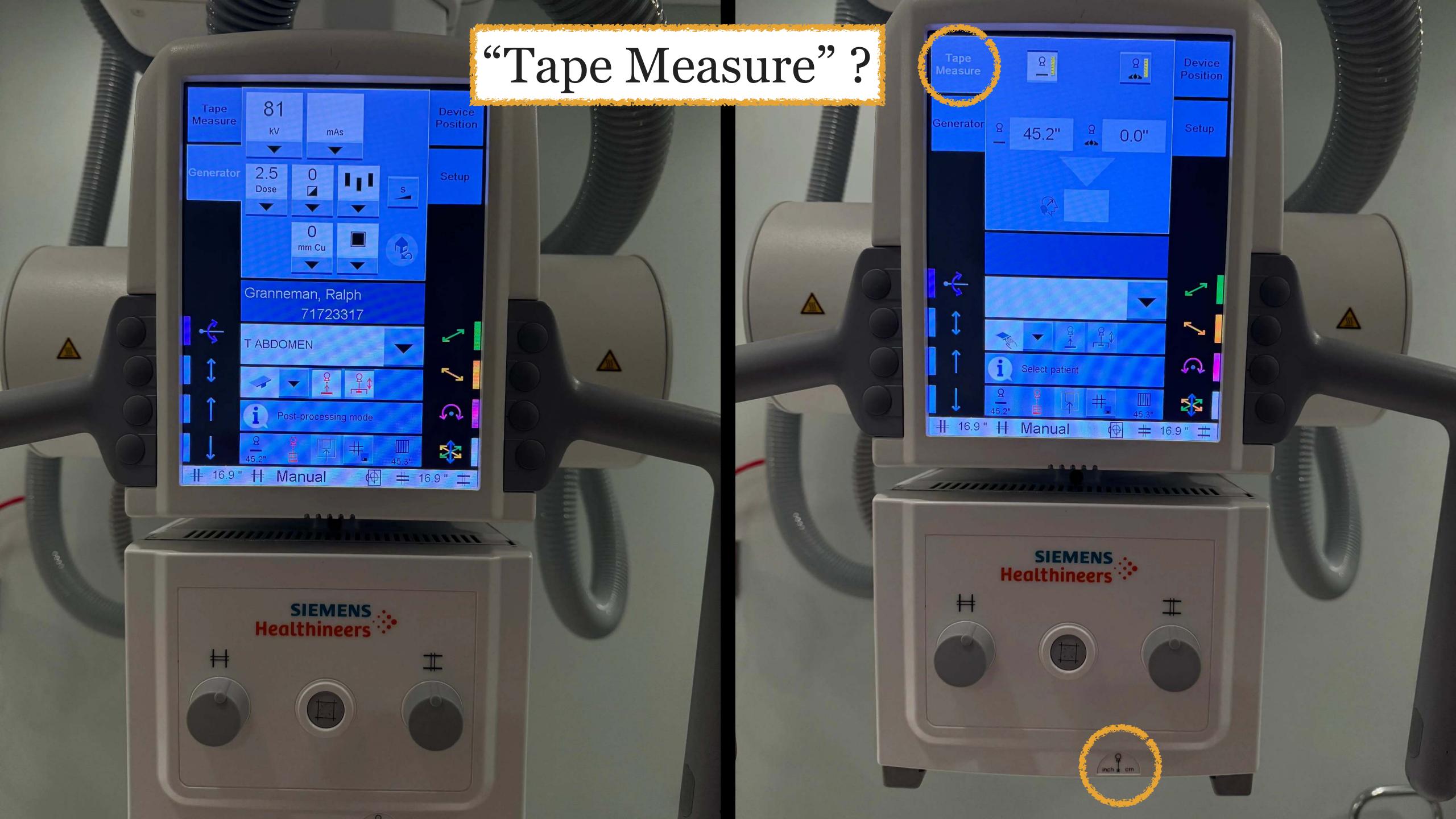
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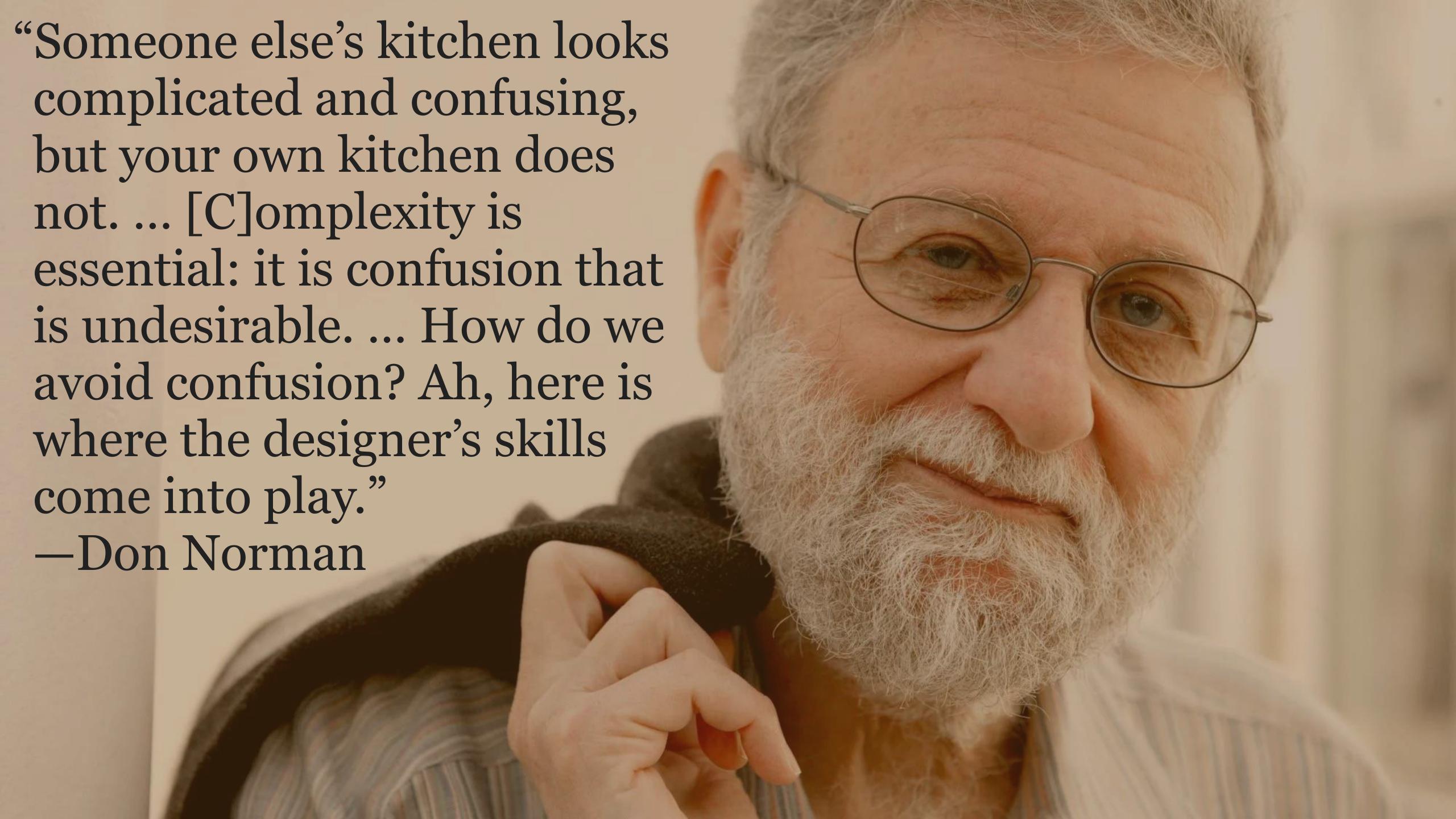
Tickets available

Tickets available

Complexity & Difficulty







Should anything be purposely difficult to use?

Should anything be purposely difficult to use?

Don Norman, in *The Design of Everyday Things*, points out several situations in which it is *necessary*

Doors to keep people — or other things — in or out





Security systems & areas available only to authorized users

Security systems & areas available only to authorized users



Dangerous equipment



Dangerous equipment



Secret doors, cabinets, & safes





Deliberate disruptions of normally routine actions





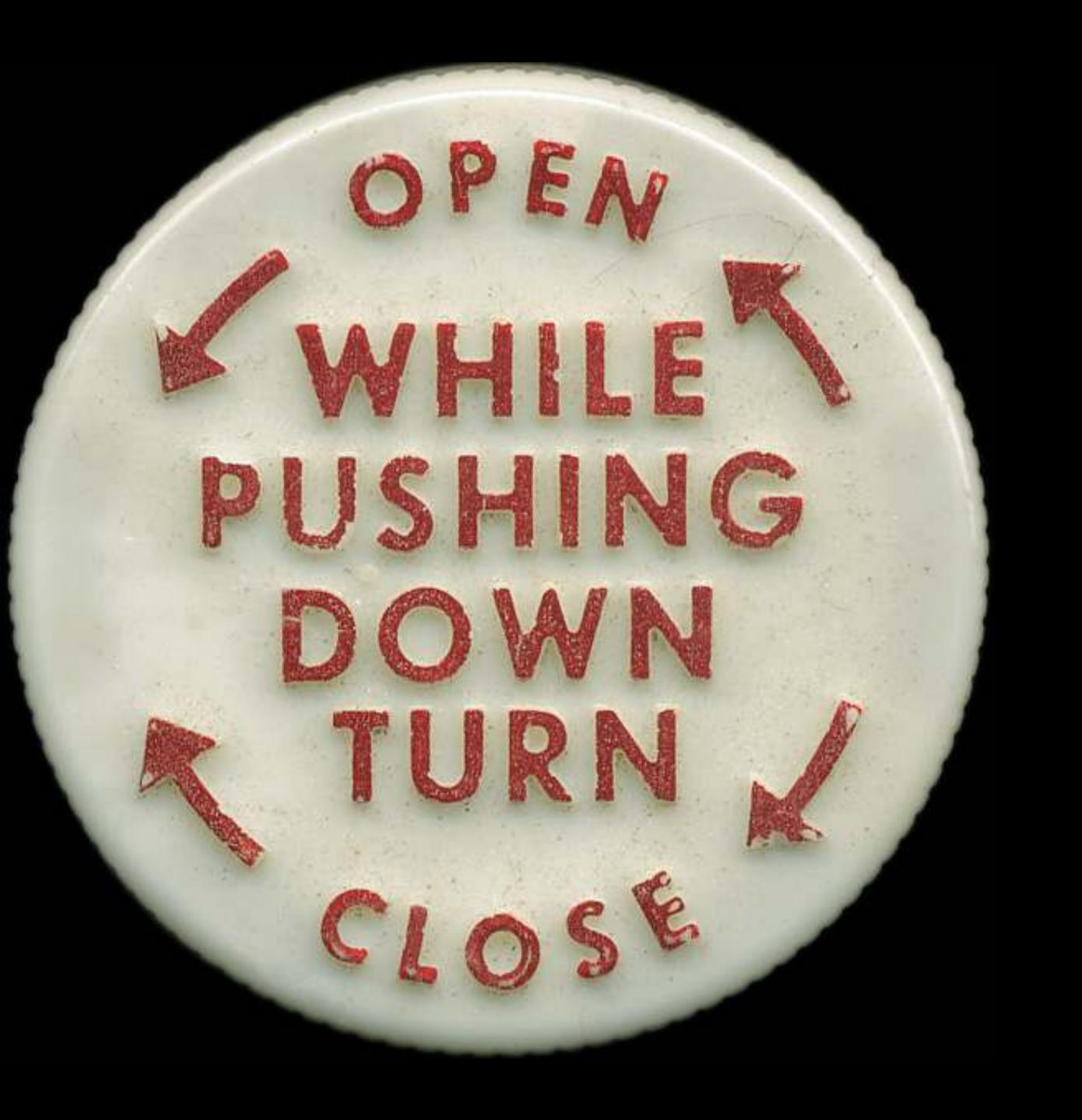
Are you sure you want to permanently erase the items in the Trash?

You can't undo this action.

Controls that require 2 people to operate them simultaneously & apart







Child-proof cabinets & bottles for medications & dangerous substances



Games in which you have to figure out what to do & how to do it

Lambda Core, from Half-Life (1998)



Games in which you have to figure out what to do & how to do it

Lambda Core, from Half-Life (1998) All those designs are purposefully difficult, however...

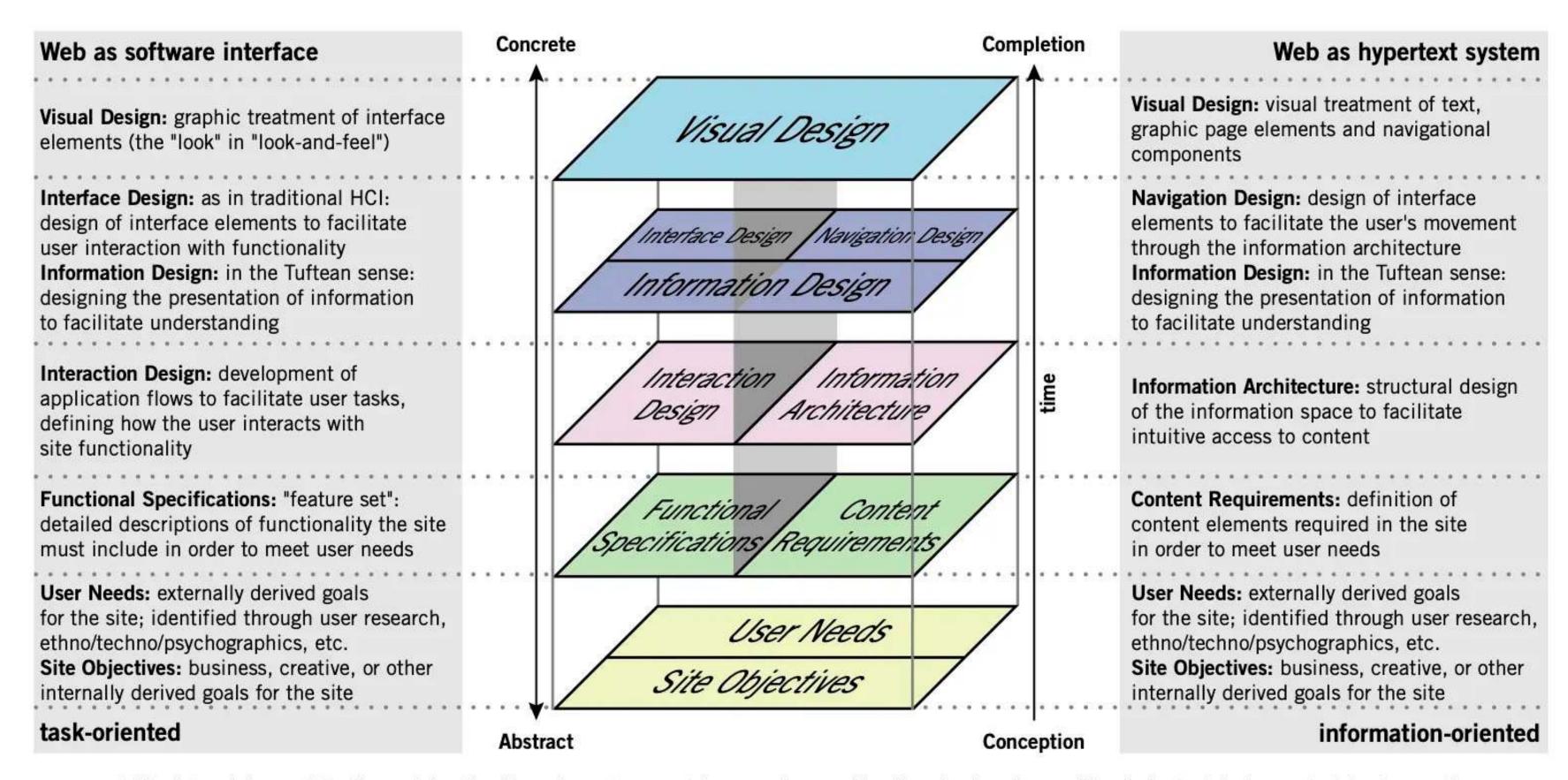
"First, even deliberately difficult designs aren't entirely difficult. Usually there is one difficult part, designed to keep unauthorized people from using the device; the rest of it should follow the normal principles of good design." —Don Norman

Our Course

30 March 2000

The Elements of User Experience

A basic duality: The Web was originally conceived as a hypertextual information space; but the development of increasingly sophisticated front- and back-end technologies has fostered its use as a remote software interface. This dual nature has led to much confusion, as user experience practitioners have attempted to adapt their terminology to cases beyond the scope of its original application. The goal of this document is to define some of these terms within their appropriate contexts, and to clarify the underlying relationships among these various elements.



This picture is incomplete: The model outlined here does not account for secondary considerations (such as those arising during technical or content development) that may influence decisions during user experience development. Also, this model does not describe a development process, nor does it define roles within a user experience development team. Rather, it seeks to define the key considerations that go into the development of user experience on the Web today.

Our course progressions

- 1. Theory \rightarrow Practice
- 2. Information Architecture → Wireframing & Prototyping → User Interface Design
- 3. Content! Content! Content!
- 4. Past → Present → Future

"In theory, there is no difference between theory and practice. In practice, there is."

—Don Norman



5 Whys

Developed at Toyota Motor Corp. in 1930s

How do you find the underlying cause for a specific problem?

Use the 5 Whys, an iterative interrogative technique

Often, what seems like the immediate problem is just a symptom

The actual problem — the *root cause* — lies much deeper & is often a process that isn't working well or doesn't even exist

The robot stopped

Why? The circuit overloaded, making a fuse blow.

Why? There was insufficient lubrication on the bearings, so they locked up.

Why? The oil pump on the robot wasn't circulating enough oil.

Why? The pump intake was clogged with metal shavings.

Why? There was no filter on the pump.

The caterer delivered food 2 hours late.

Why? We didn't prepare the purchase order on time.

Why? We did not get all approval signatures on time.

Why? We prepared the PO 3 days before the event.

Why? Because we forgot to prepare a Purchase Order.

Why? We don't have a checklist to clearly identify the tasks we need to complete at what time.

Some rules when using 5 Whys

Use paper or whiteboard instead of computers

Distinguish causes from symptoms

Look for the cause step by step & don't jump to conclusions

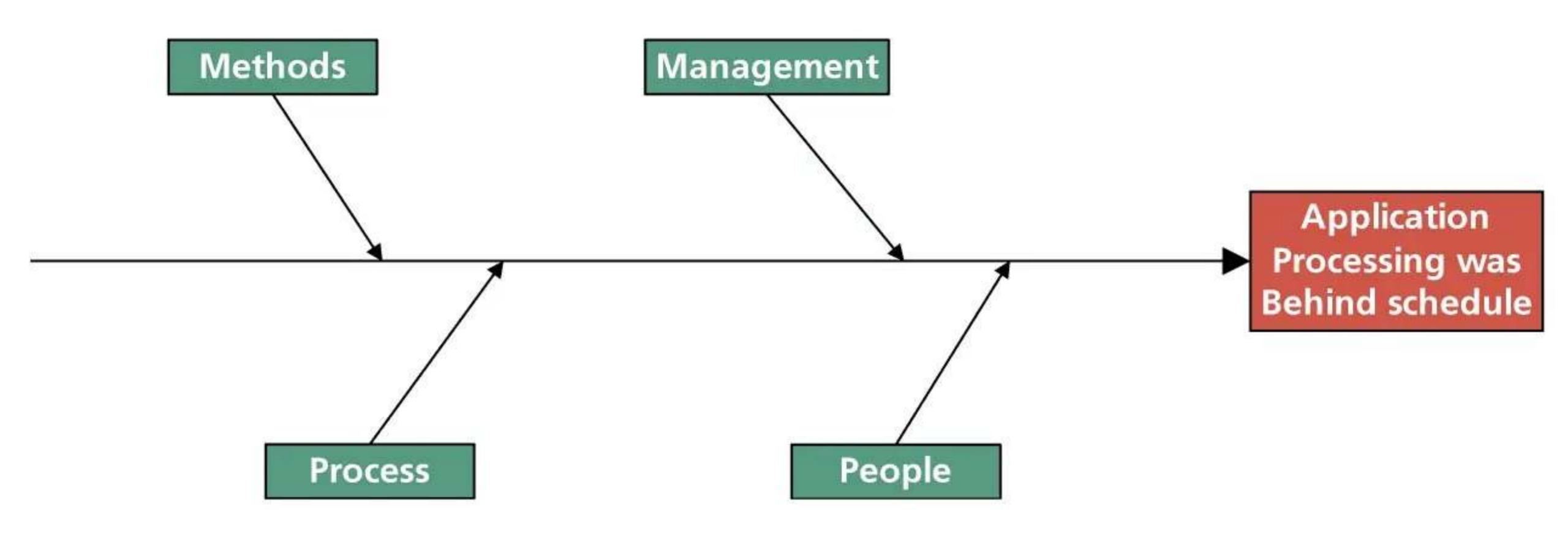
Base statements on facts & knowledge

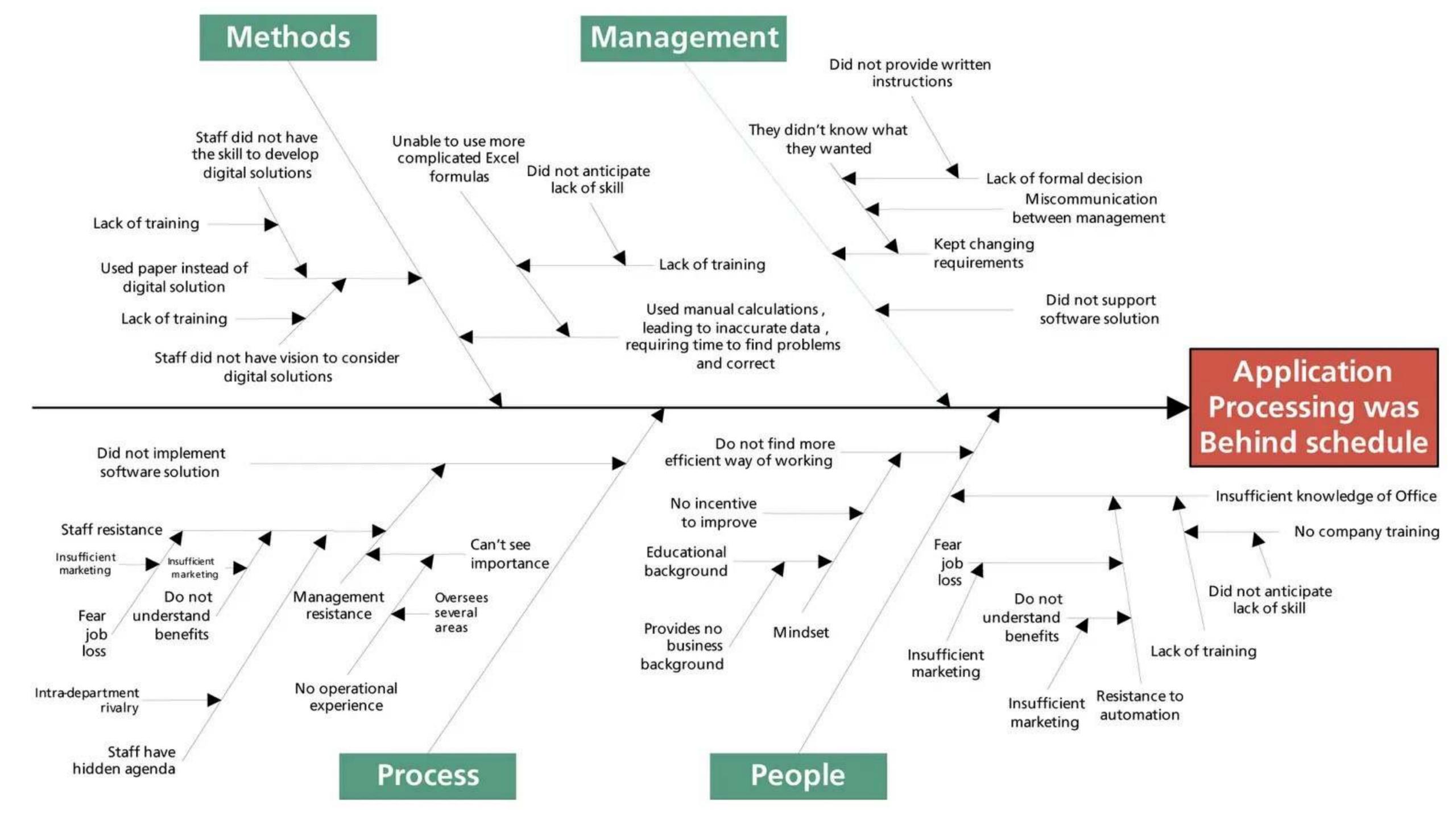
The root cause can never be things that cannot be improved or specific people; e.g., "human error", "worker inattention", or "Shannon in Accounting... again!"

5 Whys technique is very handy at the start of a design process, when you're trying to understand the nature of the problem

Often clients bring solutions — your job is to ask "Why?" until you get at the root cause or need

Another way to help visualize your 5 Whys analysis is the Fishbone (or Ishikawa) Diagram





Other common categories:

- » 3Ms & P: Methods, Materials, Machinery, People
- » 4Ps: Policies, Procedures, People, Plant
- » 6Ms: Machine, Method, Materials, Measurement, Man, Mother Nature (Environment)
- » 8Ps: Price, Promotion, People, Processes, Place/ Plant, Policies, Procedures, Product (or Service)*
- » 4Ss: Surroundings, Suppliers, Systems, Skills*

You can also use a spreadsheet for more complex or multiple branching 5 Whys analysis

٦	Α	В	С	D	E	F	G	Н		J	K
1	5-Why An	aly	sis								
2											
3	Problem:	Proc	essing of job requ	ests (delayed						
4											
5	Why 1		Why 2		Why 3		Why 4		Why 5	Root Cause	Recurrence Prevention
6											
7											
8											
9											
10											

5	Why 1		Why 2		Why 3		Why 4	Why 5
	There is no computerized	:	There was staff resistance		They were not explained the full		There was a lack of communication.	
6	solution to handle job			_	benefits of the	\rightarrow		
7					They feared being made redundant	->	They thought the computer system was designed to replace them.	
8				L	They were uncomfortable about changing the way they worked	7	They had always been doing it this way	
9							The positive aspects of the change were not communicated.	
	There was no formal set of procedures to handle job requests, and procedures were passed on by mouth as opposed to being		There was no system in place to do so.	>	The company grew at an exponential rate that there was no time to document anything.	->	There was insufficient planning	
10	documented.							

5	Why 1		Why 2		Why 3		Why 4		Why 5
	There is no		There was staff		They were not		There was a lack of	:	We assumed that
	computerized		resistance	_	explained the full		communication.		the benefits were
6	solution to handle job			Ľ	benefits of the				obvious.
					They feared being		They thought the		Because we didn't
					made redundant		computer system		tell them how it
				١.		_	was designed to		would help make
				P			replace them.		their jobs easier.
7									
					They were		They had always		All the work was
					uncomfortable about		been doing it this		done manually prior
				L	changing the way	_	way	\rightarrow	
8					they worked				
							The positive aspects		We assumed that
						L	of the change were	_	the benefits were
							not communicated.		obvious.
9									
	There was no formal		There was no		The company grew		There was		Top management
	set of procedures to		system in place to		at an exponential		insufficient planning		were too busy fire
	handle job requests,		do so.		rate that there was				fighting and dealing
	and procedures were	\rightarrow		\rightarrow	no time to document		→	\rightarrow	with operational
	passed on by mouth				anything.				work, rather than
	as opposed to being								developing a
10	documented.								strategy

5	Why 1		Why 2		Why 3		Why 4		Why 5	Root Cause
	There is no computerized solution to handle job	→	There was staff resistance	T	They were not explained the full benefits of the	\rightarrow	There was a lack of communication.		We assumed that the benefits were obvious.	Insufficient communication
7					They feared being made redundant	>	They thought the computer system was designed to replace them.		Because we didn't tell them how it would help make their jobs easier.	Insufficient communication
8					They were uncomfortable about changing the way they worked		They had always been doing it this way	•	All the work was done manually prior	No culture of change and sense of insecurity among staff.
9						L	The positive aspects of the change were not communicated.		We assumed that the benefits were obvious.	Assumptions made on our side led to insufficient communication.
	There was no formal set of procedures to handle job requests, and procedures were passed on by mouth as opposed to being documented.		There was no system in place to do so.		The company grew at an exponential rate that there was no time to document anything.		There was insufficient planning	->	Top management were too busy fire fighting and dealing with operational work, rather than developing a strategy	Poor work delegation and advanced planning

5	Why 1		Why 2		Why 3		Why 4		Why 5	Root Cause	Recurrence Prevention
	There is no computerized solution to handle job applications	\rightarrow	There was staff resistance	┲	They were not explained the full benefits of the system		There was a lack of communication.			Insufficient communication	Develop a communication strategy to show the benefits of a computerized system.
7				 	They feared being made redundant	\rightarrow	They thought the computer system was designed to replace them.	_>		Insufficient communication	In the communication strategy, emphasize how the computer system will complement their jobs and assist them, and not replace them.
00				L	They were uncomfortable about changing the way they worked		They had always been doing it this way		done manually prior	change and sense of insecurity among	Include change management in implementation plan. Also, assure staff that comprehensive training will be offered to allay fears of
9						ڄا	The positive aspects of the change were not communicated.		the benefits were obvious.	Assumptions made on our side led to insufficient communication.	Develop a communication strategy to show the benefits of a computerized system.
	There was no formal set of procedures to handle job requests, and procedures were passed on by mouth as opposed to being		There was no system in place to do so.	→	The company grew at an exponential rate that there was no time to document anything.		There was insufficient planning	->	were too busy fire	Poor work delegation and advanced planning	Develop vision, and coordinate resources to free up management to engage in strategic planning. Hire more people as necessary, and implement a computerized system.

What Can I Do With With UX?

Solve real-world problems ... & specialize if you want

Be creative and logical

Principles, knowledge, & skills are more important than tools

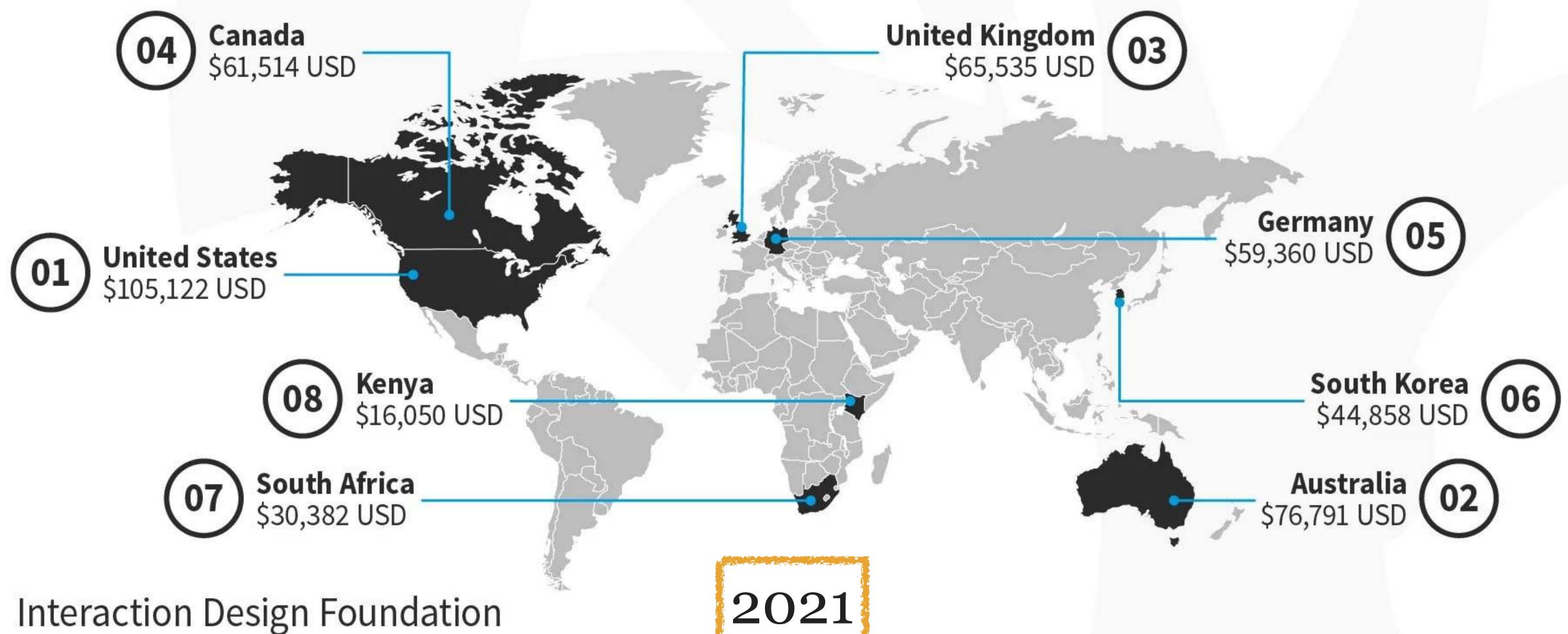
You can often work remotely

It's a growing field with high demand & good pay

UX Designer Salaries Around the World

interaction-design.org





Sources: glassdoor.com • indeed.com • salaryexplorer.com • statistica.com • bls.gov

Median annual salary in 2023 is \$93,028









I see many designers of my generation frustrated because UX boot camps and design thinking courses made us believe we'd all guide organizations towards user-centred solutions, only to realize many companies hire us to execute, not to transform.

5:26 AM · 8/29/24 · 27K Views

By the way...

Even the experts get things wrong sometimes

useit.com: Jakob Nielsen's Website

Permanent Content

Alertbox

Jakob's column on Web usability

Progress in Usability: Fast or Slow? (February 22)

Over the past decade, usability improved by 6% per year. This is a faster rate than most other fields, but much slower than technology advances might have predicted.

iPhone Apps (February 10)

Testing Expert Users (January 25)

10 Best Intranets of 2010 (January 4)

Anybody Can Do Usability (December 21)

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News

Usability Week 2010 Conference

- Atlanta, GA: February 22-26
- New York, NY: March 22-26
- Chicago, IL: April 19-24
- London, UK: May 16-21
- San Francisco, CA: June 14-19

3-Day Camp: Usability in Practice (Chicago only)

Full-day seminars, including

- IA1 (structure) & IA2 (navigation)
- Fundamental Guidelines for Web Usability
- Apps design 1 (GUI) & Apps design 2 (workflow)
- Integrating Social Features on Mainstream Websites
- Writing for the Web (2-day seminar)
- The Human Mind: How Your Users Think

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Intro to UX Design

Theory & Practice

R. Scott Granneman & Jans Carton

Changelog

2025-09-22 1.7: Removed *UCD User-Centered Design*, *HCI Human-Computer Interaction*, & *HMI Human-Machine Interface sections*; added details to *Graphic Design*, *UI User Interface Design*, & *Complexity & Difficulty*; removed slides from *UX User Experience Design*; updated theme to Granneman 1.14

2025-01-15 1.6: Added some cartoons & illustrations; updated theme to Granneman 1.13; minor fixes & corrections

2024-09-13 1.5: Added quote by Steve Jobs; added details about Industrial Designer careers; added career info for various professions

Changelog

2024-09-02 1.4: Added quote that companies want UX designers to execute, not transform

2024-02-26 1.3: Added door with a label of Pull; added *HMI Human-Machine Interface* to *What is UX?*

2024-01-13 1.2: Added Saul Bass quotation; added QR codes; added Ira Glass video at end

Changelog

2023-12-07 1.1: Switched theme to Granneman 1.12; minor fixes & formatting; broke 7 Stages of Execution up into 3 slides; added quotation by Athena Lilith Martin; added Braun calculator to illustrate UI; added slide re: how Braun calculator inspired Calculator app on original iPhone

2022-01-18 1.0: Created slide deck

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