

User experience encompasses all aspects of the end user's interaction with the company, its services, and its products.

-DON NORMAN & JAKOB NIELSEN, NN/G



Introduction

ABOUT ME

- Visual Designer-Print/Branding
- Web Design/IA/Content Strategy
- Drupal Site Building/Architecture



Why UX?

User experience encompasses everything your organization does. After all, government is public service, and without effectively meeting the needs of the public, we're missing our principal mission goal.

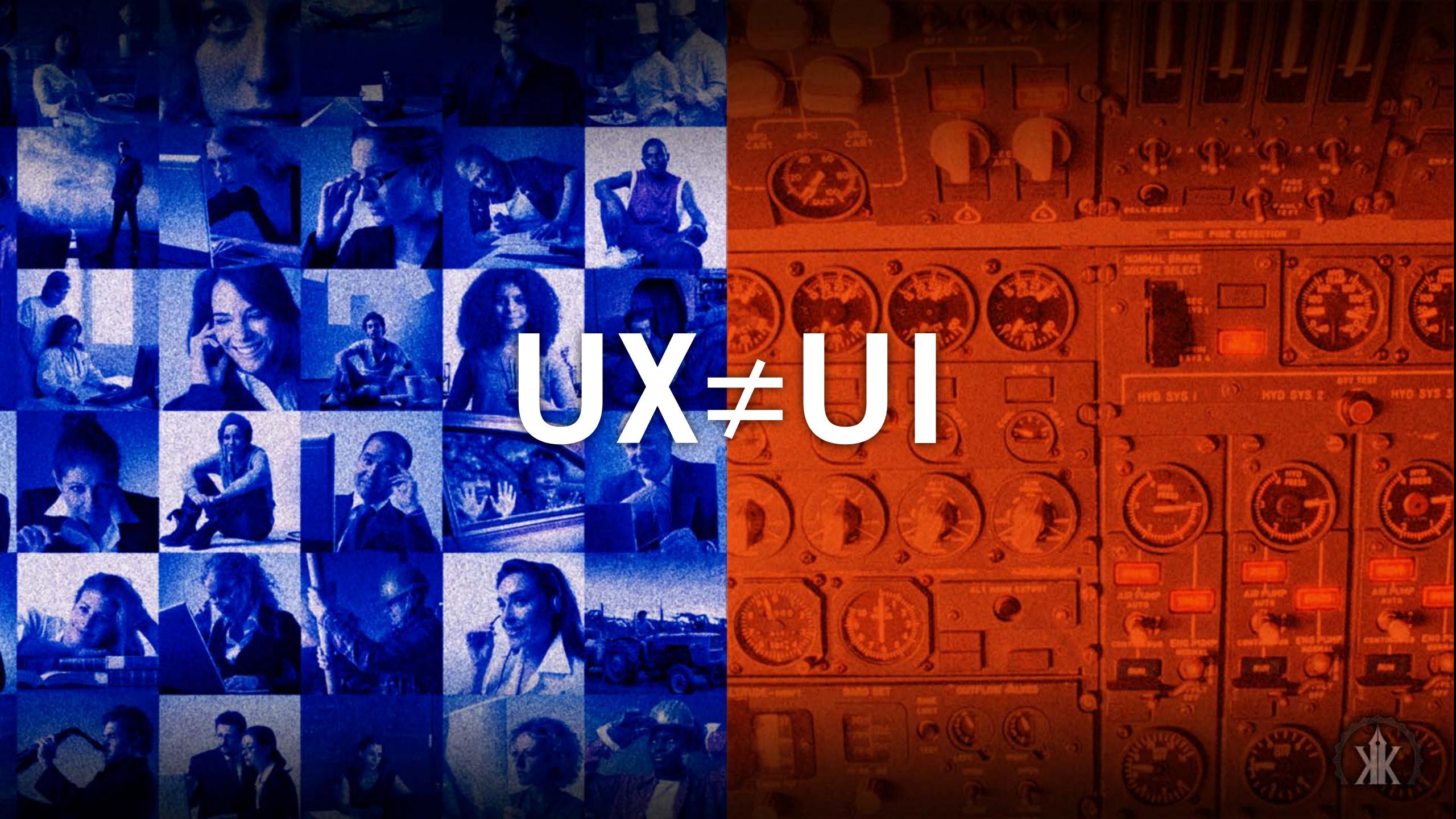


UX-Value Proposition

Correctly aligning user experience goals with your organizational goals will:

- Enhance your organization's ability to fulfill its mission
- Enable users to more quickly achieve their goals
- Empower greater community engagement





CONTENT UI UX









UX≠UI

How UX Wants to Be Seen

Field Research Face to face interviewing Creation of user tests Gathering and organizing statistics Creating personas Product design Feature writing Requirement writing **Graphic arts** Interaction design Information architecture Usability Prototyping Interface layout Interface design Visual design Taxonomy creation Terminology creation Copywriting Presentation and speaking Working tightly with programmers **Brainstorm coordination** Design culture evangelism

How UX Is Typically Seen

Field Research Face to face interviewing Creation of user tests Gathering and organizing statistics Creating personas Product design Feature writing Requirement writing Graphic arts Interaction design Information architecture Usability Prototyping Interface layout Interface design Visual design Taxonomy creation Terminology creation Copywriting Presentation and speaking Working tightly with programmers **Brainstorm** coordination Design culture evangelism



UX≠U

What does UX actually mean? The various UX roles that a person can fulfill are plentiful. Some are whole jobs, some whole careers; others are tactical roles that we all move in and out of.

What so many UX designers would like you to remember is that UX is not just UI design.

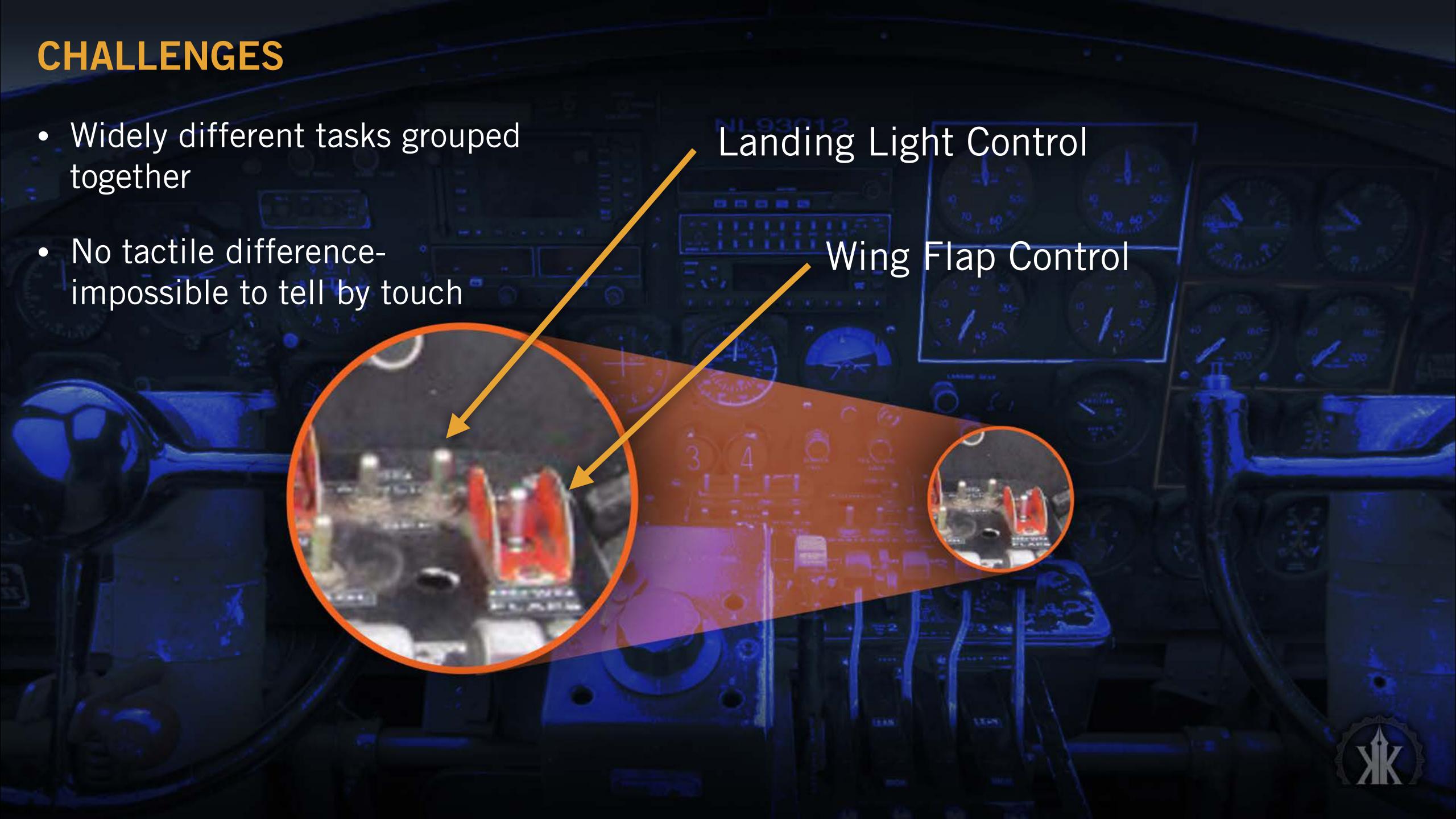
JK)



Ul Impacting UX







Ul Challenges-Takeaways

Coming in on final approach in a B-17, the pilot asked for landing lights. The flaps were over one-half down and we were about 2,500 feet short of the runway. When reaching for the landing lights the flap switch was accidentally hit, knocking the flaps up causing the [aircraft] to mush into the ground. Major damage was done to the plane.

I think this could have been prevented had the switches been further apart.

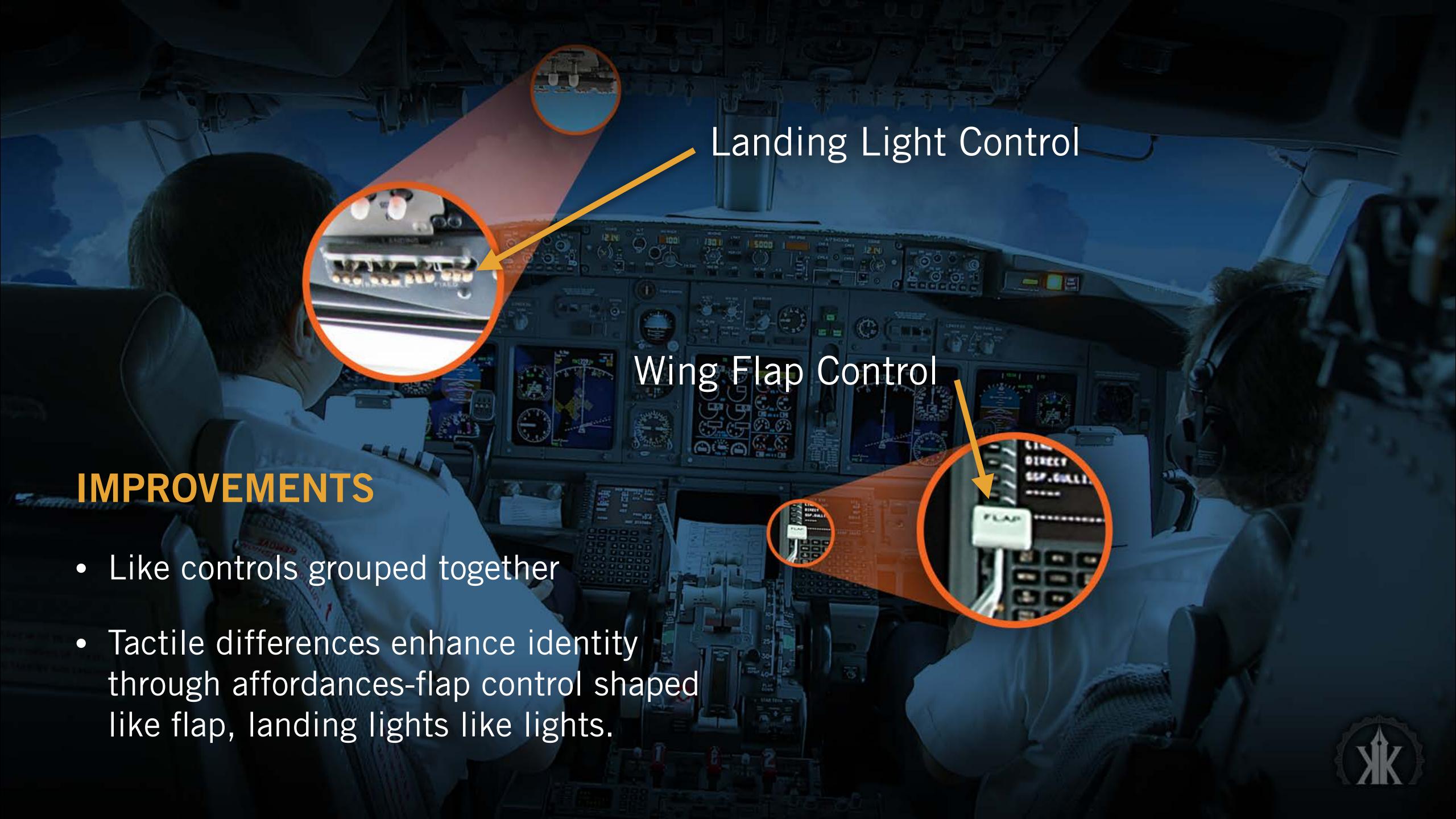


Ul Improving UX







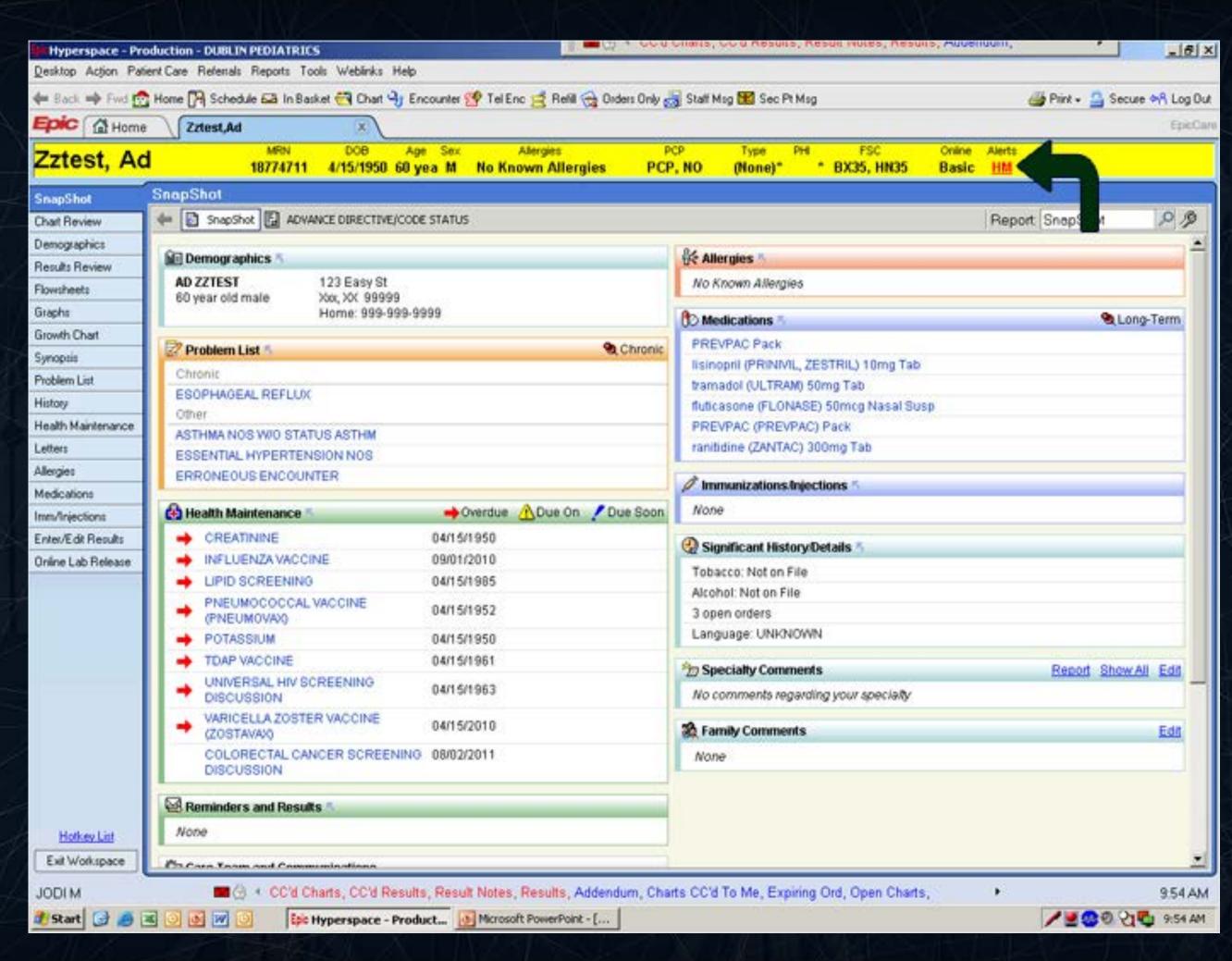


Ul Improvements-Takeaways

- Almost all pilots in the studies during World War II indicated making some type of error, regardless of their experience level
- Designers didn't pay enough attention to the human factor
- Accidents could be avoided by tailoring to the human factor providing a way to guide to better decisions
- Affordances like the examples shown help to decrease cognitive load



Challenging Web UX

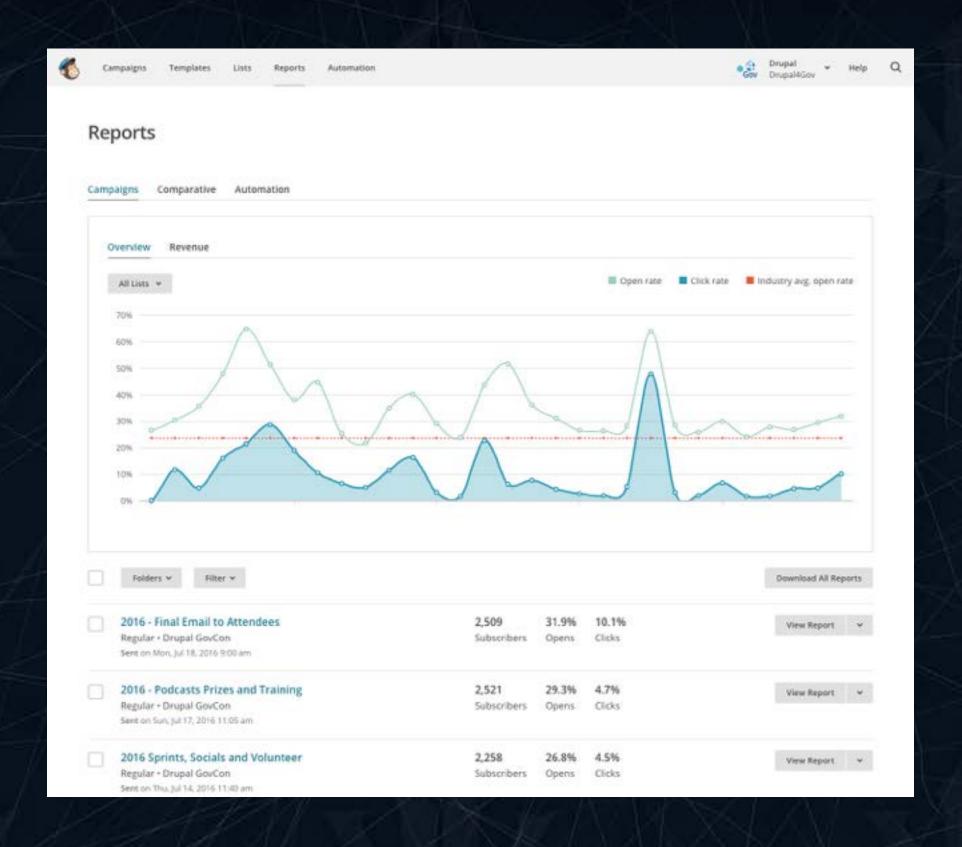


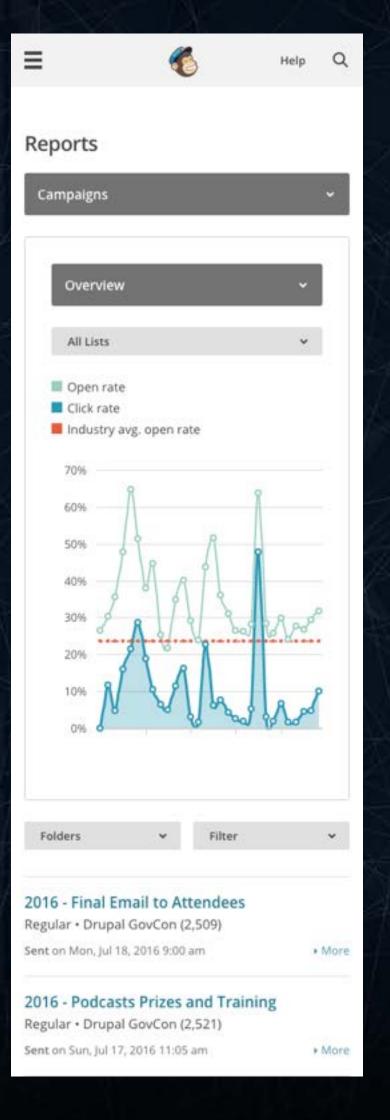
- Example of design still troublingly prevalent in medical field
- Arrow indicates critical alert, that's easily overlooked
- In this case, high staff cognitive load coupled with poor UX resulted in accidental patient death



SOURCE: Jonathan Shariat, How Bad UX Killed Jenny, <u>medium.com</u>

Excellent Web UX





- Clear, balanced layout, smart use of negative space avoids information overload
- Content hierarchy readily apparent—overview, with clear links to more for each item
- Affordances for interactivity and format limitations



What it Means for Us

- Like the aircraft examples, UX challenges don't require revolutionary technology
- Using empathy to help users achieve their goals helps us help them making us partners working toward a common goal
- As with the UI improvements in the aircraft, it often requires minimal technological or development investment
- Rapid iteration and prototyping can help enhance your existing projects, as well as those starting out





Principles of UX

Considering how broad the field UX encompasses, it's wise to break it down into segments:

- Useful
- Usable
- Desirable
- Findable
- Accessible
- Credible
- Valuable





USEFUL

As practitioners, we can't be content to paint within the lines drawn by managers. We must have the courage and creativity to ask whether our products and systems are useful, and to apply our knowledge of craft + medium to define innovative solutions that are more useful.





USABLE

Ease of use remains vital, and yet the interface-centered methods and perspectives of human-computer interaction do not address all dimensions of Web design. In short, usability is necessary but not sufficient.





DESIRABLE

Our quest for efficiency must be tempered by an appreciation for the power and value of image, identity, brand, and other elements of emotional design.





FINDABLE

We must strive to design navigable web sites and locatable objects, so users can find what they need.





ACCESSIBLE

Just as our buildings have elevators and ramps, our web sites should be accessible to people with disabilities (more than 10% of the population). Today, it's good business and the ethical thing to do. Eventually, it will become the law.





CREDIBLE

Thanks to the Web Credibility Project, we're beginning to understand the design elements that influence whether users trust and believe what we tell them.





VALUABLE

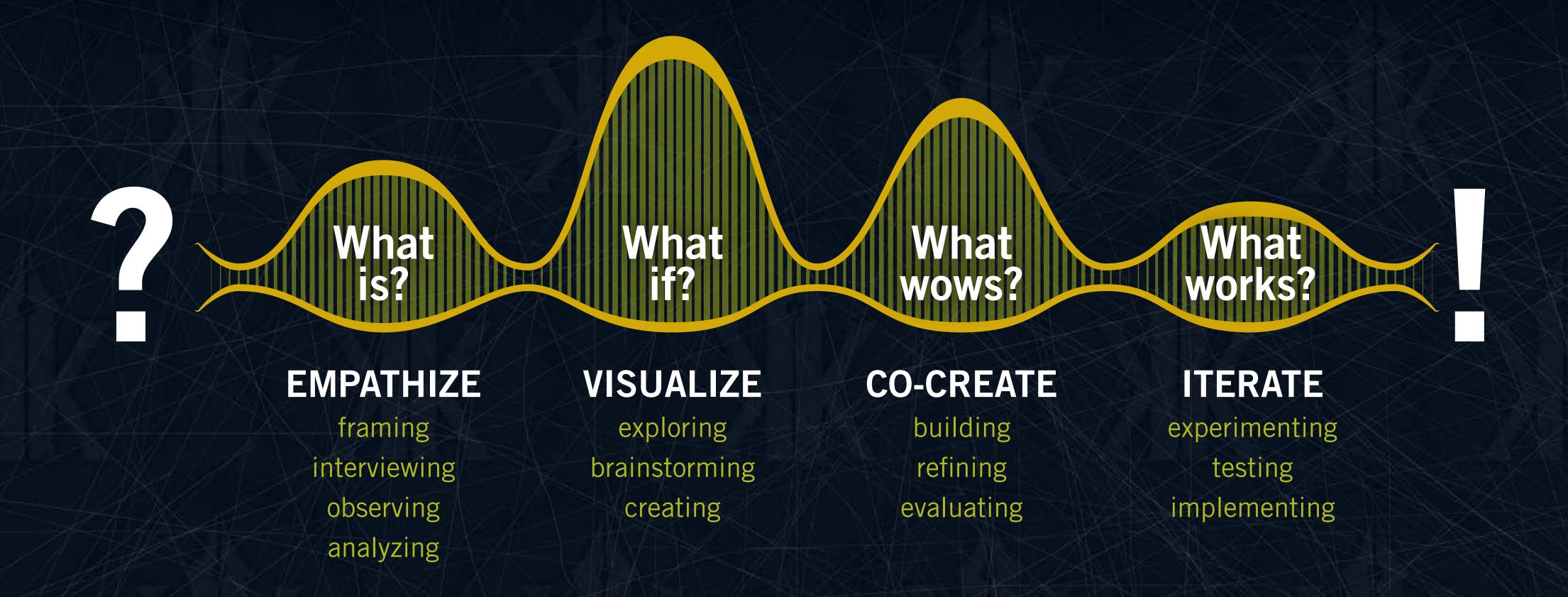
Our sites must deliver value to our sponsors. For non-profits, the user experience must advance the mission. With for-profits, it must contribute to the bottom line and improve customer satisfaction.





Process

Process



Design Thinking: A framework from which to launch your UX initiatives.

SOURCE: IDEO, Stanford d.school



PROCESS OVERVIEW

- WHAT IS? Empathize: framing, interviewing, observing, analyzing
- WHAT IF? Visualize: exploring, brainstorming, creating
- WHAT WOWS? Co-create: building, refining, evaluating
- WHAT WORKS? Iterate: experimenting, testing, implementing



EMPATHIZE

WHAT IS—This begins by framing the challenge—uncovering a key problem to remedy. Finding out what is a given problem. By careful interviewing, base assumptions can be revised/validated. Of principal importance here is effective interviewing—becoming childlike in repeatedly asking why, and not leading on interviewees. It requires a mindset where the design thinkers know nothing, and the interviewees (users) everything, not allowing prejudices to creep in and hamper the discovery of the key question to solve.



VISUALIZE

WHAT IF—Especially on short time frames, it's easy to reach for an obvious solution, which can become repetitive. Design thinking works to avoid this by requiring many solutions to a given problem be generated, and evaluated while withholding judgment. This allows for more possibilities, by breaking down preconceptions we may not be aware of. Framing possibilities in the context of what if [this idea solved]...



CO-CREATE

WHAT WOWS—Narrowing down the generated visualizations, and building quick prototypes helps validate solutions. A rapid process is key here—making quick prototypes to test, not high-fidelity mocks. This allows for experimentation and refinement with little emotional and resource expenditure. By leveraging team members, more ideas can be generated more quickly than even a skilled practitioner working alone. By finding what wows (delights/satisfies) a user in this fashion, successful iterations can then proceed.



ITERATE

WHAT WORKS—combining the refined research and prototypes into a workable solution that can be quickly tested. Again, although the solution is more refined, it's still important to allow modification/revision—as will be informed by thorough testing and real-world experience. If successful, there will be a shippable product/service. If not, perhaps cycling back to more user research and testing will be needed to solve the challenge.



Design Thinking Takeaways

- Method to solve "wicked problems" that may seem intractable
- Allow for UX design work on a budget—extrapolate from a small sample in a short time frame
- Focuses on qualitative vs. quantitive. More holistic than pure statistics
- Basic requirements lower barriers to entry, allowing greater participation
- Imposing rapid timeframes generate ideas quickly, force out-of-box methods
- Best not approached as dogma, but to adapt to your specific use case
- Only the start—not a substitute for the formal UX design work



Design Thinking-Example

PARCHED PUPPY WATER CONSERVATION CONCEPT

- Created during the Global Service Jam 2016 held in Washington, DC, a project that would need to go from concept to working prototype in a 48-hour timeframe.
- Demonstration of DT process used to find novel solutions to water conservation challenges.





Design Thinking-Example

YOU MET

DOG GETS A BONE/

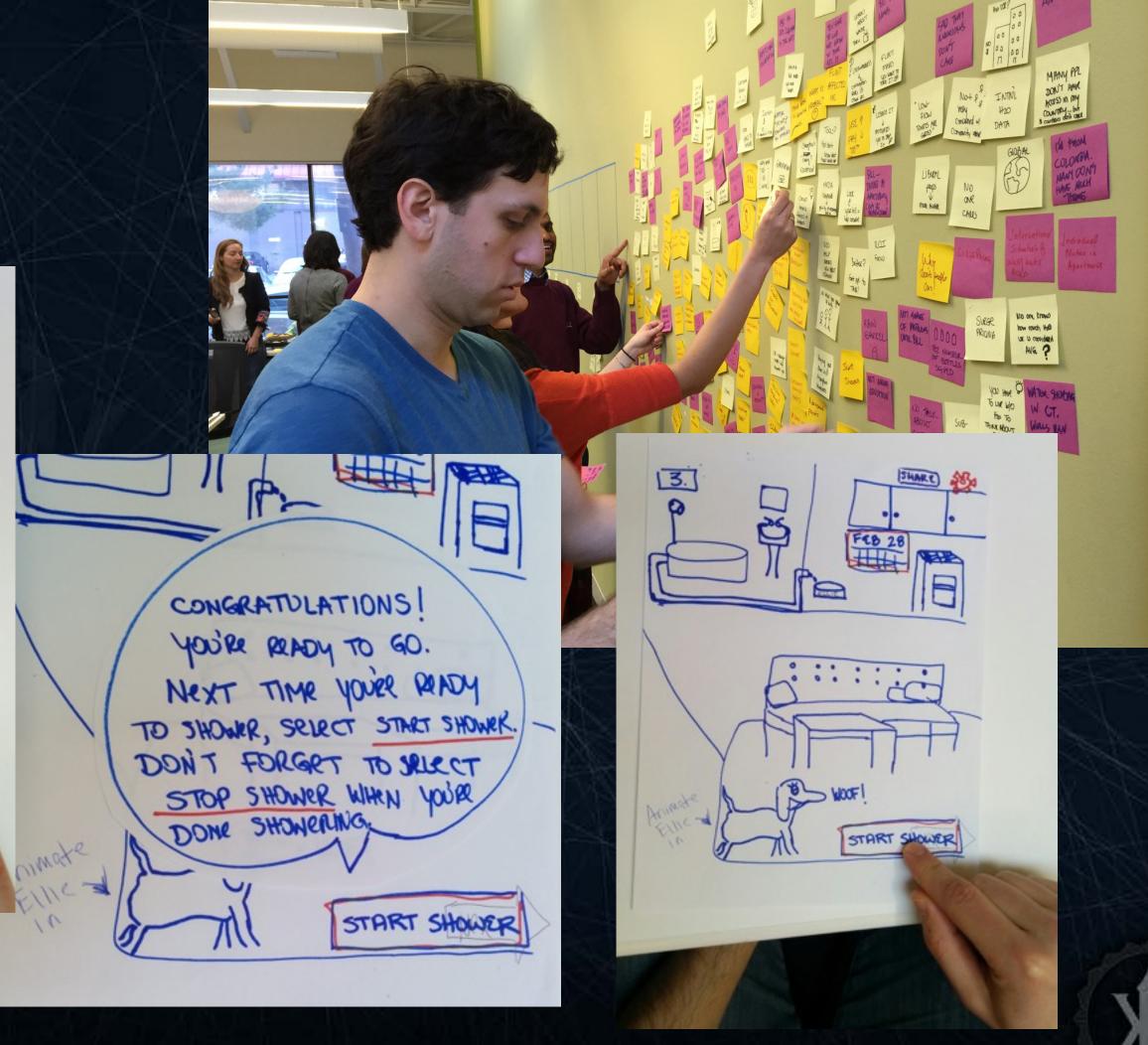
AFFECTIO

YOUR GOAL!

Rapid pace necessitates non-linear process, short research, fast, throwaway deliverables to get to working final prototype.

to water use

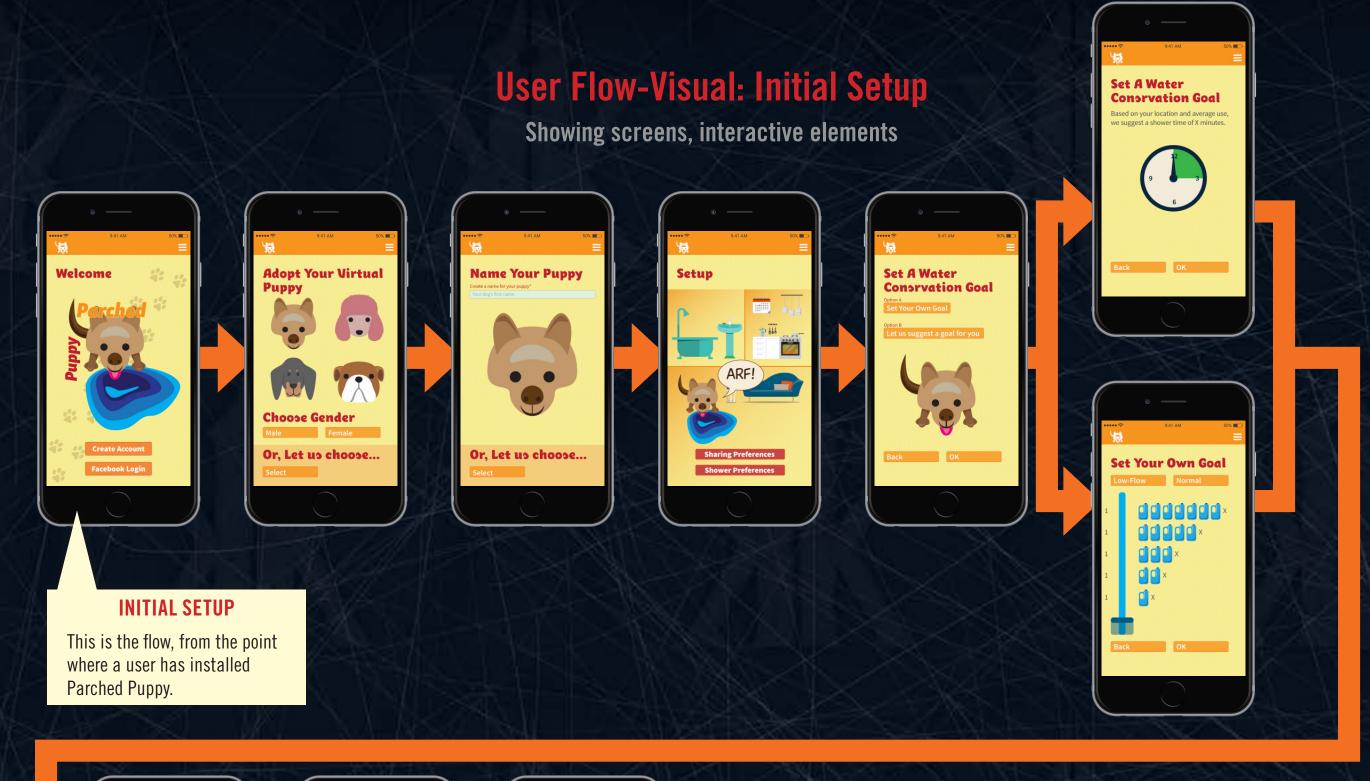
HMW incentivize water conservation



Design Thinking-Example

The iterative framework can be expanded to a more finished prototype for validation quickly.

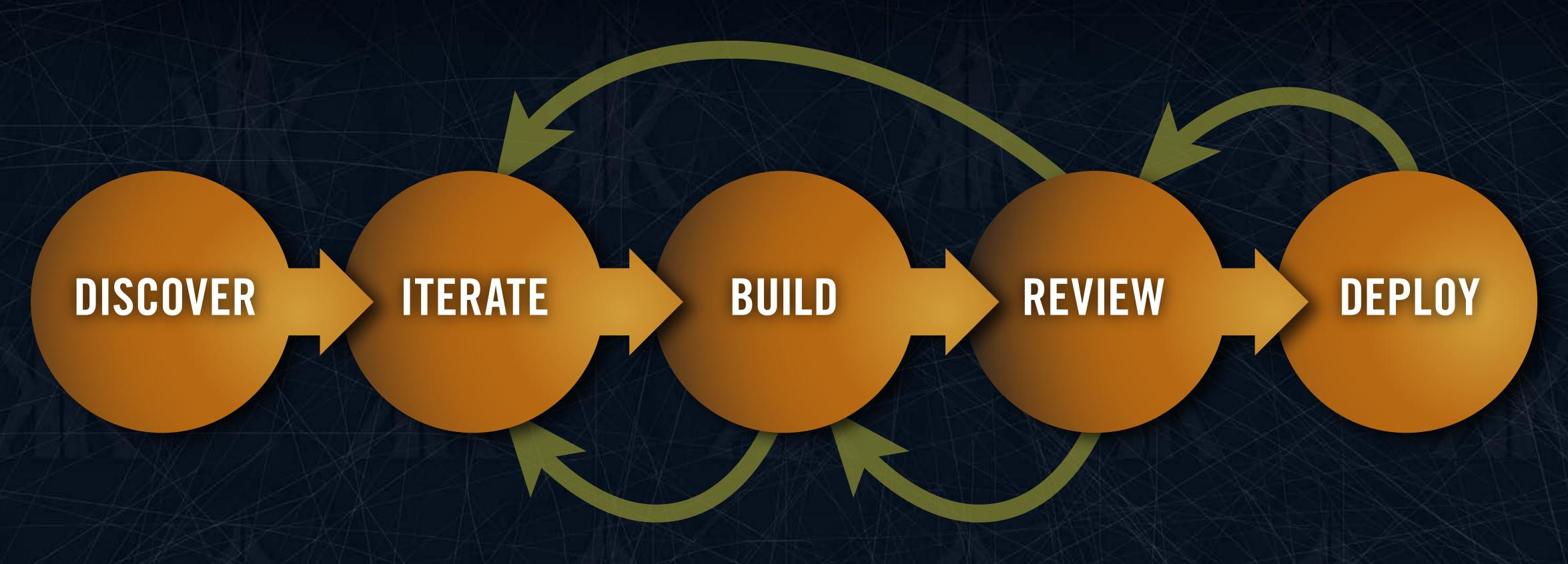
Focusing on the user from the outset helps anticipate many potential challenges.







My Process



Empathy for **all** project members is key—as well as leaving the fear to be wrong behind. Rapid iteration and close collaboration.



Discover

- User and stakeholder interviews—find the actual goal, not a vague desired result
- Requirements gathering
- Securing buy-in from key stakeholders
- Personas—don't have to be elaborate, but offer an effective method to gauge the effectiveness of your product in real-world situations





Discover-Tool Set

- Whiteboard
- Post-Its
- Paper
- Interviewing aids-recorders

Website Design/Redesign Questionnaire

Your input and collaboration is key to a successful project. This questionnaire will help you organize and identify the overall goals of your Web presence design/redesign. Although lengthy, it is of great help in sketching out important project details and setting a blueprint for success. Answering the following questions gives us important direction in understanding the scope of work for this project,

1. GENERAL INFORMATION

- t. What is the name of your company and your current (or
- 3. What is your intended launch date for the new site? Are there any outside considerations that might affect the schedule (for example, PR launch, tradeshow, annual report)?
- 2. Who are the primary contacts from your organization, and who has final approval on the project? Please list names, titles, email addresses, and phone numbers.
- 4. Do you have a specific budget range already established for this project? Can this project be divided into phases to accommodate budget and timing constraints?

2. CURRENT SITE (IF APPLICABLE)

- t. Do you feel your current site promotes a favorable user experience? Why or why not?
- 4. Have you conducted usability tests or gathered visitor feedback for your current site? If so, how long ago? Plome include any reports or findings.
- 2. What specific areas of your current site do you feel are successful? Why are they successful?
- 5. How important is it to maintain your current look and feel, logo, and branding?
- 3. What shortcomings exist with the current site, and what three things would you change on the site today if you



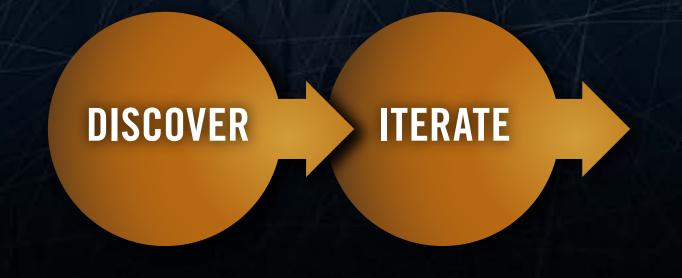
www.karlkaufmann.com | 202-558-5327

DISCOVER



Iterate

- Incorporate research and requirements into prototype
- Use (low fidelity) tools that allow you to rapidly test ideas
- Sprints are excellent methods to generate ideas
- When possible, involve stakeholders here as well.





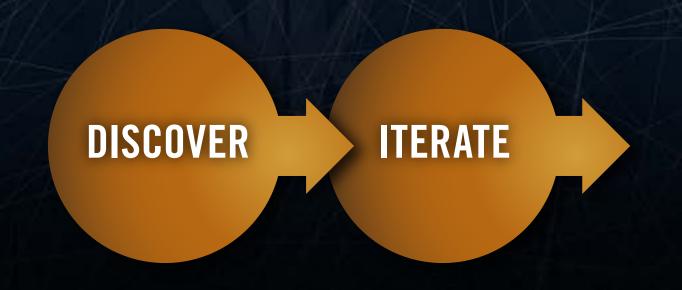
Iterate-Tool Set

SUGGESTED TOOLS

- Paper Templates
- Whiteboard
- Post-Its
- Low-fidelity digital comping tools



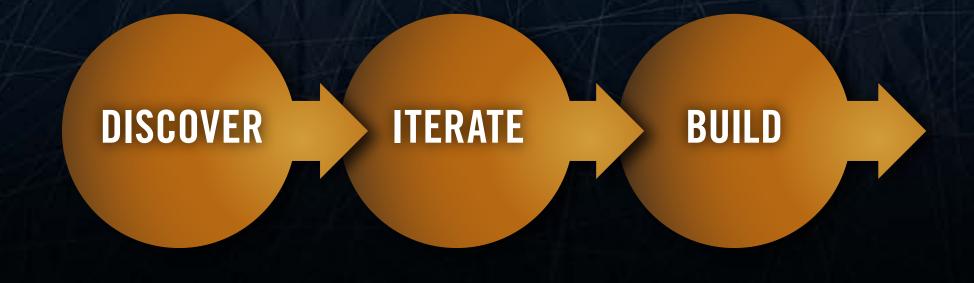
N.B. Focus on this stage is rapid generation. Avoid being sucked into drawn-out processes. If need be, devise sprints or short time limits.





Build

- Incorporate your best prototype(s) into your product
- Test repeatedly, and as often as feasible
- Guerilla UX—random testing can uncover valuable insights
- Modularity—use systems that allow for easy modifications
- If major issues are discovered—iterate again!



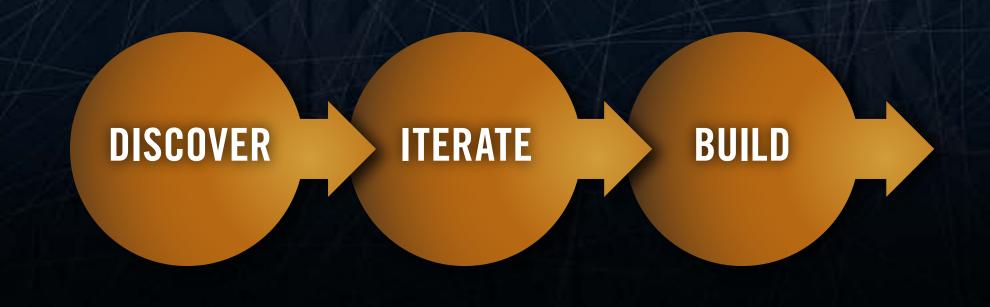


Build-Tool Set

SUGGESTED TOOLS

- Code/Image editors of choice
- Spirit of collaboration—do what you can to break down barriers between team members (and clients)
- Array of devices the product will be used on

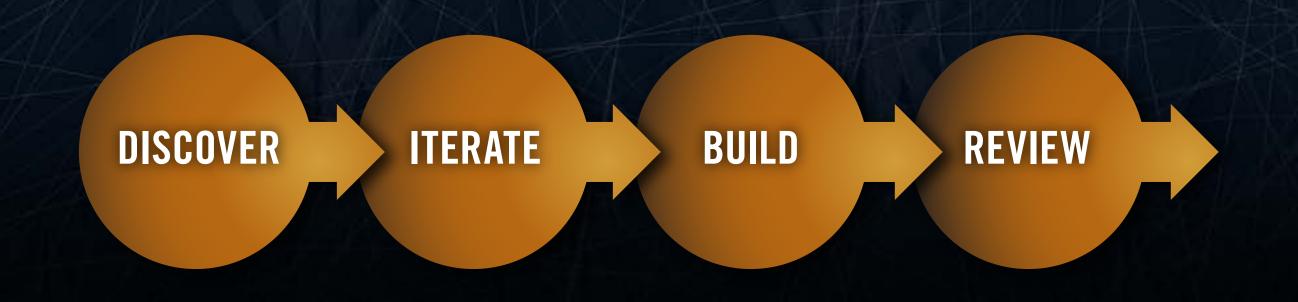
N.B. Allow your builds to be revised, if at all possible. Developing tunnel vision on a given path can have disastrous consequences.





Review

- Functional testing—will the product perform as advertised?
- User testing—getting the project into the hands of actual users is one
 of the fastest ways to gauge overall effectiveness
- Security—thorough reviews in real-world cases is essential.
- If major issues are discovered—rebuild and/or iterate!

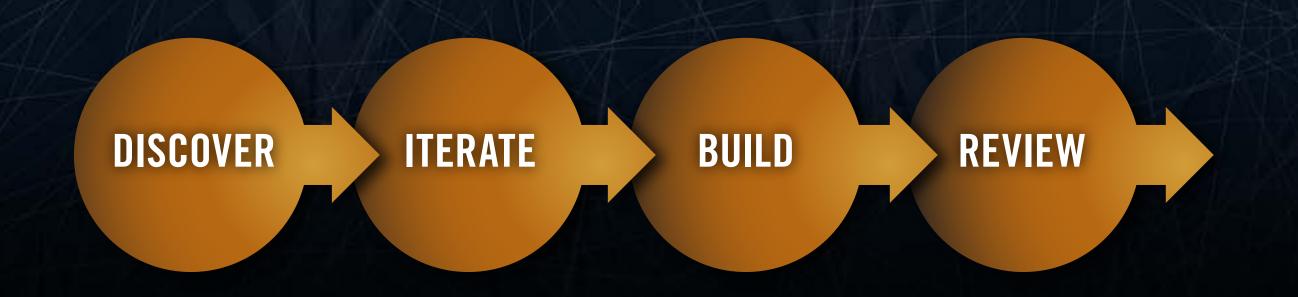




Review-Tool Set

SUGGESTED TOOLS

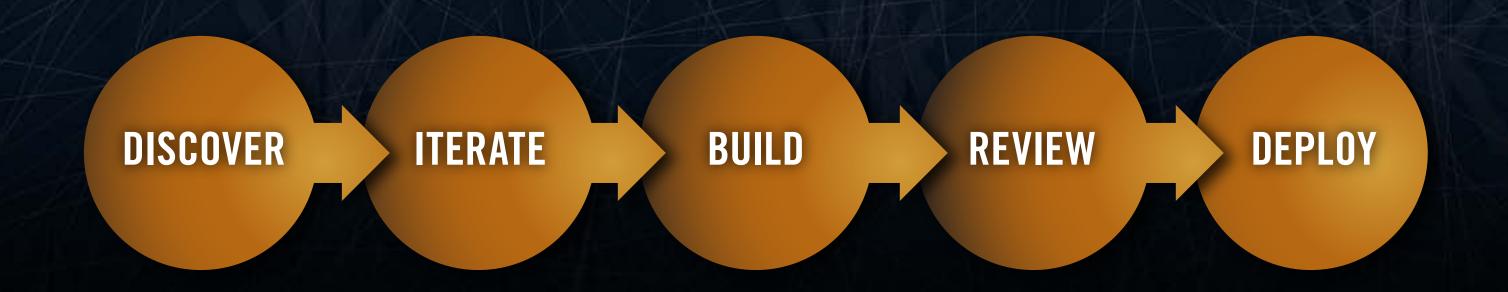
- Array of devices and browsers to reflect user base
- Account for low bandwidth and other technical challenges
- User testing—make sure the product performs as required, and make necessary adjustments, if needed.





Deploy

- Once major requirements are successfully fulfilled, launch
- Continual attention to users is essential, whether by the client, or by you. In a constantly changing user landscape, what may have been clear during discovery may now be cloudy.
- If major issues are discovered—review the project, and adapt as needed!



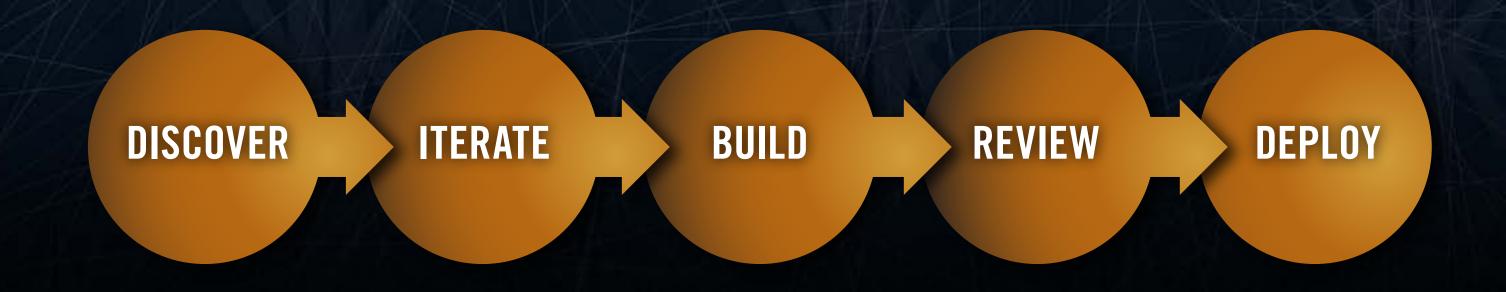


Deploy-Tool Set

SUGGESTED TOOLS

- Software/hardware of choice
- Analytics observations
- Stakeholder feedback

N.B. The UX process doesn't stop here—the path is for continual improvement over the life of the product.





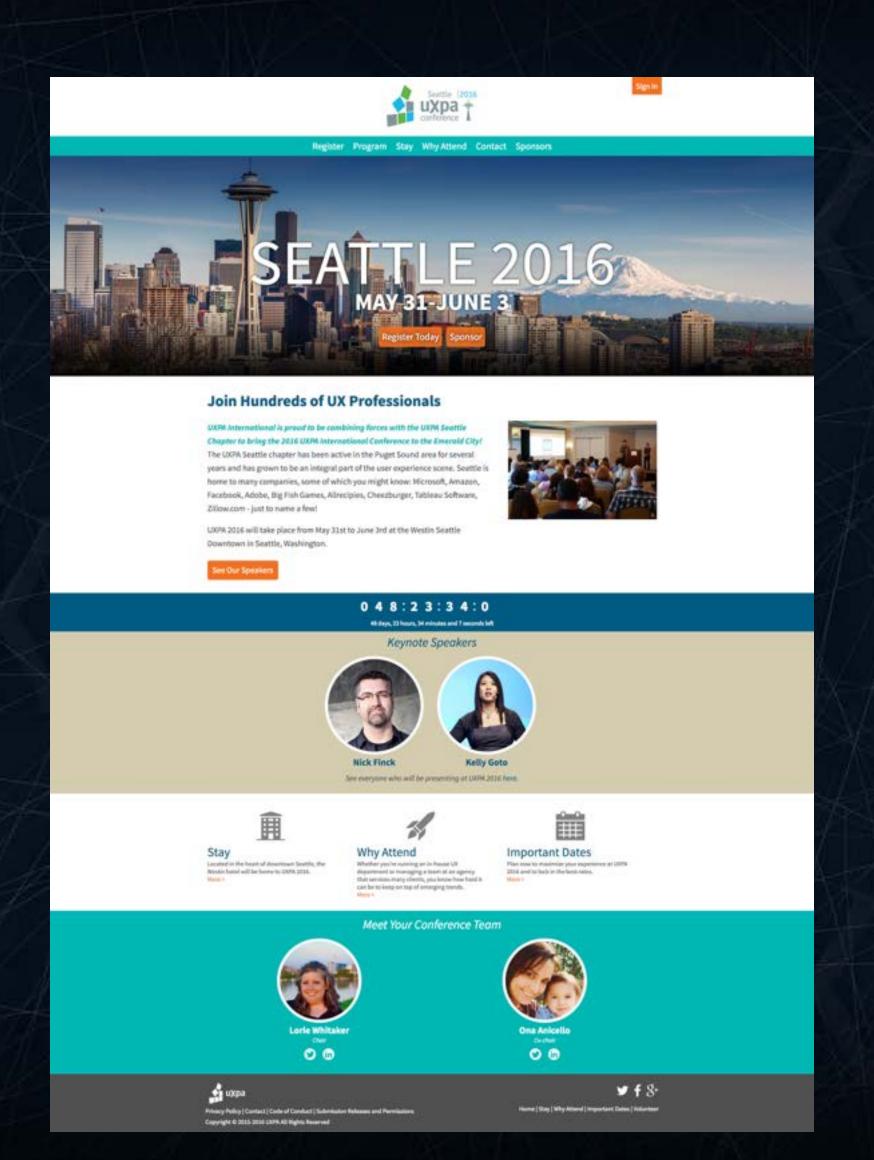


UXPA International 2016

- Conference site, built from ground-up in Drupal
- Required custom coding to interact with main site
- Demanding UX-centric user base
- Due to prior experience, no printed program would be used
- Careful balance of performance and features



UXPA International 2016





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Join Hundreds of UX Professionals

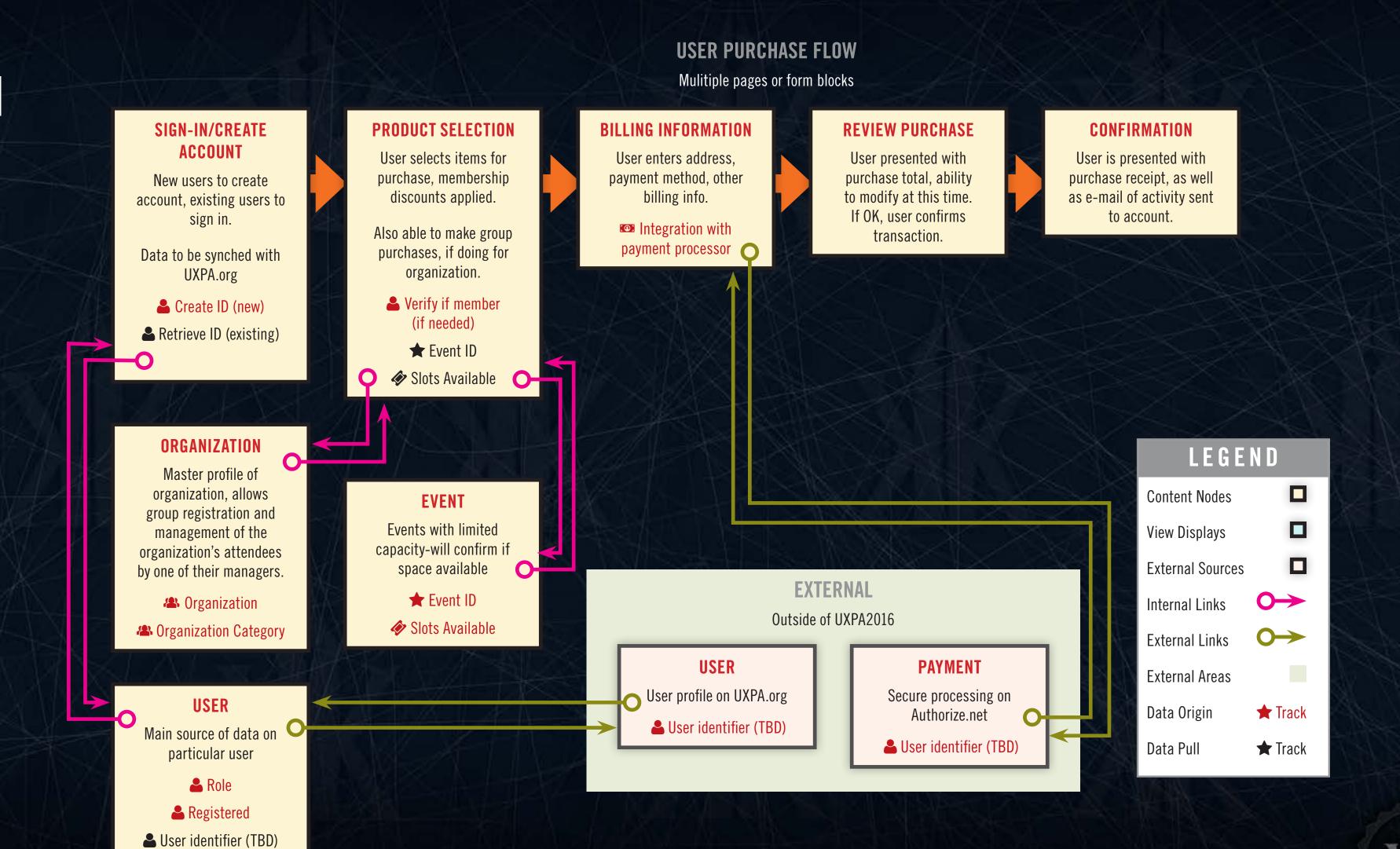


Chapter to bring the 2016 UXPA
International Conference to the Emerald
City! The UXPA Seattle chapter has been active in the Puget Sound area for several years and has grown to be an integral part of the user experience scene. Seattle



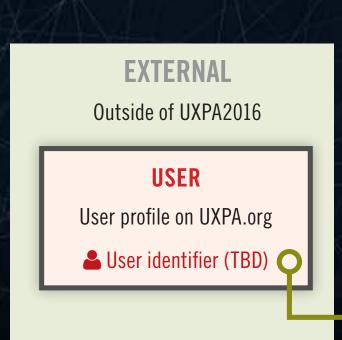
User Flow

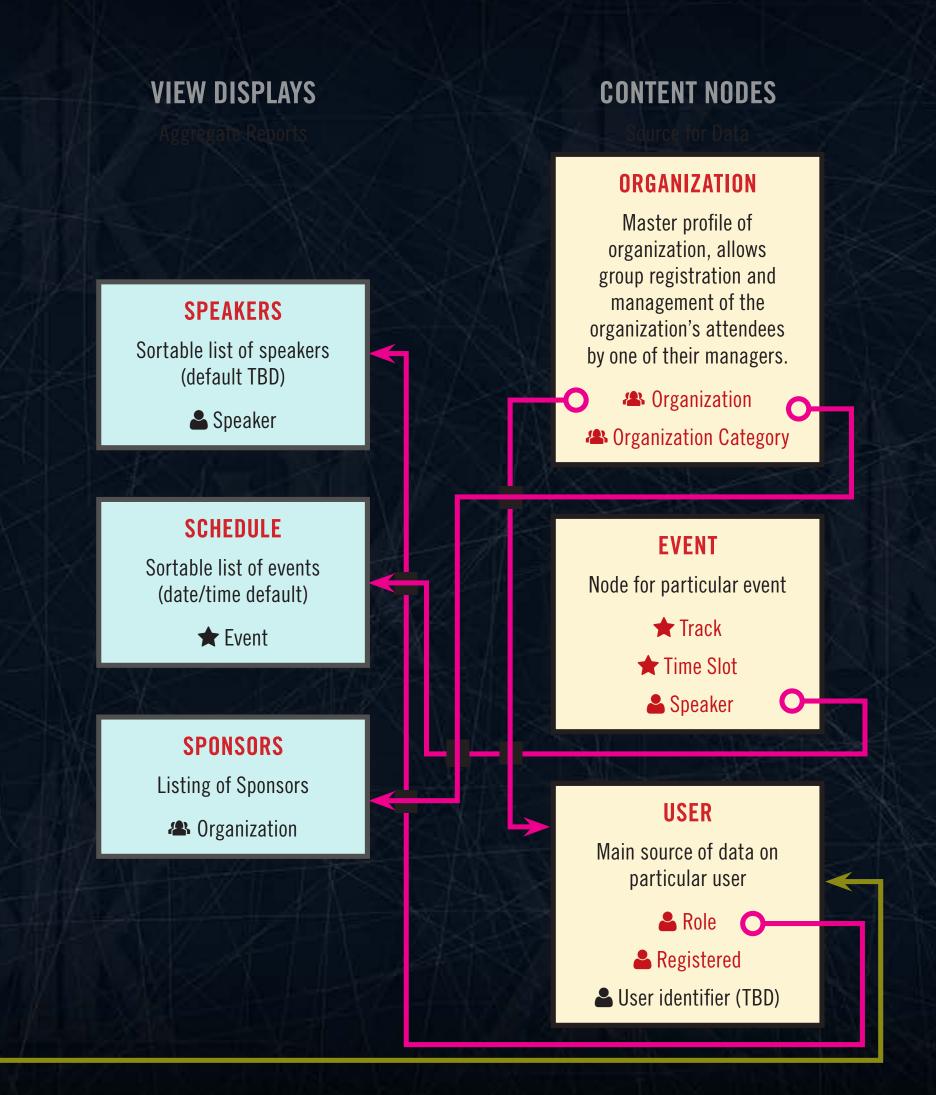
Creating visual flows helps stakeholders see the steps involved, and anticipate and resolve issues before launch.

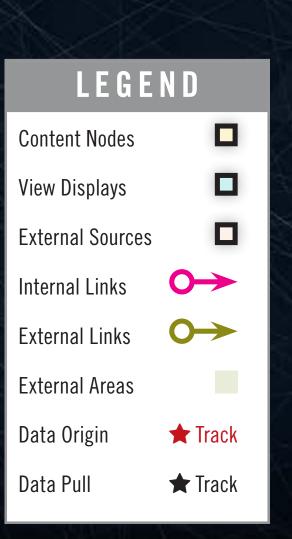


Data Flow

Visualizing data flows on complex sites also helps immensely with coding and site building.



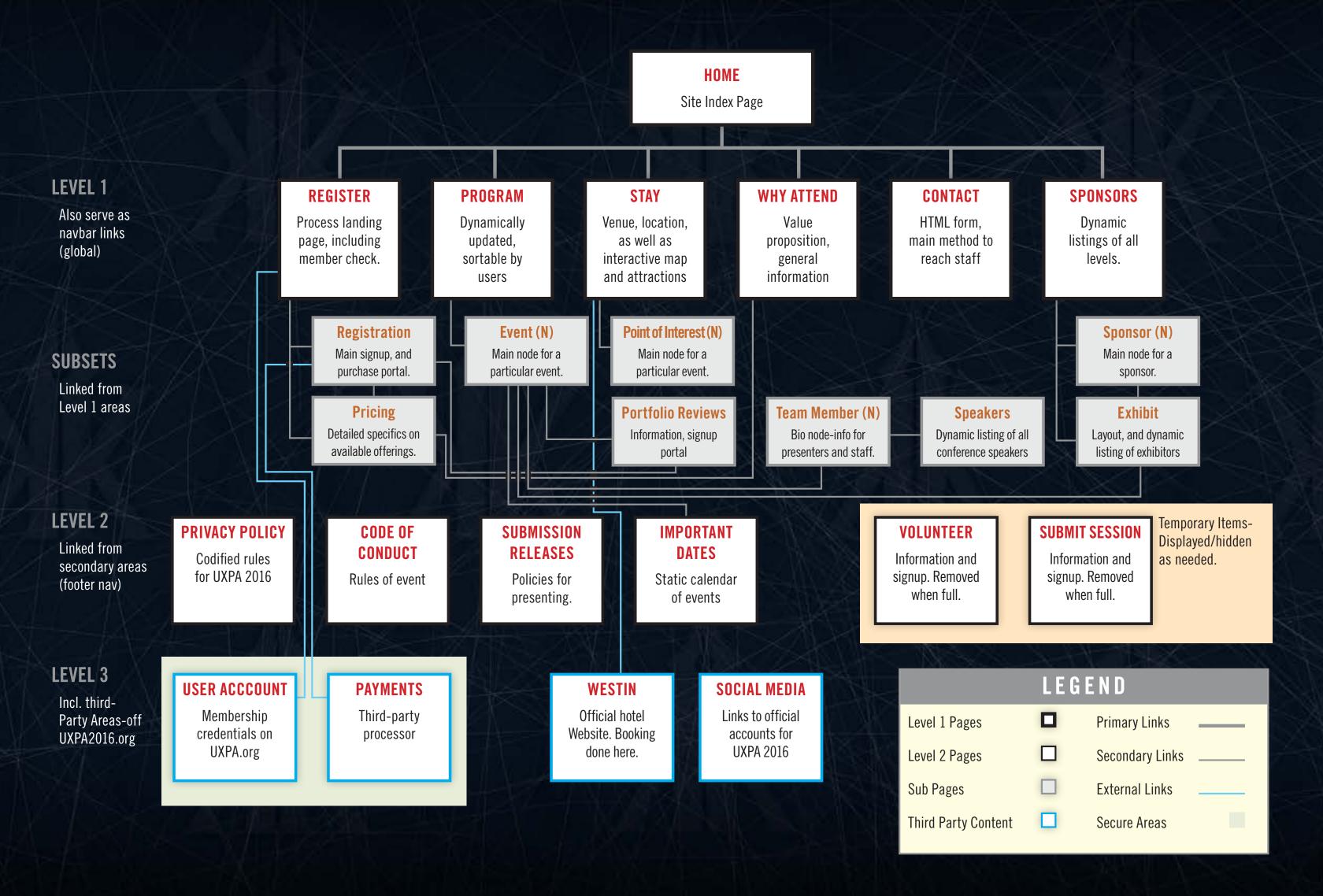






Site Architecture

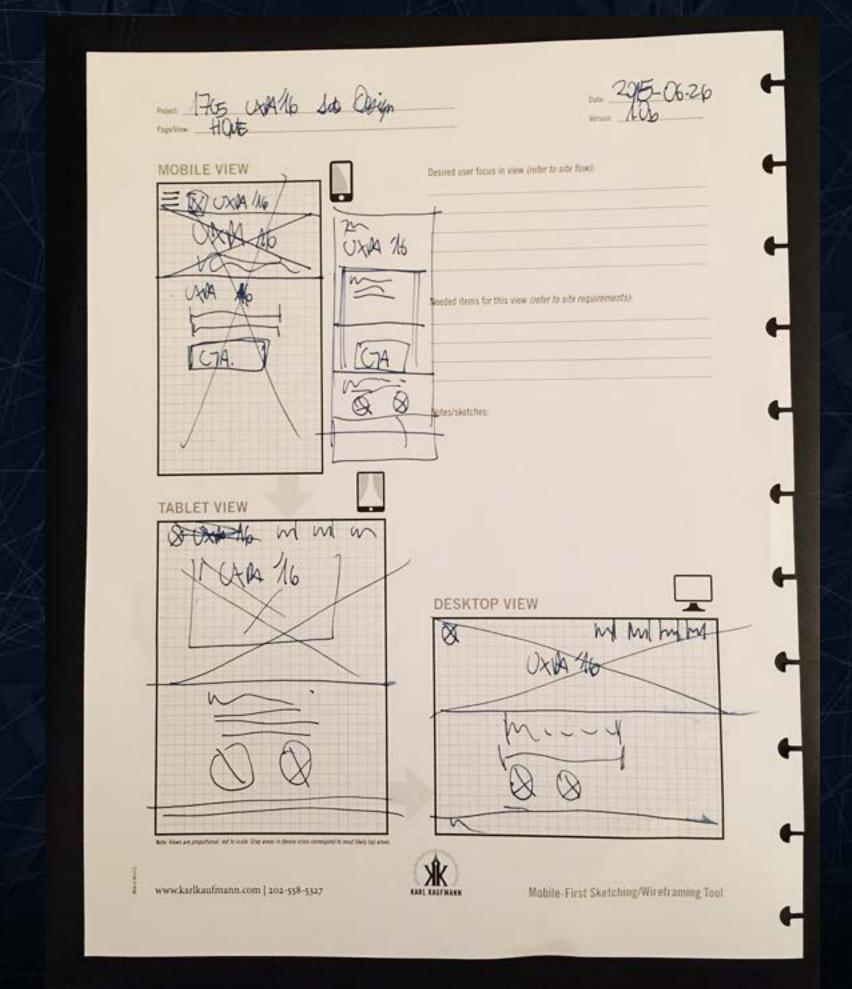
Necessary, but often neglected. Excellent way to improve UX and find possible issues, of all sorts.

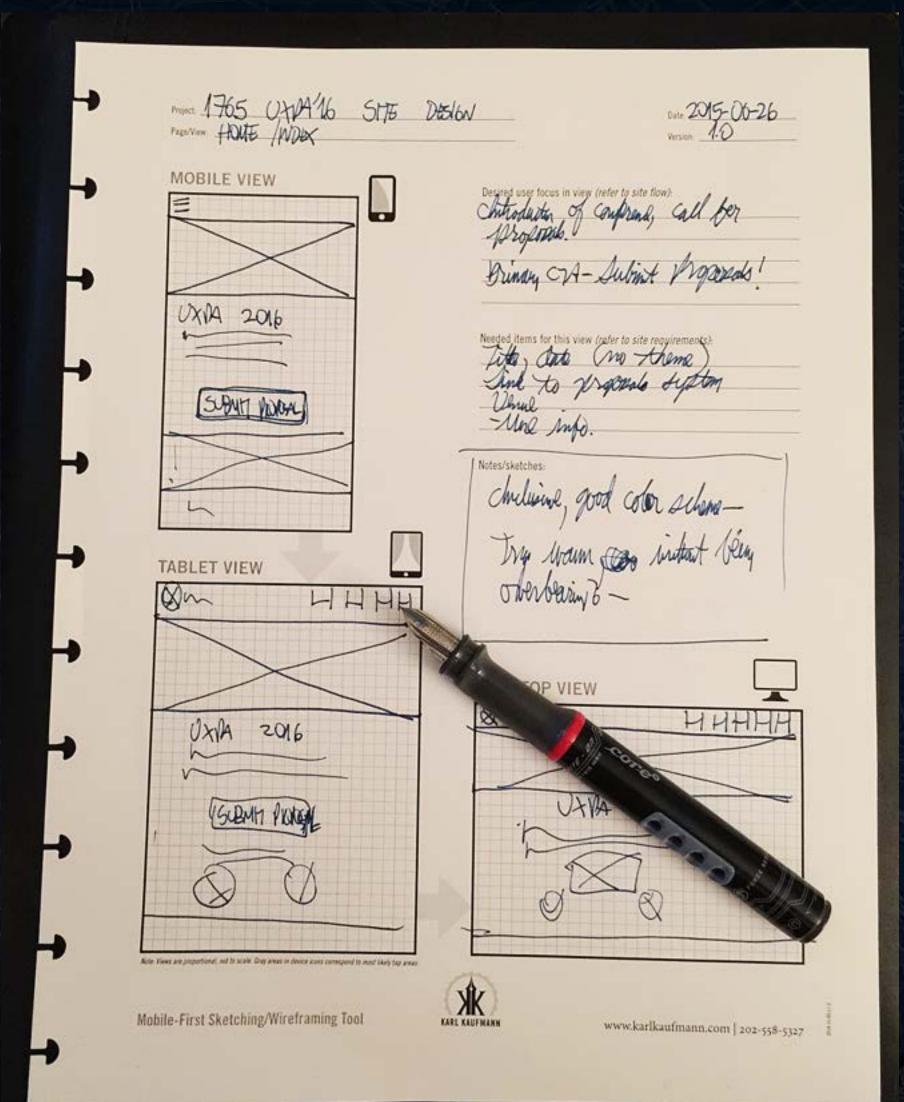




UXPA 2016-Comping

Rapid paper iteration to start.

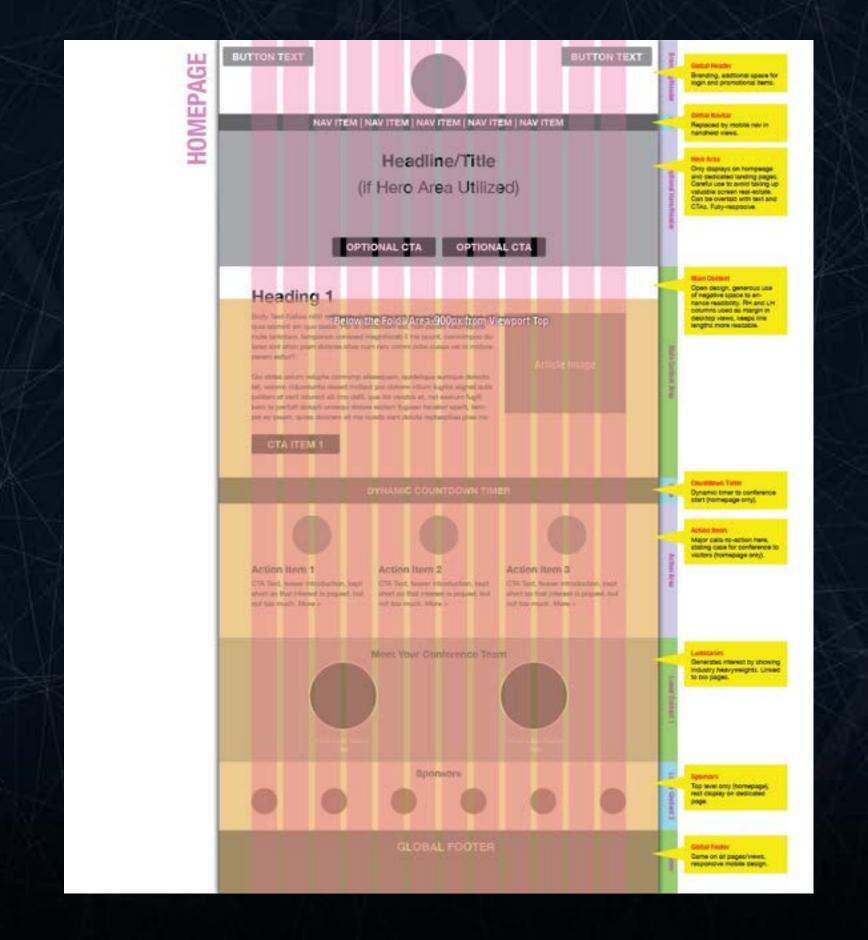






Wireframes

Keeping assets low fidelity until content and functionality has been set allows for modification without fear of "sunk cost"



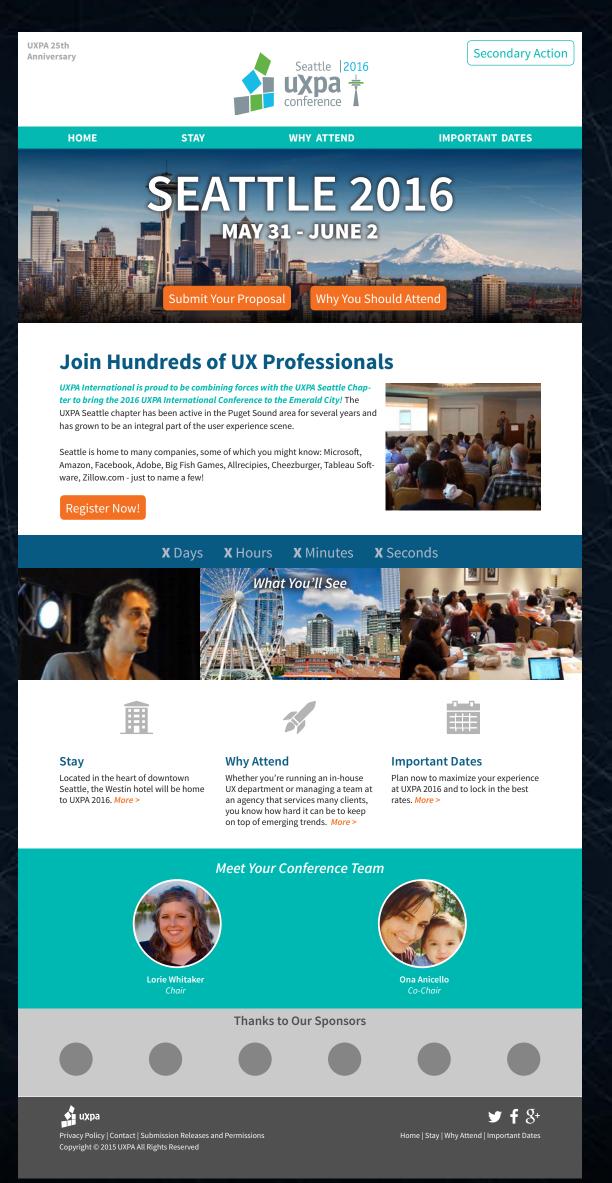




Style Tiles & Static Mocks

Design, theme, and visual elements can be explored and revised well before any coding.

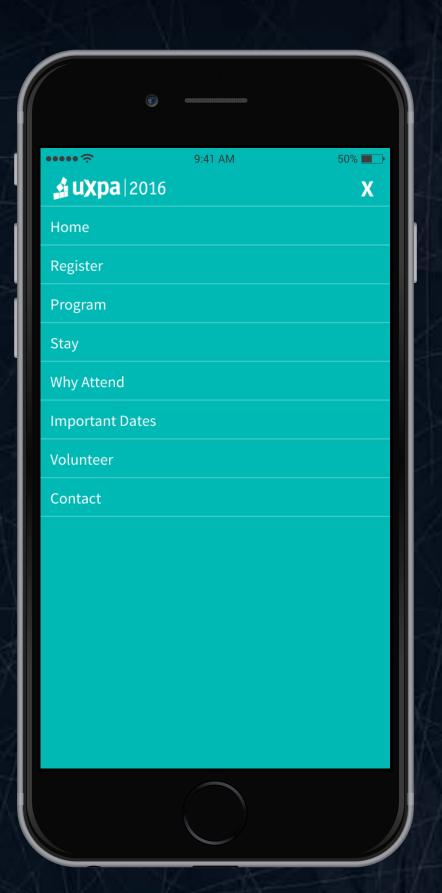


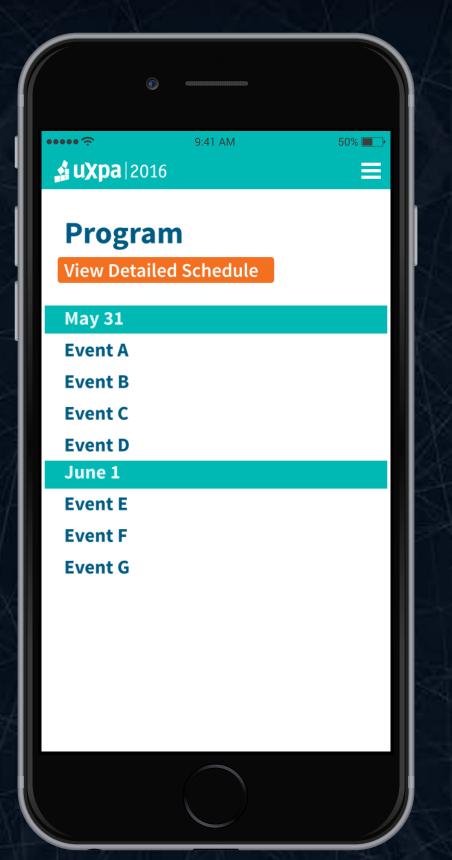


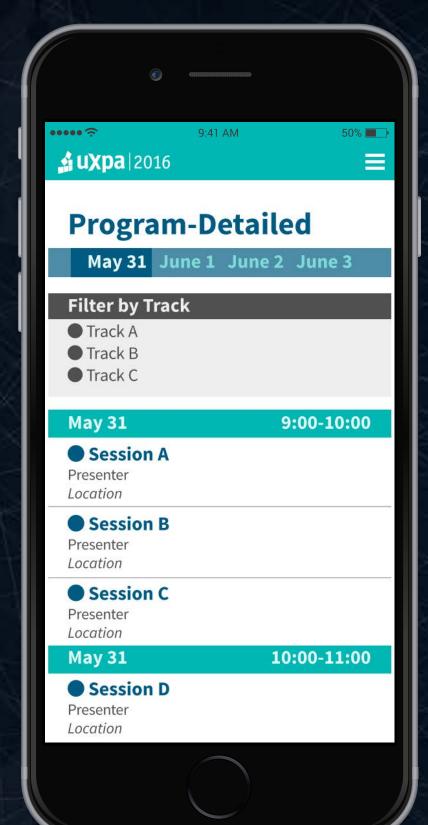


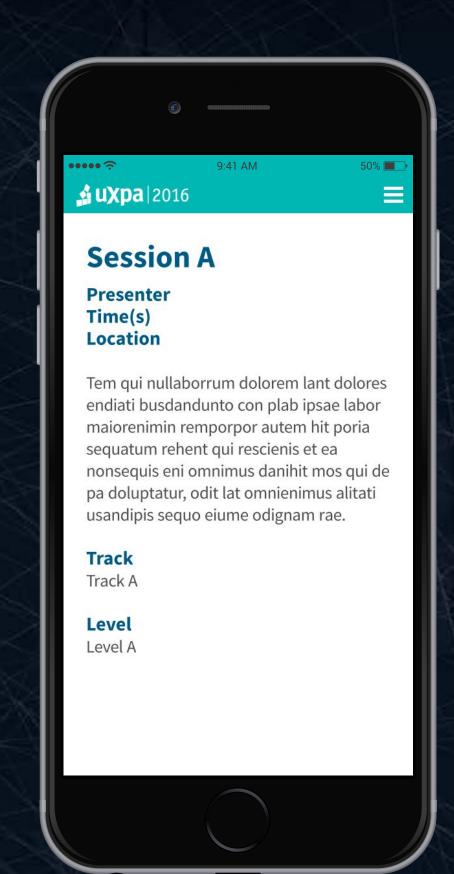
Interactive Mocks











Tools such as InVision allow functional prototypes without coding, allowing faster iteration for UX-critical testing.



User-Centered Table Design



Conference Pricing

UXPA 2016 is offering two ways to maximize your attendance dollars—<u>package</u> and <u>ā-la-carte</u>. *Due to overwhelming demand, Early Bird tickets are now sold out!* The pricing is dictated by the amount of tickets sold. So, unlike previous years, there are no dates associated with early bird, regular and late pricing. Instead, when the allocated amount of early bird tickets are sold, we will move to regular prices.

Package Pricing

To offer you greater flexibility in what to do at UXPA 2016, we are offering four packages: Mt. Rainier, Cascades, Olympics, and Mt. Baker, each with bonus options. If you'd prefer assembling your own package, please see our <u>à-la-carte</u> options below. Some pricing is only available to UXPA members. Become a member here.

	Mt. Rainier	Cascades	Olympics	Mt. Baker
	Basic Plan	Save \$250 ^[1]	Save \$200 ^[3]	Save 5175
Conference Sessions			0	
Full Day Course + Evening OR 2 Half Day + 1 Evening				
Full Day Course OR 2 Half Day Courses			9	
Half Day Course				9
Breakfasz & Lunch - 5/32		9	9	
Early Bird Price - Member[4]	6000	51,621	\$3,350	\$8,050
Early Bird Price - Regular	5900	\$3,725	\$3,450	\$1,010
Early Bird Price - Student	53511	5610	5700	5528
Regular Price - Member	\$950	\$2,175	\$1,750	\$1,350
Regular Price				



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	Mt. Rainler	Cascades	Olympics	Mt. Daker
	Basic Plan	5 ave 5250-1	Save \$200 ⁷²	Save: \$175-2
Conference Sessions	0	0	9	0
Full Day Course + Evening OR 2 Holf Day + 1 Evening		9		
Full Day Course OR 3 Holf Day Courses				
Helf Day Course				
Brookforr & Liverb - \$191		0		
Early Bird Price	5000	61,425	\$1,310	\$1,000
Karly Bird Price Regular	6000	25,725	31,000	10,000
Early Bird Price Student	6964	5619	\$700	5125
Regular Price - Member	\$850	\$2,175	\$1,750	\$1,350
Regular Price	\$1,050	\$2,275	\$1,850	\$1,450
Studene ^{NEE} Regular Price	\$400	\$1,025	\$800	\$625
Late Price- Member	\$1,150	\$2,775	\$2,150	\$1,750
Late Price	\$1,250	\$2,875	\$2,250	\$1,850

Package Pricing

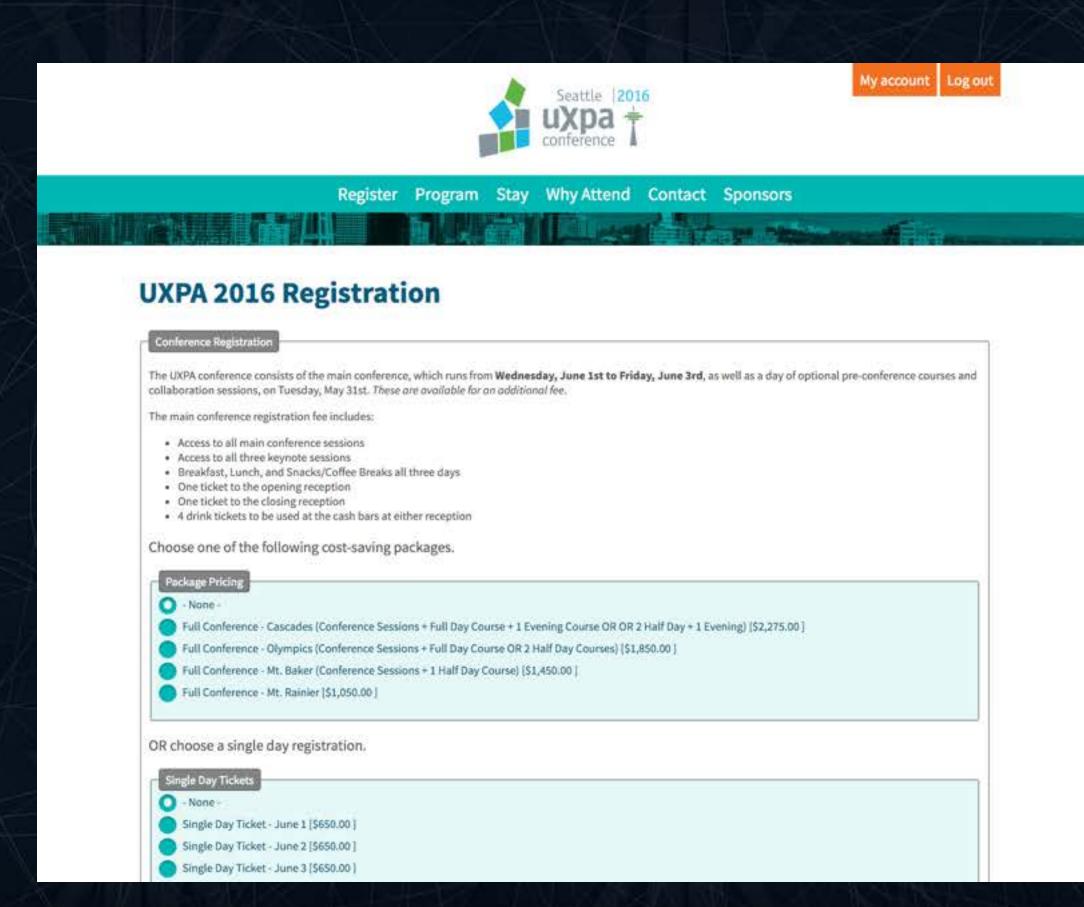
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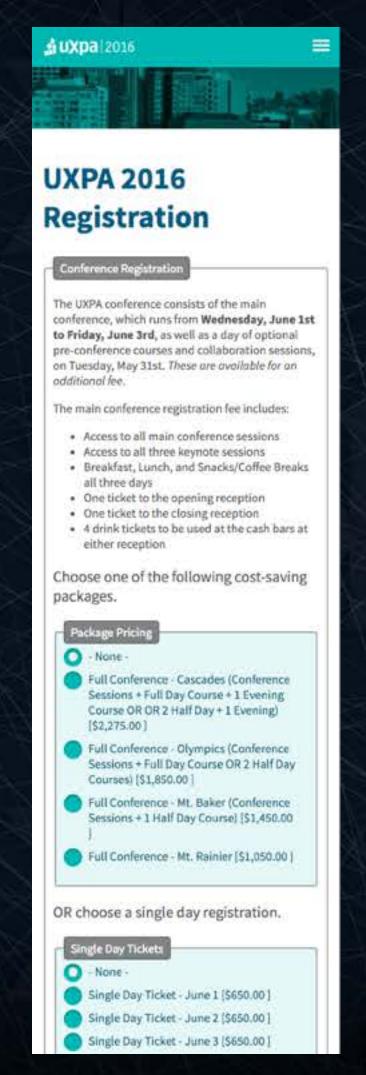
	Mt. Rainier Cas Basic Plan \$			
Swipe to see options +				
Conference Sessions	9			
Full Day Course + Evening OR 2 Half Day + 1 Evening				
Full Day Course OR 2 Half Day Courses				
Half Day Course				
Breakfast & Lunch - 5/31				
Early Bird Price - Member[4]	5800	100		
Early Bird Price - Regular	5900	q		
Early Bird Price - Student	5350			
Regular Price - Member	\$950	\$		
Regular Price	\$1,050	S		
Student ⁽⁴⁾³⁾ Regular Price	\$400	\$		
Late Price - Member	\$1,150	s		
Late Price	\$1,250	\$		
Student ⁽⁴⁾⁽³⁾ Late Price	\$450	\$		
On Site Price - Member	\$1,400	s		



User-Centered Form Design

Often overlooked, but critical for sales conversions. Here, careful attention paid to tap areas on selects and readability on mobile.



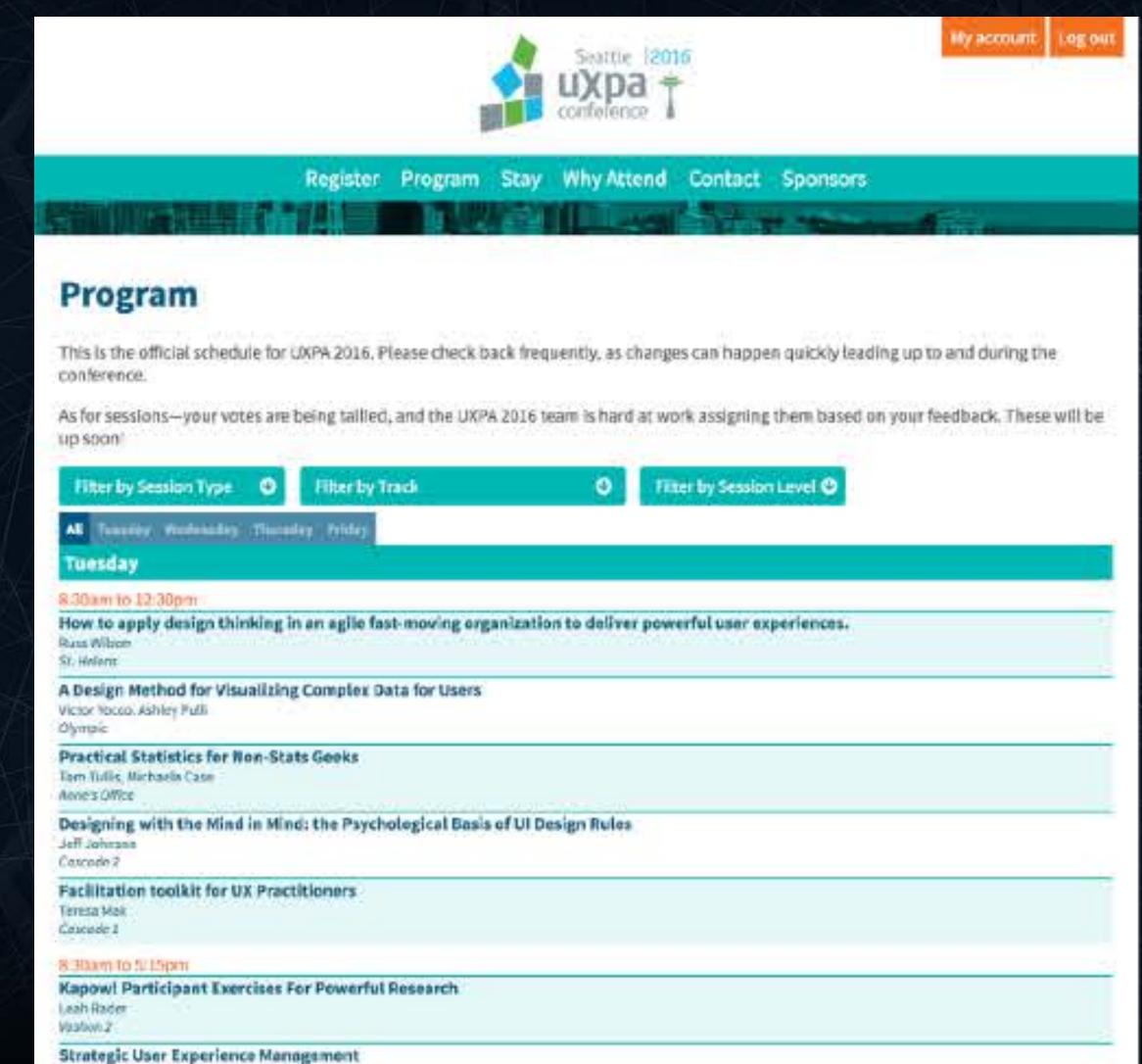




Improved Program UX

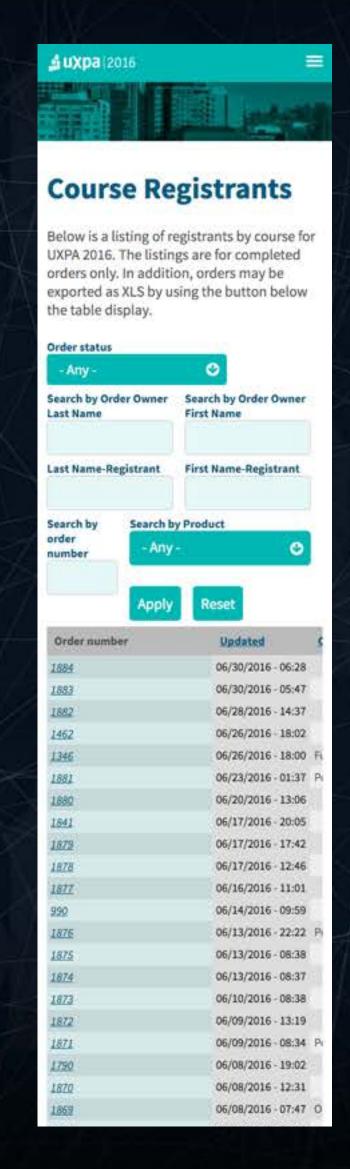


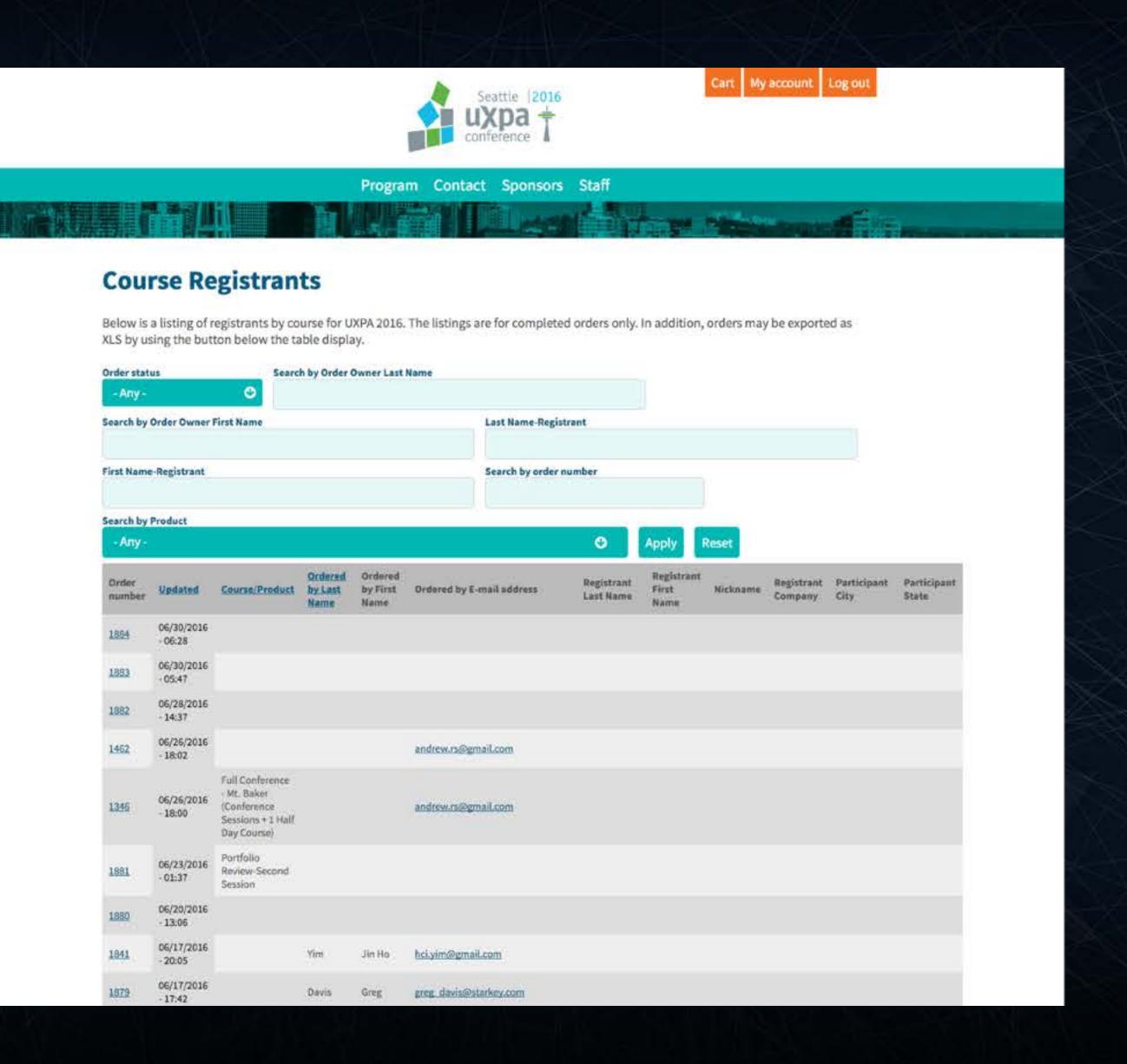






Staff Administration UX







UXPA 2016 Takeaways

- Registration is up, helped by an improved user experience
- Mobile experience is enhanced, especially for on-site schedule needs
- Improved integration with surveys and presentations
- Enhanced staff functionality—for registration reports and editing





Building Support

- Involving key stakeholders from the start of the process helps to ensure buy-in.
- In-house success stories help strengthen your case. Supplement with noted external stories when starting out.
- Making others aware of the process (and what's involved) raises your standing within the organization.
- Government initiatives such as the USDS (U.S. Digital Service).
- Empathize that what helps the user ultimately helps you.



Most business models have focused on self interest instead of user experience

TIM COOK, CEO, APPLE



Organizations

- UXPA International
- AIGA
- DC Design Thinking
- Local Web and design-related Meetups
- Online communities (Stack Exchange, LinkedIn, for starters)



Additional Reading

Suggested Resources

- The User Experience Team of One: A Research and Design Survival Guide (Rosenfeld) Leah Buley, July 2013
- Don't Make Me Think, Revisited: A Common Sense Approach to Web Usability (3rd Edition) (Voices That Matter) Steve Krug, January 2013
- The Design of Everyday Things: Revised and Expanded Edition (Basic Books) Don Norman Nov 5, 2013
- A Project Guide to UX Design: For user experience designers in the field or in the making (2nd Edition) (Voices That Matter) 2nd Edition Russ Unger and Carolyn Chandler, March 2012



Thank You



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