

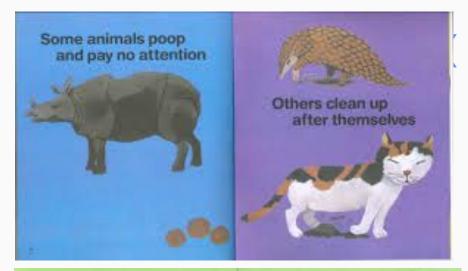
Introduction to User Experience 4 ways to frame it

CS 3240 - Usability Engineering Keith Instone

EVERYONE POOPS

By Taro Gomi









Everybody eats. People have eating experiences.

Cooking skills can be learned. Cooking is part art and part science.

Managing food industry organizations is big business. It depends on business models, culture, and more.

There are many paths to being a culinary professional. You can learn on the job, study on your own, or get a degree.





User-centered design skills can be learned. Defining, designing and delivering good experiences is part art and part science.

Managing customer and employee experiences is big business. It depends on business models, culture, and more.

There are many paths to being a UX professional. You can learn on the job, study on your own, or get a degree.

Everybody eats. People have eating experiences.







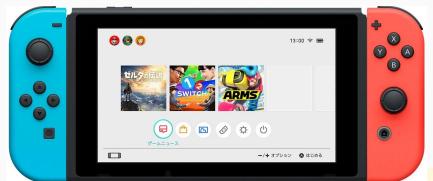


Menus are an interface, but they are not the whole dining experience

Everybody uses technology. People have user experiences.



User interface: the buttons, controls & menus you interact with directly



User experience: the context, content, expectations, etc. that determine how you FEEL and what you REMEMBER



New Study Ranks Animal Crossing: New Horizons As Most Relaxing Game, Surprising No One

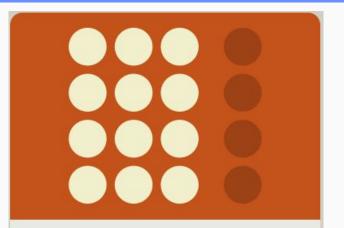




"Laws" of User Interface Design & UX



<u>lawsofux.com/</u>



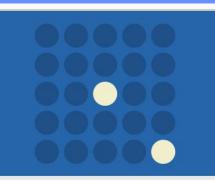
Law of Proximity

Objects that are near, or proximate to each other, tend to be grouped together.



Aesthetic-Usability Effect

Users often perceive aesthetically pleasing design as design that's more usable.

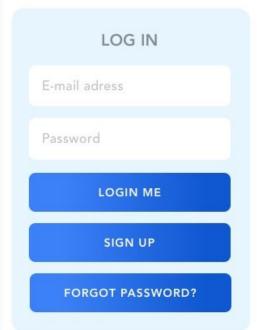


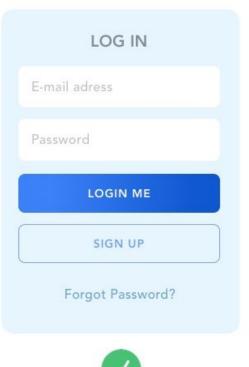
Peak-End Rule

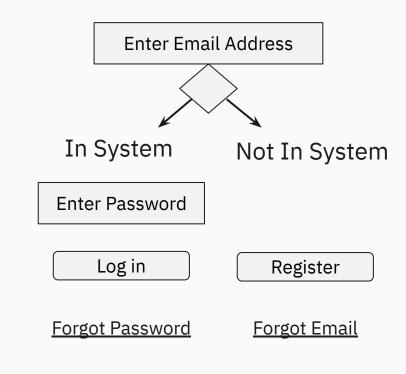
People judge an experience largely based on how they felt at its peak and at its end, rather than the total sum or average of every moment of the experience.

When "consistency" might be bad And what if you could redesign the flow?













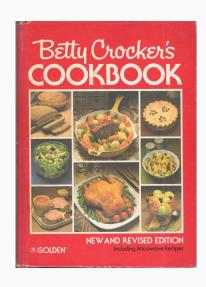
Replace "users" with specific phrases for different situations

- <u>Customers</u>, Potential customers, Current customers
- Employees, New hires, Invoice approvers
- Patients, Family members, Doctors, Anesthesiologists
- Residents, Citizens, Voters
- Faculty, Students (roles) → Teaching, Learning (goals)
- Non-humans? <u>Dogs</u>, <u>chickens</u>

Cooking skills can be learned. Cooking is part art and part science.





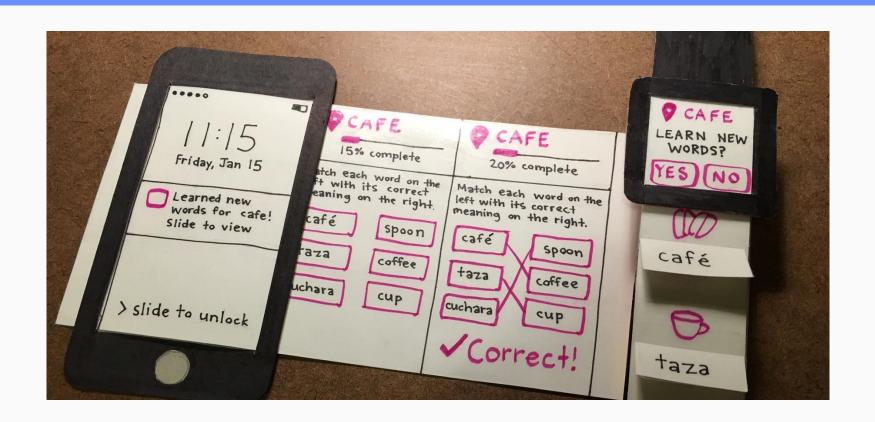




User-centered design skills can be learned.

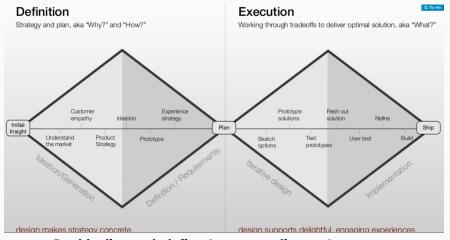


Defining, designing and delivering good experiences is part art and part science.





UCD: iterative, understanding users at every step



Double diamond: define & execute, diverge & converge



gure 1.3. An overview of the Goar-Directed process

Goal-directed

A LANDSCAPE OF USER RESEARCH METHODS BEHAVIORAL Eyetracking Clickstream Analysis A/B Testing Usability Benchmarking (in lab) Moderated Remote Usability Studies Usability Lab Studies Unmoderated UX Studies Unmoderated Remote Panel Studies Ethnographic Field Studies True Intent Studies ← Concept Testing → → Diary/Camera Studies Participatory Design Customer Feedback ← Desirability Studies → A Focus Groups Intercept Surveys ATTITUDINAL — Card Sorting → → A Email Surveys Interviews

KEY FOR CONTEXT OF PRODUCT USE DURING DATA COLLECTION

QUALITATIVE (DIRECT)

© 2014

Christian Rohrer

Natural use of product

Scripted (often lab-based) use of product



Requirements Methods

Current topics

- · Affinity Diagramming
- Claims Analysis
- · Competitor Analysis
- Future Workshop
- Persona
- Quality Function Deployment (QFD)
- · Stakeholder Interview
- · Scenario of Use
- Use Case
- · Usability Benchmark

How does heuristic evaluation compare to usability testing?

Heuristic evaluation was codified around 1990, at a time when it was expensive to get access to users. It was common for people to have to be trained to use the technology being evaluated before they could sit down in a usability lab to perform some tasks. The whole concept of even having an interface for end-users was pretty new. Conventions were just settling into place.

Usability testing has been around since at least the 1980s, but began to be widely practiced about the same time Nielsen and Molich published their heuristic evaluation method. While usability testing probably needs some updating as a method, the basic process still works well. It is pretty

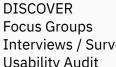
Methodology: knowing when (& when not) to apply a specific technique for a specific project based on goals, budget, time, ... 13

De-contextualized / not using product

Combination / hybrid

QUANTITATIVE (INDIRECT)





Interviews / Surveys Usability Audit Gap Assessment

Usability Goals

Requirements Gathering

DEFINE

Brainstorming

User Profiling Storyboarding

Creative Direction

Requirements Definition

User Experience Definition

DESIGN

Wireframing

Prototyping

Functional Design Design Concepts

Visual Design



DEVELOP

UI Application Coding Style guides

UI Specifications

DEPLOY

UI Assessment

Standards

Compliance Check

Accessibility Testing

User Training

Expert Evaluation

DRIVE

Usability Check

Maintain & Support

New Needs

Mapping steps in a process to specific activities: methods, work products & deliverables

UX as Mindset & Personality Type



"Everyone needs to get better at UX if we want to be agile and innovative."

A skill set, a collection of abilities, such as empathy, divergent thinking, and sketching, which can be applied to any professional or creative endeavor

Listed for UXers (and other roles)

- > Empathy, team player
- Solution driven, delivery focus
- People, relationships
- Passion, energy
- Communication, listening
- Creativity
- Technology understanding

Common for UXers

- Sketching
- Storytelling
- Critiquing
- > Presenting
- Facilitating



UXers have LOTS of methods for understanding human behavior, plus synthesizing, communicating & getting buy-in

- Personas & customer journeys are "popular" ones
 - Often being taught & done poorly, outdated
- Qualitative & quantitative user research
- Attitudes vs. behaviors
- Design workshops & visualizations
- Invest in design → Less need for training

Managing food industry organizations is big business. It depends on business models, culture, and more.









Managing customer and employee experiences is big business. It depends on business models, culture, and more.













UX as Team



"Is UX done yet? We need to start coding!"

A team (made up of various roles) that defines, designs, and delivers solutions for customers, employees, business partners, citizens, and other groups of people

Common roles on a UX team

- Visual designer
- > User interface designer
- > Interaction designer
- Product designer
- > Experience designer
- > Information architect
- Content strategist
- User researcher
- Experience architect
- > Prototype developer
- Usability specialist
- Accessibility specialist
- Design system manager
- > Project manager
- Manager

Other team names

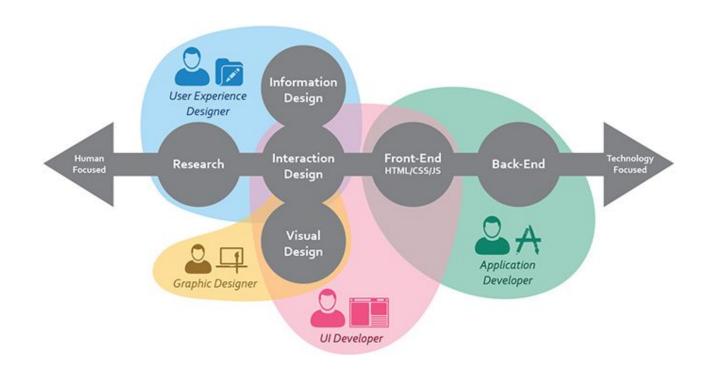
- Design
- > Product design
- Service design
- Digital design
- > Experience design
- Customer experience
- > Employee experience
- > Experience strategy
- > <Business unit> design (if distributed)
- Usability
- DesignOps
- > ResearchOps

Common "owners of UX" & "homes for UX teams"

- > CEO, CTO, CIO, CMO, CDO, CXO
- > Vice President, Director, Manager
- Engineering
- > Product
- > IT
- Marketing
- > HR
- > Innovation
- Customer service
- Communications
- > <Business unit>

Interest	Physical World	Digital World	Role, Job Title
Builder	Wheelchair ramps, birdhouses	Applications, websites	Software engineer
Artist	Posters, paintings	Screens, animations	Visual designer
Tinkerer	Legos, Rube Goldberg machines	User interface design systems, front-end coding	Interaction designer & developer
Organizer	Sort books, re-arrange kitchen	Content management, tagging	Information architect
Writer	Fictional storyteller, journalist	Website editor, technical writer	UX writer
Listener	Therapist, "good friend"	User interviews, field studies	User researcher
Scientist	Biology experiments, science fairs	A/B tests, usability evaluations	Usability specialist





Mapping roles to responsibilities on a team



UX as an organizational capability:

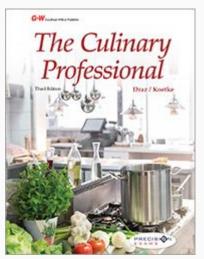
If you want to build an empire, own UX

If you want to change the organization, democratize UX

It depends on your organizational culture, design maturity, ...

There are many paths to being a culinary professional. You can learn on the job, study on your own, or get a degree.







There are many paths to being a UX professional. You can learn on the job, study on your own, or get a degree.











Classes at BGSU

- TAAE > VCT > VCT 3500 User Experience
- A&S (Arts) > Design > GDSN 3055 User Experience/User Interface Design
- A&S (Science) > Computer Science > CS 3240 -Usability Engineering
- TAAE > Systems Engineering > SYE 3020 Workplace Design [ergonomics]
- Business > Applied Business Experience (BizX) [design thinking]
- A&S (Science) > Psychology > PSYC 3330 Cognitive Neuroscience

Dimensions of UX Communities



UX Professionals

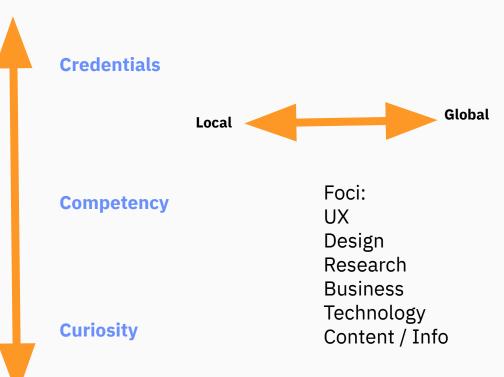
Knowledge, Ethics, Academia

UX Practitioners

Jobs, Conferences, Mentoring

UX Aficionados

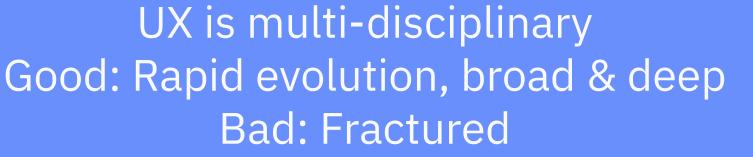
Awareness, Meetups, Related careers



What should you study to be good at UX? X

- 45% Cognitive Psychology
- 32% Human-Computer Interaction
- 13% Graphic & Visual Communication Design
- 4% Rhetoric & Writing
- 3% Business Management
- 2% Library & Information Science
- 2% Criminal Justice

From UX Australia keynote





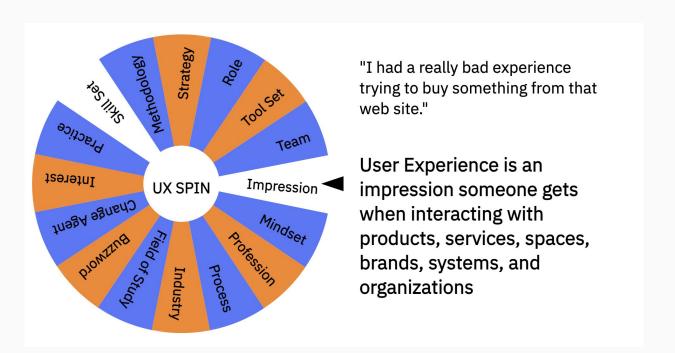
Core (1980s) from CS + Psychology (Human-computer interaction)

Ugly: Getting 1st job in UX

- o Information Science (1999), Graphic Design (2003)
- o Humanities, Business, Industrial design, ...
- Growing pains (accelerated by generative AI)
 - Qualifications vs. Inclusion
 - Art vs. Science
 - Business vs. Social



More about My UX Framework https://spin.dexterityux.com/



	Textbook Chapters
Everybody uses technology. People have user experiences.	THEORY & SCIENCE Chapters 3, 4, 5, 6
User-centered design skills can be learned. Defining, designing and delivering good experiences is part art and part science.	DESIGN PROCESS Chapters 2, 7, 12
part science.	USER RESEARCH Chapters 8, 9
	EVALUATION Chapters 14, 15, 16
Managing customer and employee experiences is big business. It depends on business models, culture, and	USER RESEARCH Chapter 10
more.	SOFTWARE DEVELOPMENT Chapters 11, 13, 15
There are many paths to being a UX professional. You can learn on the job, study on your own, or get a degree.	INTRO TO DISCIPLINE Chapter 1



Cexterity User Experience LLCTM

Keith Instone

Founder

instone@dexterityux.com 419.569.1217

dexterityux.com