Web User Experience: Where the technology fits in

Spring
 2004 Info Tech Conference

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Hi, I am Keith

- Information Architect, User Experience, ibm.com
- Computer science > Human-computer interaction > Hypertext > Web usability
- Telecommute to work from Toledo
- In-laws live near Old Man's Cave

Overview

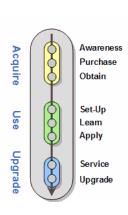
- User experience
- Roles who
- Principles what
- Methods how

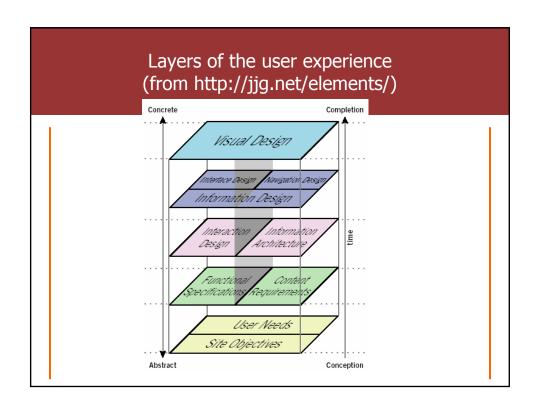
What do we mean by "user experience"? (Microsoft)

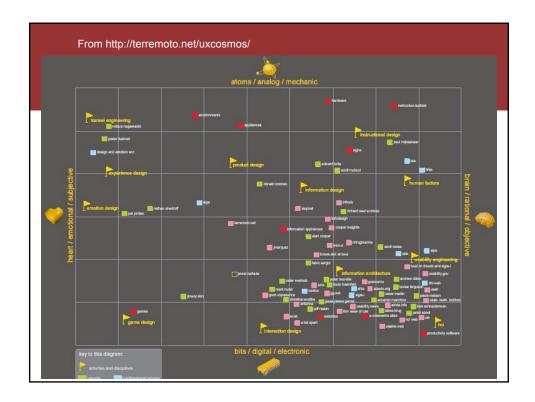
 User experience...represents an approach that puts the user, rather than the system, at the center of the process...incorporates user concerns and advocacy from the beginning of the design process and dictates the needs of the user should be foremost in any design decisions (MSDN)

What do we mean by "user experience"? (IBM)

User Experience Design addresses the user's initial awareness, discovery, ordering, fulfillment, installation, service, support, upgrades, and end-of-life activities



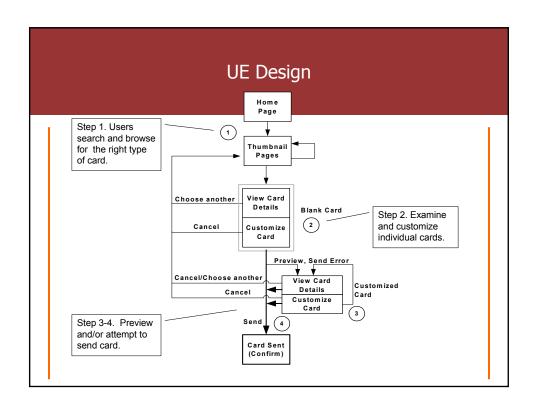


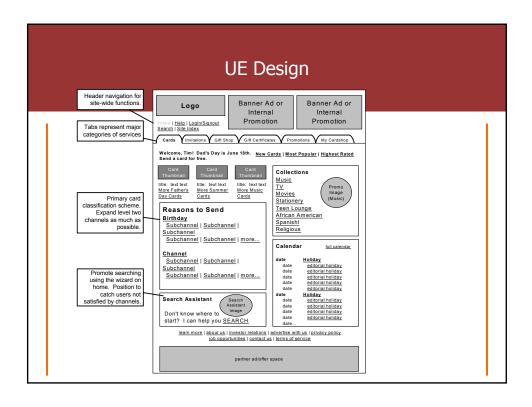


User experience team

- UE lead
- Business analyst
- User researcher
- UE designer
 - Information architect, interaction designer, user interface designer
- Visual designer
- UE evaluation
- Content specialists
- Developers

User research — "Users in the Mist" Let Paley Change Application 24000 Don't Proper to use the Change Cha





Question: How do you organize your teams?

- One-(wo)man-band? Programmer/writer/designer/therapist
- Client agency model?
- Development team (with perhaps a usability/design consultant)?
- Multidisciplinary?
- End-to-end vs. waterfall model?

"User experience" is a good label for the team to gather under

"Principles" of user experience

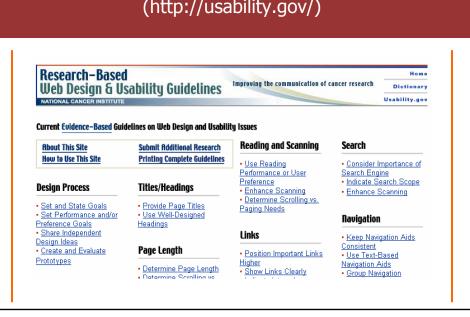
- Don't fight biology
- Understand behavior
- It is not as new as you think
- You are not as special as you think
- Plan on getting it wrong the first few times
- It should be usable and enjoyable
- Value, value, value
- Think outside the box

Don't fight biology Red text Light blue text Usability Glossary: Fitts' Law T = k log₂(D/S + 0.5), k ~ 100 msec. T = time to move the hand to a target D = distance between hand and target S = size of target

Understand behavior



It is not as new as you think (http://usability.gov/)





Plan on getting it wrong the first few times

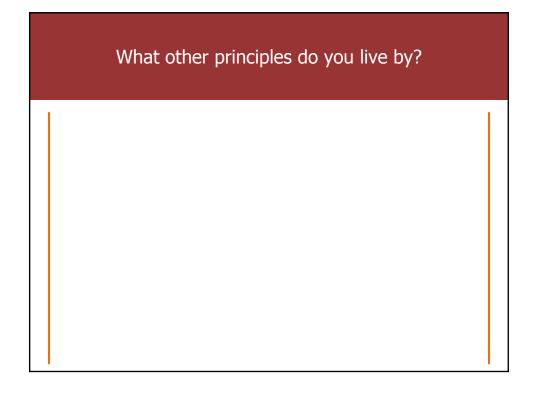
- Include iteration in the project plan
- OK, good enough to launch it
- (See user testing later)



Value, value, value

- "It is the right thing to do" only goes so far
- Value to the customer
- Value to the business
- Bridge between user, business and IT pretty good job security





Most important tool: Usability Testing

 Give representative users realistic tasks, watch quietly, be amazed



Clips from Flash usability testing (Nielsen Norman group http://www.nngroup.com/reports/flash/)

- 00:30 Make sure splash pages serve a user-centered purpose
- 03:16 Keep drag-and-drop manipulations as simple as possible
- 07:30 Make it easy for people to rotate objects
- 09:47 Don't have gratuitous motion
- 12:18 Don't have unnecessary sound
- 16:12 Opening and new browser window can cause user problems
- 20:49 Have an obvious way to pan maps
- 23:05 Don't hide the names of locations
- 27:08 Avoid overly complex and fancy features
- 37:26 Gently guide users through an expected work path
- 43:34 Make sure people understand the purpose and rationale for the application

First reactions from doing user testing (actual client quotes)

- "It is such a rush. This is what I want to be doing!"
- "Not good news. A real eye-opener. We gotta get the developers involved so they can see where people are struggling."
- "The testing was not too hard, but now how do we get the results taken seriously?"

What experiences do you have with user testing?

Please share your stories.....

Planning usability testing

- Purpose and audience of site
- Usability goals
- Tasks
- Participants, scheduling, payment
- Materials
- Setting
- ...Expect to hear bad news

Doing usability testing

- Introduction for participant, list of tasks
- Watch quietly
- Record behavior (take notes, tape)
- Interact with participant
- Debriefing, questionnaire, payment

Benefiting from usability testing

- Tabulate data
- Findings
- Recommendations
- Actions

Levels of Commitment

- Opportunistic usability testing
 - Anything is better than nothing
- Quick and dirty
 - Some planning, but not too much
- Multi-purpose rooms
 - "Hey, lovebirds, at least get a room"
- Full usability labs
 - Cha-ching

Opportunistic

- Do mini usability tests whenever/wherever opportunity arises
- 15 minutes = opportunity
- Violin lessons, after short meetings, cleaning lady, nosy relatives
- A 1-hour usability test: tradeshow, laptop, 50-line email

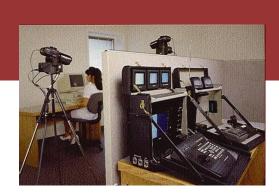
Quick and Dirty

- Shortcuts on the planning: get convenient participants, not ideal ones
- Convenient locations
- Realistic (self-made) tasks, sometimes
- Debriefing very important: ask why
- Shortcuts on the write-up

Multi-Purpose Rooms

- Use available space as laboratory-for-a-day
- Bring in portable equipment
- Convert an empty office into a full-time lab
- Use a lab for other things to help justify cost
- Since people coming to you, do more planning





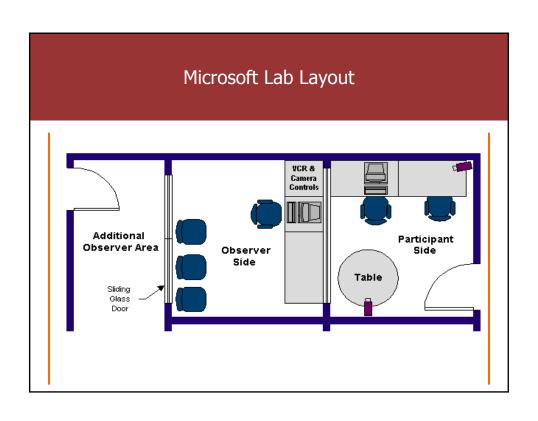






Full Usability Labs

- Build rooms just for this purpose
- Adjoining, sound-proofed rooms
- Video cameras, scan converters, twoway mirrors, microphones, etc
- Cost: \$80-120k
- Do it all of the time to recoup investment (also very good for marketing usability)



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Plan Do Follow-up Hours Users Deliverable Start-up	Opp25 .50 .25 1 2 Email 0	Q&D 4 4 4 12 3 Text 0	MPR 5-15 6-10 5-15 16-40 4-5 Video- \$1-30	6-10 5-15

Variations of Usability Testing

- Most common: Make specific parts better (3-5 users, repeat often)
- User research: one of many such activities
- Benchmarking, external (comparative analysis)
- Benchmarking, internal (ROI)
- Prototyping: paper, computer
- Quality assurance (usability goals)
- Research ("statistically significant")
- Shock usability testing (get CEO to notice)

The Point: It's painful but worth it

- I've always been surprised & learned something
- Easy to do on a small scale, can also become institutionalized
- Flexible technique: qualitative & quantitative

Recap

- User experience = team with a broad view
- It is a matter of principals...
- User testing: just do it

Thanks for your attention!

This presentation and other stuff about user experience:

http://user-experience.org/

PS The best book not on the market: The Flash Usability Guide

