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Web Usability: What it is and Why You Need it The Business Link - Nov.20, 2003

Who am I?

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Agenda

- What is usability?
- How do you do it?
- What are the benefits?

Usability - the simple definition

"...usability really just means making sure that something works well; that a person of average (or even below average) ability and experience can use the thing for it's intended purpose without getting hopelessly frustrated."

-Steve Krug, author "Don't Make Me Think!"

The IT heretic says:

IT projects aren't about technology!

• IT projects are about enabling people to perform tasks.

Recipe for Disaster

If your project seems to be all about...

- Implementing software
- Writing code
- Meeting technical requirements

... it's likely to fail at the user-level.





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Usability - the technical definition

The ISO defines usability as:

"...the extent to which a product can be used by specified users to achieve specified goals with effectiveness, effeciency, and satisfaction in a specified context of use."

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Requirements Analysis

specified users: Who will use the system?

specified goals: What tasks do they need to complete?

specified context: Where will they use the system?



Success Criteria - User Experience

effectiveness: Can they complete the task?

effeciency: Can they do it in a reasonable time?

satisfaction: Are they happy, or do they feel like crying?

How do you DO that?

Many user-centred design processes are ready and waiting for you to adopt.

–Usability Central

- "The Usability Engineering Lifecycle" (Deborah Mayhew)

–ISO 13407 "Human centred design process for interactive systems"

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3 Commandments of Usability

- 1. Know your users & include them in the process
- 2. The process must be iterative
- 3. Evaluate each iteration

Weapons for the Fight

- 1. Prototypes
- 2. UserTesting
- 3. Heuristic Evaluation



Prototypes

- Storyboards
- Mockups

Do simple prototypes as early as possible.

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Prototypes

- Provide a common language that everyone understands
 - Projects typically employ a variety of people from a variety of disciplines
 - These people think and communicate in different ways
 - Good communication and a common understanding are critical



Prototypes

- Can be tested with users
 - Put your best understanding into a prototype and test it
 - Throw away your narratives and draw a picture!

User Testing

- Don't confuse user testing with focus groups.
- User testing is one-on-one.
- User tests allow you to observe the behavior of people as they interact with a system

User Testing

- 1. The primary goal is to improve the usability of a product
- 2. The participants represent real users
- 3. The participants do real tasks
- 4. You observe and record what participants do and say
- 5. You diagnose the problems participants encounter and recommend changes to fix them

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4 Steps to Planning a User Test

- 1. Define the goals and concerns that are driving the test
 - Key tasks (mission critical)
 - Representative tasks (similar to others)
 - Areas of concern (suspected problems)

Planning a User Test

- 2. Determine the Profile for the Participants
 - The participants must be like the people who will actually use the product
 - Determine relevant characteristics for user group
 - List subgroups

Planning a User Test

- 3. Select Tasks to Test Create Task Scenarios
 - Good task scenarios:
 - Short
 - In the user's words, not the product's
 - Unambiguous
 - Give participants enough information to do the task

Planning a User Test

4. Decide How to Measure Usability

- a) Performance Measures
 - Time to finish task
 - Number of errors
 - Observations of frustration or satisfaction
- b) Subjective Measures
 - Perceptions
 - Opinions



Heuristic Evaluation

• Expert evaluation designed as a cheap alternative to User Testing

"Heuristic evaluation involves having a small set of evaluators (1-5) examine the interface and judge it's compliance with recognized usability principles (the heuristics)."

10 Basic Heuristics

- 1. Visibility of system status
- 2. Match between system and the real world
- 3. User control and freedom
- 4. Consistency and standards
- 5. Error prevention
- 6. Recognition rather than recall
- 7. Flexibility and efficiency of use
- 8. Aesthetic and minimalist design
- 9. Help users recognize, diagnose, and recover from errors
- 10. Help and documentation

Heuristic Evaluation

- Heuristics require interpretation
- More evaluators, up to about 5, will yield better information
- Remember, in the real world 1 is better than none!

Recap

- Usability is a relatively simple concept
- We need to focus some attention on the users
- Tools Prototypes, User Tests, Heuristic Evaluation

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Why Should You Do This?

- 1998 Study: 42% of web users find what they're looking for – a 58% failure rate.
- According to Forrester research 40% of web users don't return to sites where they've had a negative experience
- 50–70% of IT projects fail to deliver expected results.

Why Should You Do This?

 According to a Standish Group study 4 of the top 10 reasons IT projects fail are directly related to poor user design.

#1. Incomplete Requirements – 13.1%

#2. Lack of user involvement – 12.4%

#4. Unrealistic expectations – 9.9%

#6. Changing requirements – 8.7%

TOTAL = 44.1%



Reason #1 to invest in usability

- You can't afford not to
- There is a goal at the heart of your project that relates to enabling users to perform tasks
- Your project will be judged against that goal

Reason #2 to invest in usability

- Results
- The average improvement in web sites redesigned with a user-focus (according to a 2003 study by Nielsen Norman Group):
 - Sales (Conversion rate) 100%
 - Traffic (visitor count) 150%
 - User performance (productivity) 161%
 - Use of specific (target) features 202%

Reason #3 to invest in usability

• Saving time and money



The Shameless Plug

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