USER CENTERED DESIGN (UCD)

TEAM 11









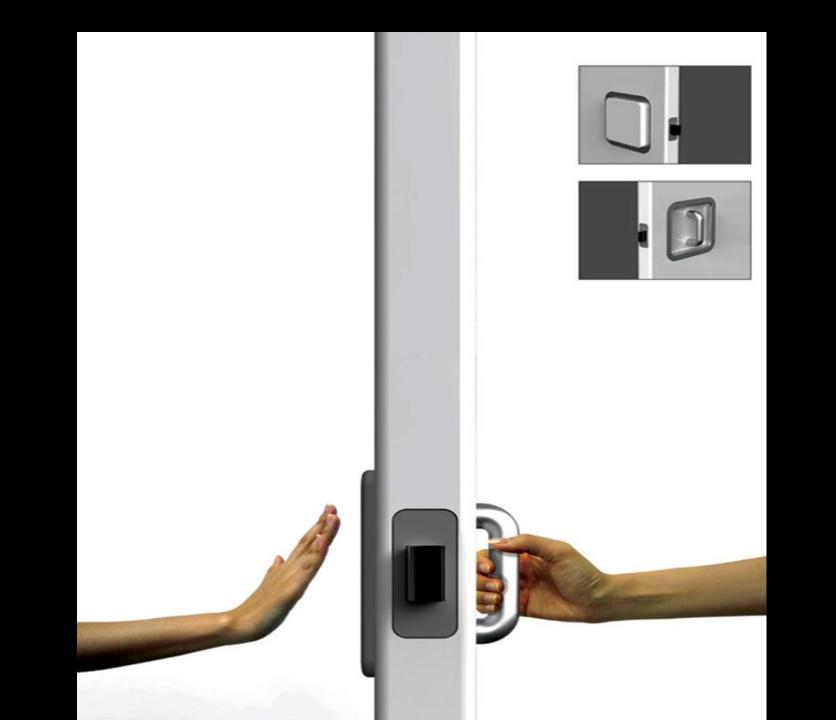






Usability: the name of the game!





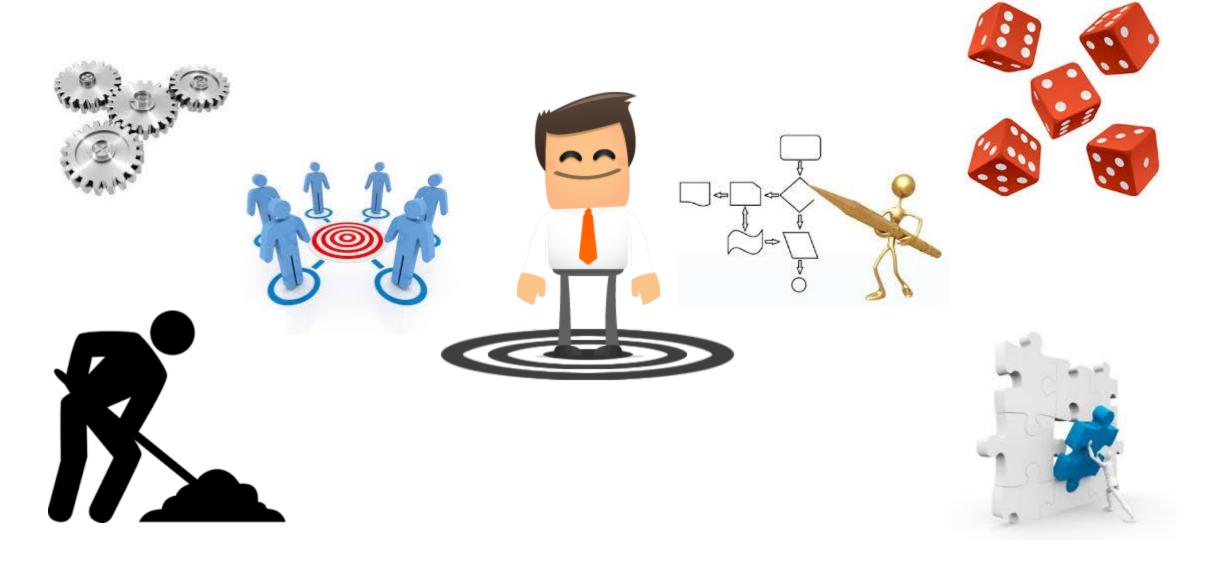




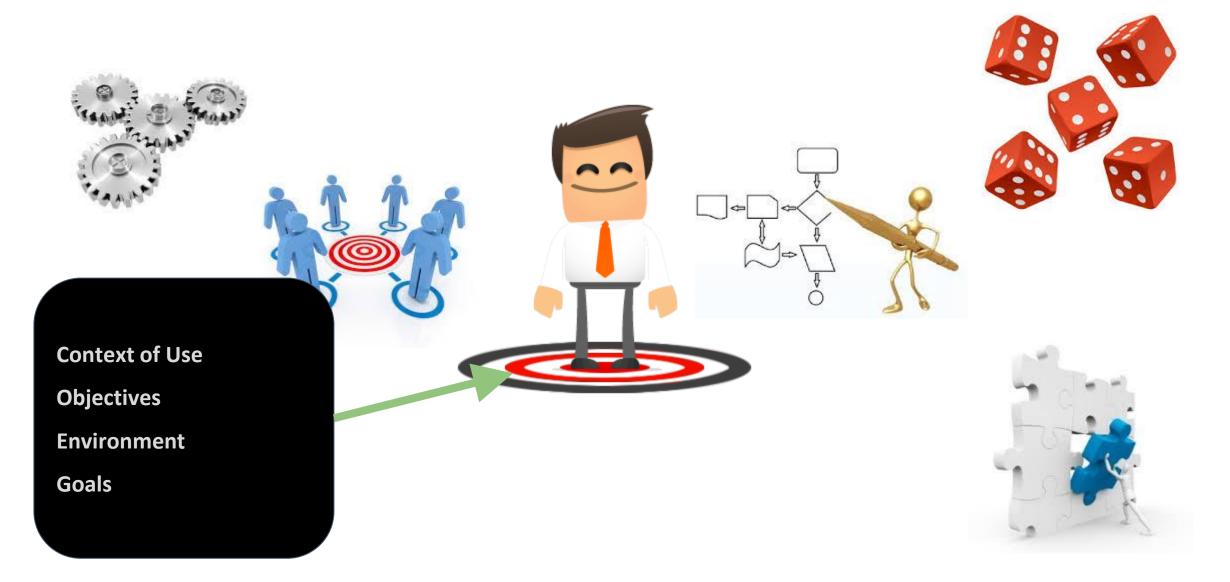




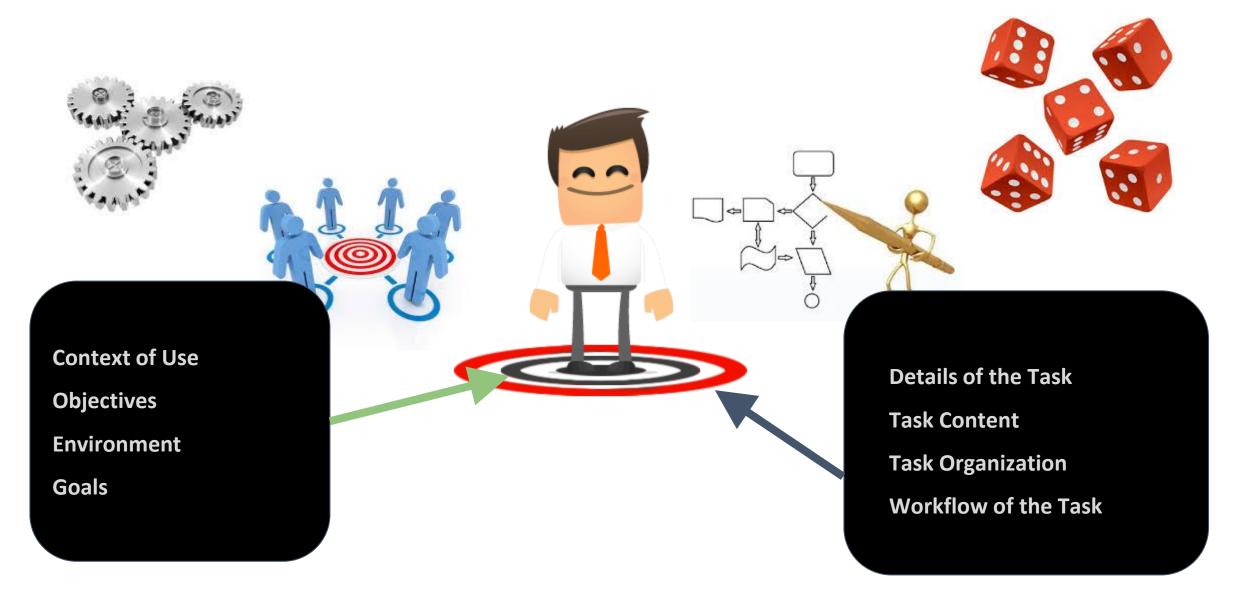
UCD - User at the center of it all...



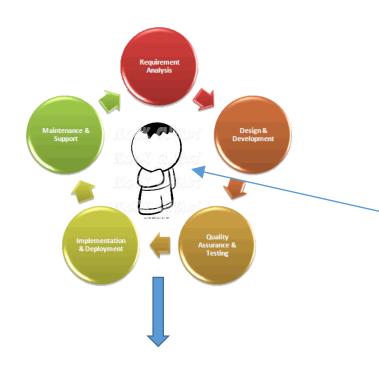
UCD - User at the center of it all...



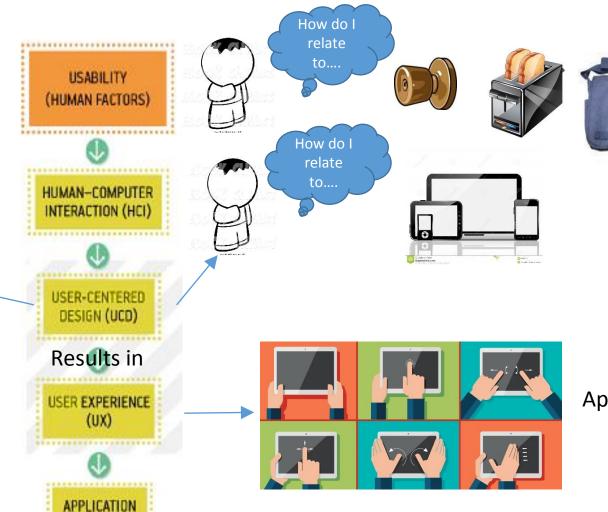
UCD - User at the center of it all...



• UCD is NOT usability.



Removes ambiguity and gets to the heart of what the user wants.



App's UX > Sum of its parts

- UCD is NOT subjective.
 - UCD works against subjective assumptions about user behavior.
 - PROVE THAT YOUR DESIGN IS EFFECTIVE!
 - Conduct Usability studies
 - Remember "Numbers don't lie".

Design based on whims & assumptions



Design based on data from usability studies



- UCD is NOT just design.
 - Not just about prettiness.
 - Concept of being user-focused: Is it about flashy animation? WRONG!
 - UCD makes an app user-focused.
 - Remember "UI is not the only focus".
 - Example: Cowboy's design purpose to round up cattle







The unicorn is definitely a more stunningly beautiful application, but its wings and horns pose a usability nightmare



- UCD is NOT a waste of time or money.
 - UCD requires reflection & observation can be time consuming.
 - Code ≠ Progress.

USER

New coding techniques, spending time with users – exist as an either/or in software development



DEVELOPER

Therefore, UCD can help save time and money!

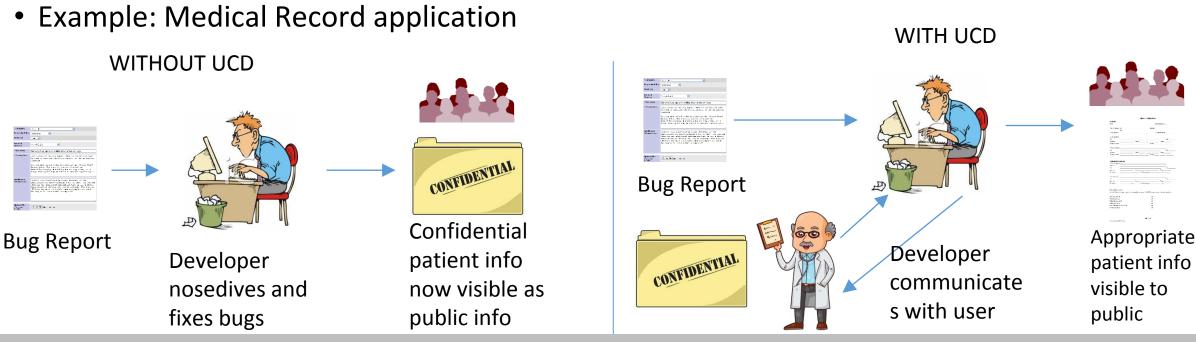
UCD

BOTH/AND

Time and money wasted on developing different frameworks that do not provide the user's desired value.

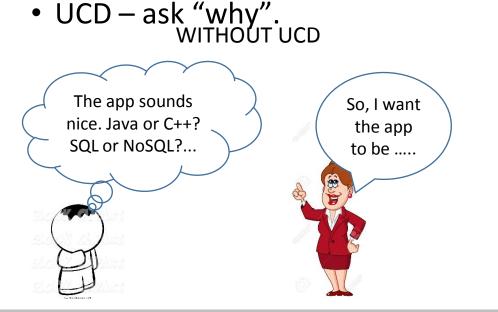
User-Centered Design: A Developer's Guide to Building User-Friendly Applications

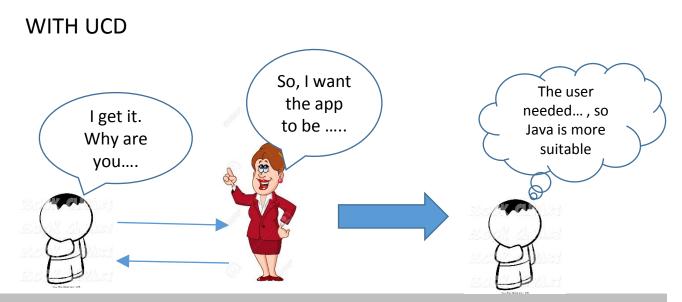
- UCD is NOT a bug report.
 - User Feedback isn't simply a task list of items to be fixed.
 - Always talk to the users and find out the cause for the bug.
 - Do not simply dive into code and fix the bug.



User-Centered Design: A Developer's Guide to Building User-Friendly Applications

- UCD is NOT a distraction.
 - Move from user requirements to technical solution do not fit requirements to technology.
 - Usability of software is not a distraction from the "real" issue of implementation.
 - Wait for user requirements before contemplating technology solutions.
 - Usability + UCD + UX = complete and focused approach to app development.





User-Centered Design: A Developer's Guide to Building User-Friendly Applications

So, What is UCD?

- We know what UCD is not.
- UCD human centered design process.
- Design and evaluate at every step of the design process.

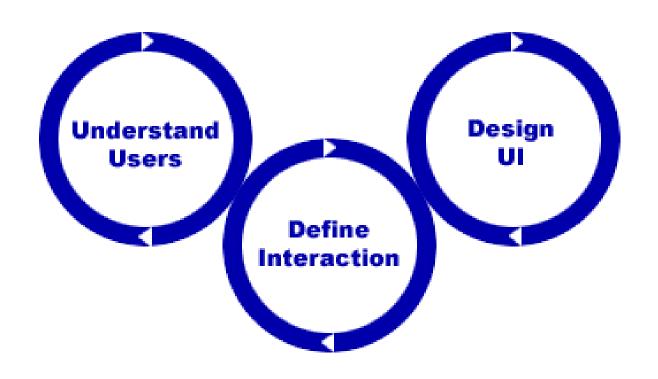
UCD is an iterative software design process that *focuses* on usability goals, and user characteristics, environments and tasks.



UCD Principles

- •Early focus on user and their tasks
- Evaluation & Measurement of Product Usage
 - Measure reality
 - What users say they do ≠ what users actually do.
- Iterated Design
 - Example: Amazon.com

User-Centered Design boils down to seeking meaningful design insights over random acts of design.



Prime -





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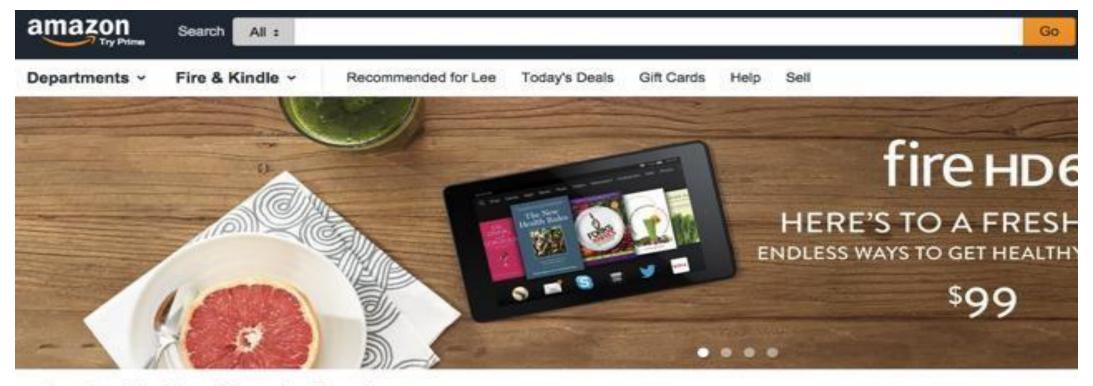




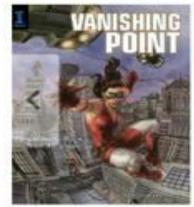


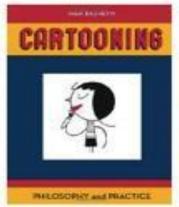


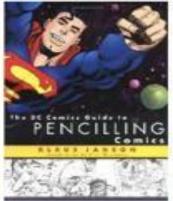
Amazon in 2015

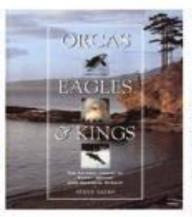


Inspired by Your Shopping Trends See more







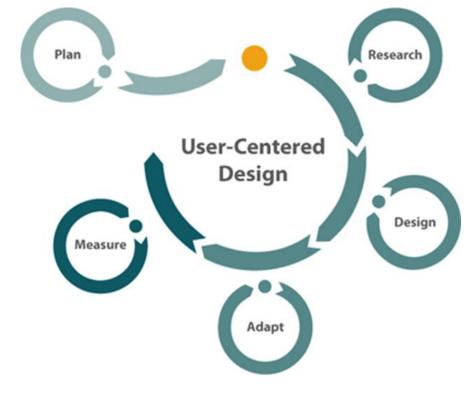






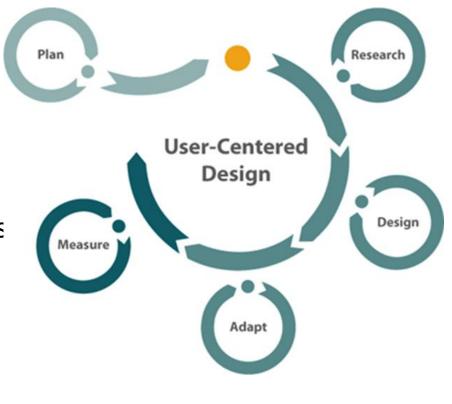
UCD Process

- Four project phases
 - Planning
 - How much do I do?
 - UCD activities tailored to meet the needs of users.
 - Engage users in cost benefit analysis.
 - Research Requirements
 - What do I do?
 - Identify user issues that contribute to success.
 - Identify business constraints.
 - Identify the users and their tasks.



UCD Process

- Design
 - Make it happen.
 - Develop simple prototypes for users to check progress
 - Evaluate design iterations from user's perspective.
- Test and Evaluate
 - Check that designs are on course.
 - User feedback most valuable.
 - Begin early, continue through development.

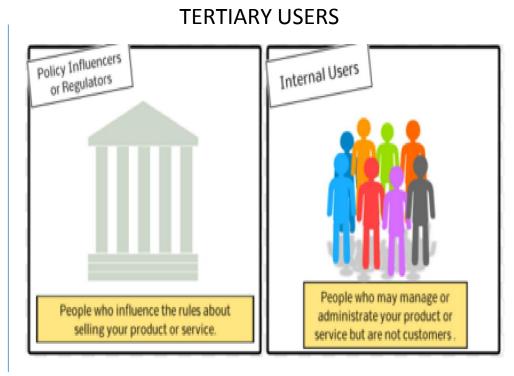


Users

• Primary, secondary, and tertiary – Good UCD takes care of all their needs.

People who will buy or use your product or service.



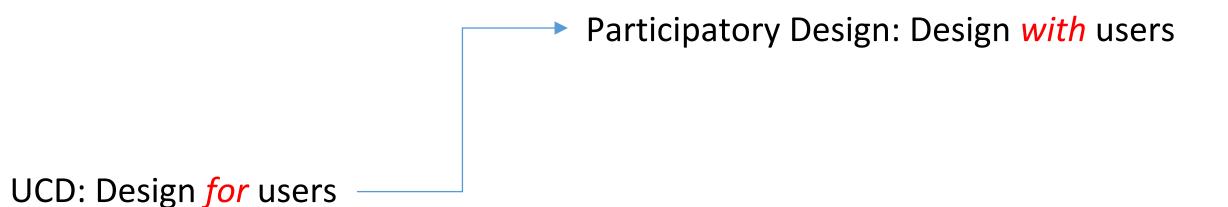


Usability Testing

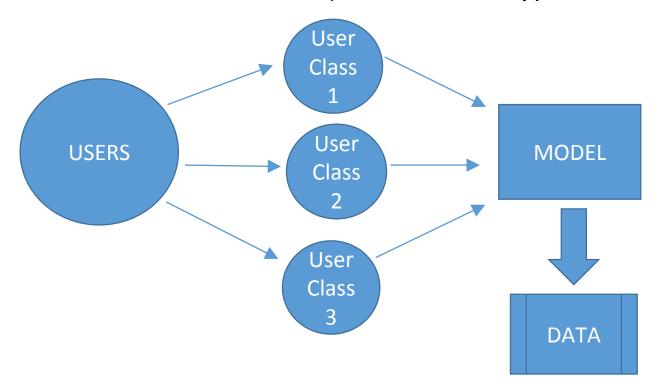
- USC is not usability but, usability plays a central role.
- Usability Testing improves products usability
 - Involves real users
 - Real tasks
 - Observes the actions of users
 - Analyzes this data
- Three popular techniques:
 - Think aloud
 - Videotaping
 - Interviews/ user experience questionnaire

Participatory Design

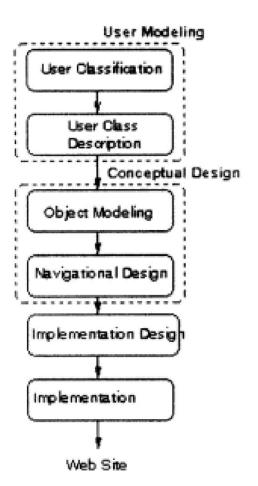
- UCD widely accepted especially in Scandinavia.
- Make users co-designers.
- Example: Children are co-designers for a children's app.



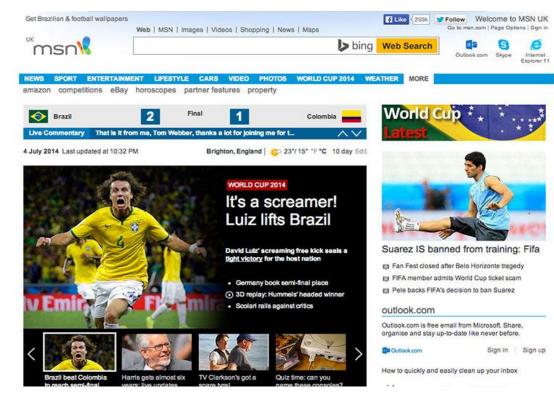
- User-Centered vs Data Driven
 - Data driven available data is the starting point
 - User Centered user (the number/ type of visitors) is the starting point



Web Site Design Method (WSDM) is a result of this.



- Concentrate on visibility
 - Visibility tells users what can/cannot be done.
 - Assists users predict their action's effects.
- User's memory load should be kept at a minimum
 - Never force user's to remember what elements mean from one page to another.
 - Site elements must be consistent across the website.



- Instant feedback
 - Feedback makes a website user-centered.
 - Tells the user that actions were registered.
- Prioritize accessibility
 - Users want quick access to information.
 - This requires organization of web content.
 - Use of site map.



OS X Yosemite
Coming this fall.



Apple.com Site Map

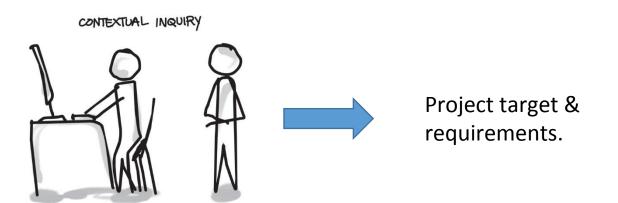


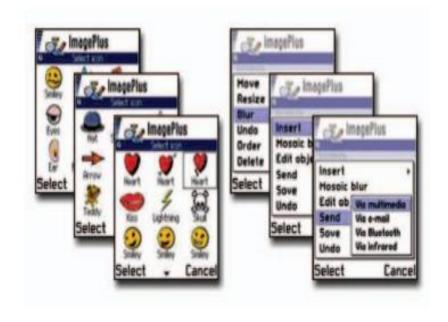
UCD in Mobile App Development



UCD in Mobile App Development

- ImagePlus integrated image editor on the phone.
 - One of the first UCD projects of Digia.





- Good UCD practices help to ensure the product works.
- Don't add features only because it is easy and cheap to implement
- Provide users with real usage context

UCD in Mobile App Development

• Fantasy's Healthcare App - Emphasis on user requirements.



Social Media and UCD

Why did Facebook beat Orkut? A lot of it has to do with usability.





The main reason's for users liking Facebook from what I found were:

- 1. Simple and professional user interface
- 2. Explanation for being added as a friend
- Unique groups or communities
- 4. Security of user's profile and information
- Many other fun applications

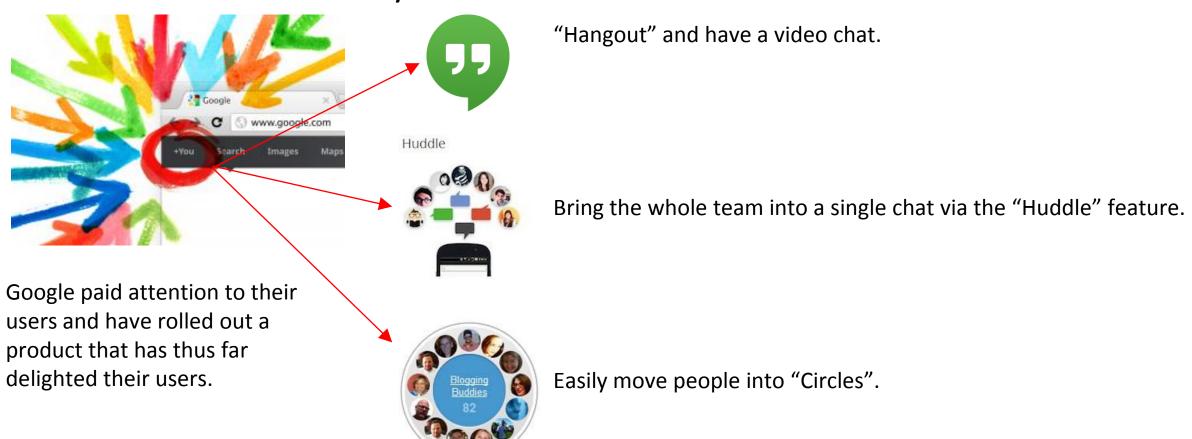
The reason's why users don't like Orkut were as follows:

- 1. Amateurish interface (as seen prior to the new one I suppose)
- 2. Open scraps and profiles owing to less security
- No provision for providing reasons to "Add as friend"
- 4. Repetitive groups or communities

Customers expect more. And if you don't give it to them they're very likely to let you know about it, or worse, let all their friends know about it on a public platform. And we all know what happens when that occurs... you lose money. But when you get it right, your audience is simply delighted. Your communication effortlessly takes away concerns, makes life easier, and depending on the topic could even save a few lives. In this case, I am talking about how much value your customer gets from your product. Your product has to be relevant and fulfill a real need or purpose, otherwise it will just be a fad or a distraction (or an utter flop). In the case of Facebook, Mark Zuckerberg figured out that the full value of the social network is not simply to provide the platform to be social, but to have virtually everyone using it and deriving some value from it. So his focus appeared to be on delivering something valuable to its users, which therefore created business value for advertisers to access a huge global audience on one platform. **(remove this text from slide – read this and speak about it)**

Google+ - User Centered Design and Content

UCD has been in front of you all this time!



Conclusions

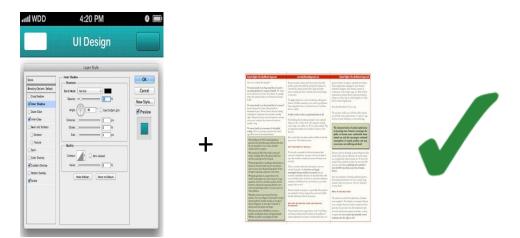
- UCD method and philosophy of designing for users
- Involves users in the design of computerized systems.
- Users participate can vary
 - Relatively light involvement
 - Consulted about their needs, observe and participate in usability testing.
 - Intensive user participation
 - Throughout the design process as partners in the design.
- Methods to support UCD
 - usability testing
 - participatory design.
- Evaluate ask users for their feedback early in design.
- Involving users in design has been shown to lead to developing more usable satisfying designs.

Conclusions

- Its okay if the user cannot use a design the first time. But if the user needs to re-learn it, then there's something wrong.
- The design must communicate with the user.
- Place the user at the center of design.



Long, cumbersome, unintelligent manuals are not user-centered



Product Design should be learnable with minimum effort, with just a pamphlet as a manual.

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Questions

THANK YOU!