Ideation & Sketching

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Ideation

- Ideation is an active, fast-moving collaborative group process for forming ideas for design.
- Ideation is a tool of design thinking; ideation is applied design thinking.
- Ideation is where you start your conceptual design.
- This is a hugely creative and fun phase.
- Ideation is where you brainstorm to come up with ideas to solve design problems.
- Ideation is inseparable from sketching and evaluation aimed at exploration of design ideas.

Essential Concepts for Ideation (1)

- Iterate to explore:
 - Ideation involves exploration and calls for extensive iteration.
 - Be ready to try, try, try, and try again.

 - Make sketches and physical mock-ups early and often, and expose customers and users to your designs; involve them in their creation, exploration, and iteration.
 This process is never formal; as well as there are no established methods for this process.

 - There are many alternatives to compare at a fast, furious and freewheeling pace. If you are starting to compare few alternatives, you are doing something wrong.

Essential Concepts for Ideation (2)

- Idea creation vs. critiquing:
 - There are two modes of thinking in the active process of design:
 - Idea creation
 Critiquing
 - Idea creation is about the generation of new ideas and throwing them out for discussion and inspiration.

 - Critiquing is review and judgment.
 Throughout the design process, always be aware that in which mode you have to be; otherwise there can be stifles between people.
 - Idea creation leads to the free flow of ideas while critiquing is actual judgement.
 Example: Implementation know-it-all.

Doing Ideation (1)

- Set up work spaces
- Assemble a team
- Use ideation bin ideas to get started
- Brainstorm

Doing Ideation (2)

- Set up work spaces:
- Set aside physical work spaces for ideation, individual work, and group work.
- Arrange for dedicated ideation studio space that can be closed off from outside distractions, where sketches and props can be posted and displayed.

Doing Ideation (3)

• The collaborative ideation studio, called the Kiva, in the Virginia Tech Department of Industrial Design.



Doing Ideation (4)

- Assemble a team:
 - The day of the lone genius inventor is long gone; hence a **team.**
 - Gather a creative and open-minded team.
 - We all have the innate ability to think freely and creatively; we just have to allow ourselves to get into the mode—and the mood—for a freethinking flow of ideas without inhibition and without concern that we will be criticized.
 Try to include people with a breadth of knowledge and skills, crossdisciplinary people who have experience in more than one discipline or area.

Doing Ideation (5)

- Use ideation bin ideas to get started:
 - If you gathered ideation inputs into a "bin" of work activity notes back in contextual analysis, now is the time to use them.
 - An ideation input bin is an unconstrained and loosely organized place to gather all the work activity notes and other ideas for sparking and inspiring design.
 - You should also include emotional impact factors in your ideation inputs because ideation is most likely where these factors will get considered for incorporation into the design.

Doing Ideation (6)

- Brainstorm:
 - Brainstorming is a "conference technique of solving specific problems, amassing information, stimulating creative thinking, developing new ideas, etc., by unrestrained and spontaneous participation in discussion."
 - Ideation is classic brainstorming applied to design.
 - Setting the stage for ideation.
 The mechanics of ideation.

 - Rules of engagement.



SKETCHING (1)

- We have already mentioned sketching several times.
- Sketching is the rapid creation of freehand drawings expressing preliminary design ideas, focusing on concepts rather than details.

SKETCHING (2)

- Essential Concepts:
 - Sketching is essential to ideation and design.
 - What sketching is and is not.
 - Sketches are not the same as prototypes.
 - Sketching is embodied cognition to aid invention.

SKETCHING (3)

- Sketching is essential to ideation and design:
 - Design is a process of creation and exploration, and sketching is a visual medium for that exploration.
 - Sketches also serve as an important longer-term design documentation.
 - This helps other team members and designers retain understanding of the design and its details as they get into prototyping and implementation.
 - The evolution of your sketches provides a history of your thinking.

SKETCHING (4)

- What sketching is and is not:
- A sketch is a conversation between the sketcher or designer and the artefact.
- A sketch is a medium to support a conversation among the design team members.

SKETCHING (5)

- Sketches are not the same as prototypes:
- Sketches are for exploring the possibilities for creating a design.
- Sketching is designing, whereas prototyping in the usual sense is implementation to build a concrete design representation for testing.



SKETCHING (6)

- Sketching is embodied cognition to aid invention:
 Sketching is not intended to be a tool for documenting designs that are first created in one's head and then transferred to paper.
 - In fact, the sketch itself is far less important than the process of making it.
 - The process of sketching is a kind of cognitive scaffolding, a rich and efficient way to off-load part of the cognition, especially the mental visualization, to physical artefacts in the world.

References	Thank You ©
The UX Book- Process and Guidelines for Ensuring a Quality User Experience, Rex Hartson	