





NPTEL ONLINE CERTIFICATION COURSE

Introduction to Interaction Design

Lecture 03 Interaction Design Process

> Prof. Sonal Atreya DEPARTMENT OF DESIGN

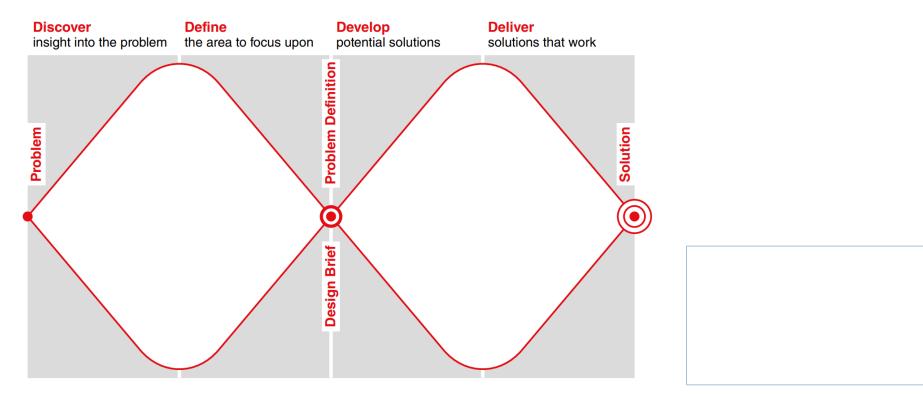
> > DARES INGRASON BUILDING

Process of Interaction Design



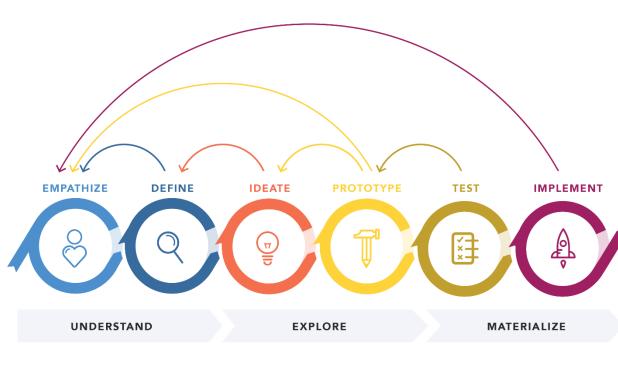


The double diamond of Design





The Design Thinking process



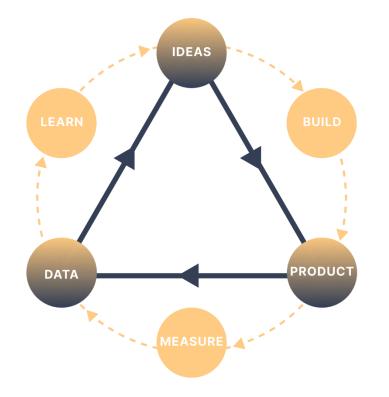
Design Thinking is a humancentred problem-solving approach that focuses on understanding the needs and desires of the end user. It involves six phases: Empathize, Define, Ideate, Prototype, Test and Implement.



Source: Neilson Norman Group



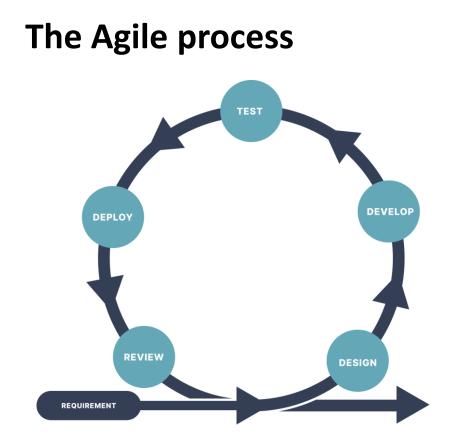
The Lean Startup process



The Lean Startup process is a methodology used in designing and launching new products or services with minimal waste of time, money, and resources. It was popularized by Eric Ries in his book "The Lean Startup."



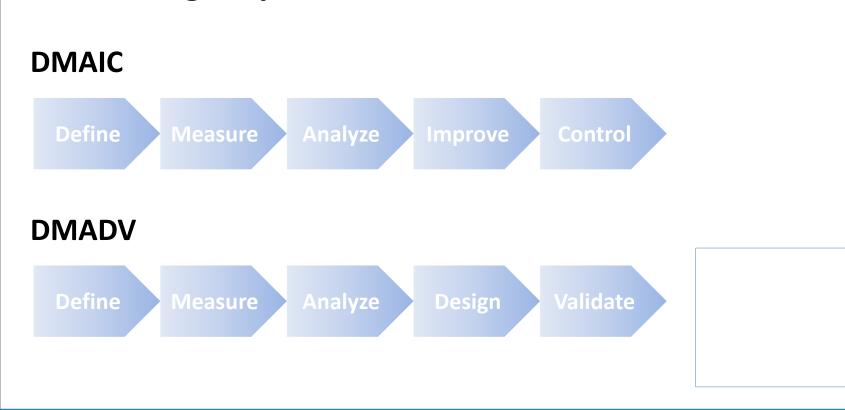




The agile process is a popular methodology used in software development and is increasingly applied in design as well. In design, it methodology that emphasizes flexibility, collaboration, and iterative development in the design process.









The Six Sigma process

DMAIC

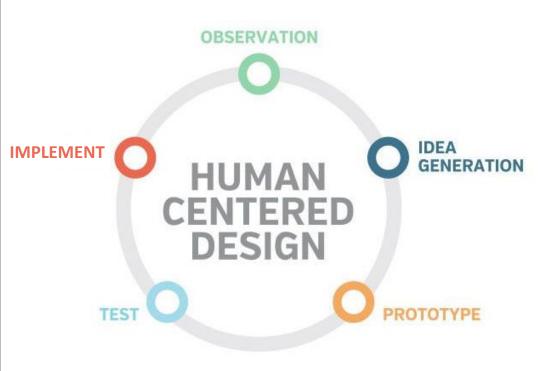
- 1. Initiated from a problem
- 2. Used in the existing process
- 3. Organization/Customer/Pr ocess Focused
- 4. Small team
- 5. Short to medium time frame project
- 6. Incremental improvement
- Many projects available for improvement
- 8. Continuous improvement

DMADV

- 1. Initiated from an innovation solution/Idea
- 2. Used for new processes/products
- 3. Customer Focused
- 4. Big team
- 5. Long-term projects
- 6. Big leap improvement
- Fewer projects available for improvement
- 8. Re-engineering



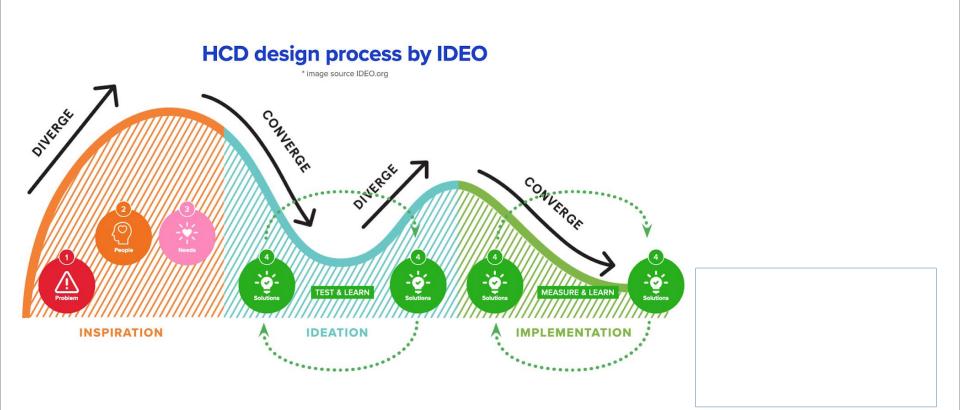
The Human-Centered Design process



Human-Centered Design is a problemsolving approach that emphasizes understanding and empathizing with the end-user. It involves five phases: Observation, Ideation, Prototyping Test and Implement.









The 6 Thinking Hats



Blue Hat - Process

Thinking about thinking. What thinking is needed? Organizing the thinking. Planning for action.

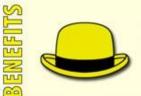


Green Hat - Creativity

Ideas, alternatives, possibilities. Solutions to black hat problems.



White Hat - Facts Information and data. Neutral and objective. What do I know? What do I need to find out? How will I get the information I need?



Yellow Hat - Benefits

Positives, plus points. Why an idea is useful. Logical reasons are given.

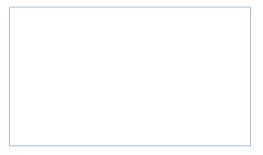


Red Hat - Feelings Intuition, hunches, gut instinct. My feelings right now. Feelings can change. No reasons are given.



Black Hat - Cautions

Difficulties, weaknesses, dangers. Spotting the risks. Logical reasons are given.



Source: https://www.onedaydesignchallenge.net/en/journal/six-thinking-hats-technique



Thank You

