

Design Thinking

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The goal of design "process"

User Insights



Insert Magical Process Here

Great Experience, Successful Product



Source: Whalen



Design thinking is not solely for designers.





IT'S A PROCESS EVEN THE MOST TRADITIONAL THINKERS CAN ADOPT.

Design thinking is not solely for designers.



As of December 2021, the most common occupations requiring <u>design thinking skills</u> were:

- •Marketing managers
- •Executives
- Industrial engineers
- •Graphic designers
- Software developers
- •General and operations managers
- Management analysts
- Personal service managers
- •Architectural and engineering managers
- •Computer and information systems managers

In addition, jobs that require design thinking statistically have higher salaries.



What Drives Design?



It is amazing how often people solve the problem before them without bothering to question it. (Norman p. 217)



Good designers first understand the real issue

Driven by many things



Why do we make products?

Human Centered Design

- Focus on human needs, desires, capabilities
- Ensure that people's needs are met
- Usable and understandable products
- Accomplishes desired tasks
- Experience is positive & enjoyable



The world according to Norman







COMPANIES USING DESIGN THINKING APPROACH

82%

Design thinking is a non-linear, iterative process that teams use to understand users, challenge assumptions, redefine problems and create innovative solutions to prototype and test. It is most useful to tackle ill-defined or unknown problems and involves five phases: Empathize, Define, Ideate, Prototype and Test.



Design thinking is different from other innovation and ideation processes in that it's solution-based and user-centric rather than problem-based.

DESIGN THINKING A FRAMEWORK FOR INNOVATION





The New Double Diamond Model of Design Thinking





Double Diamond

Effective design satisfies

- Shape and form
- Cost and efficiency
- Reliability
- Effectiveness
- Understandability & usability
- Please of appearance
- Joy of Actual Use
- Pride of Ownership







Start with questions.

WHO ARE YOU DESIGNING FOR?

WHAT IS THE DESIGN PROBLEM?

WHAT RESOURCES DO YOU HAVE?





Observation

- Research the people and how they use the system
- Understand interests, true needs, motivations
- Natural environment





IDEATION PHASE



AVOID JUDGMENTS



AIM FOR QUALITY, NOT QUANTITY



ENCOURAGE WILD IDEAS



Prototyping



SHORTEST TIME

Rapid Prototyping

LEAST COST

SIMPLEST MODEL



Testing



2.

Idea Generation

1. Observation

Iteration

- Requirements are determined by watching people in their natural environments
 - People can't always voice their needs
 - Repeated study and testing!
 - Each cycle removes the fog, gain more clarity
 - When does it end? It depends!



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ACD & Tasks vs. Activities

- Design for the Activity the task is the support!
- Focusing on specific tasks is too limiting what do you want



Market research

- Want
- Buy

A very old saw to grind – design vs. marketing



Need vs. want



Why make things hard?

CREATE REQUISITION









Do you love or hate standards?

"Human Interface Guidelines"

Modal Sheets

A custom modal sheet is a full-screen view that slides over your app's current screen. Use this type of sheet when you want to present a custom interface modally. The top-left corner of the modal sheet is reserved for the Close button, which dismisses the interface. The Close button is always white.



Retitle the Close button if doing so makes sense. Apple Watch supplies a default title for the Close button, but you can change it to convey a different meaning. The most common alternate titles for this button are Done and Dismiss.



Don't use "Back" or "<" in the Close button title. You don't want your custom Close button title to mislead users into thinking that the sheet is part of a hierarchical navigation interface.



Don't use the Close button to title the page. If the Close button looks like a page or an app title, or if its title is empty, users won't know how to dismiss the modal sheet.



Avoid displaying a second modal sheet from an existing modal sheet. When users close a modal sheet, they expect to return to the main app interface.

And more...





SAP Fiori for iOS

The iOS platform is one of the most advanced mobile platforms with the best native experience. It is only natural to unify the familiar experience of iOS with the best enterprise user experience of SAP Fiori.





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Role Based	Responsive	Simple	Coherent	Delightful
Designed for you , your needs and how you work	Supports how and where you work at any time	Focuses on what's important	Provides one fluid, intuitive experience	Makes an emotional Connection