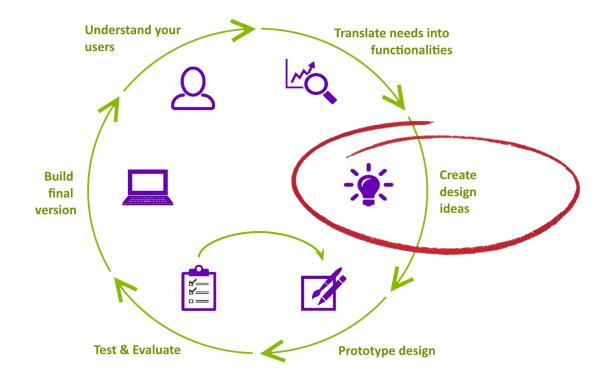
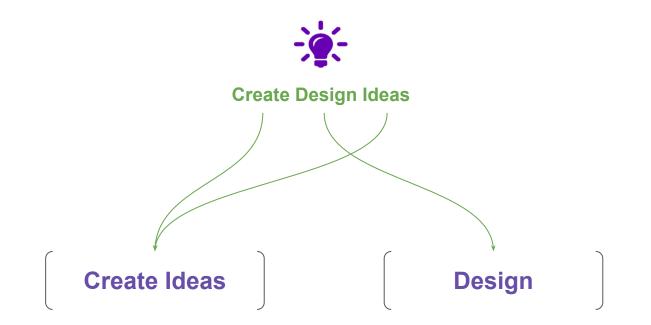
CS449/649: Human-Computer Interaction

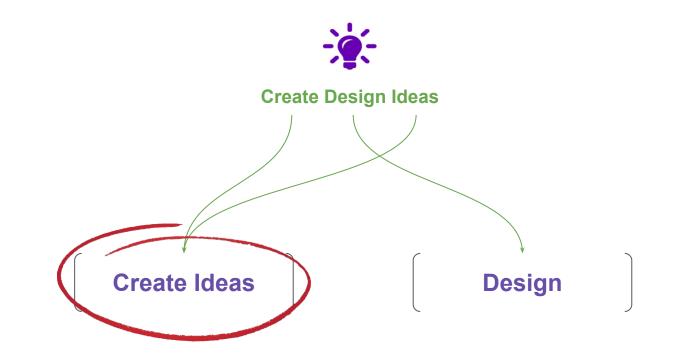
Winter 2018

Lecture VII

Anastasia Kuzminykh









Create Ideas

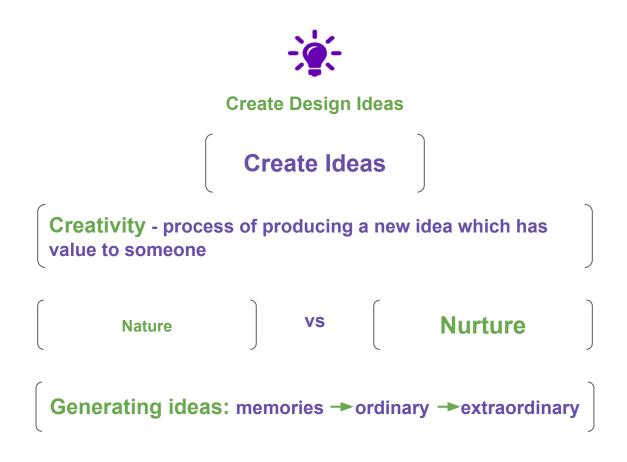
Creativity - process of producing a new idea which has value to someone

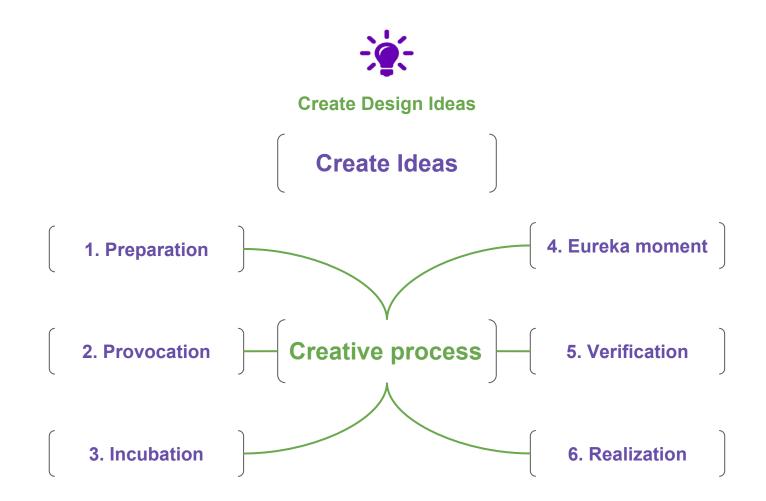


Create Ideas

Creativity - process of producing a new idea which has value to someone









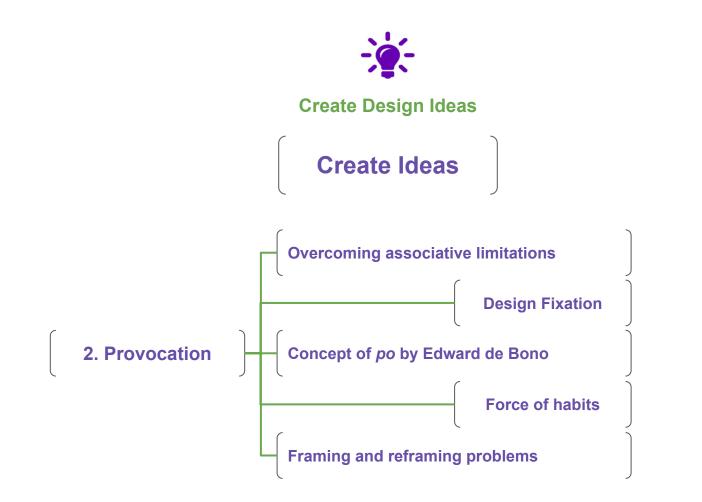
Create Ideas

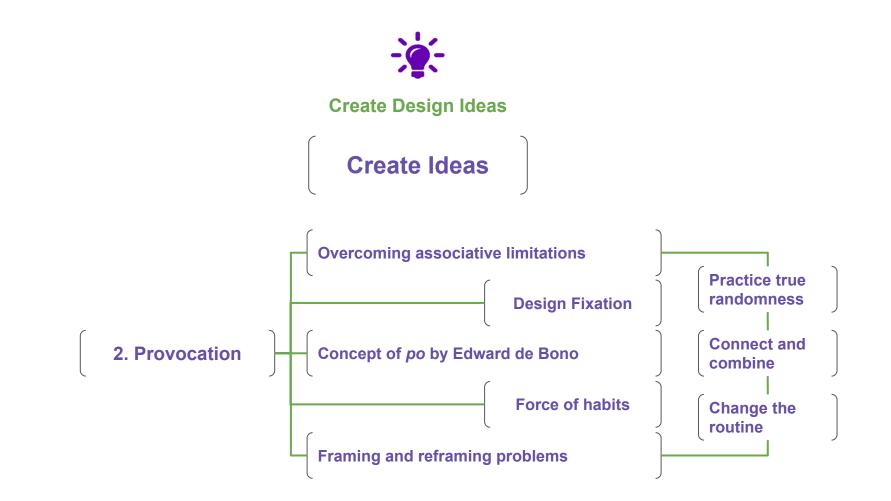
 1. Preparation

 Define the constraints: goals, parameters of the challenge, resources, time

Knowledge and understanding around the challenge: both academic and casual

Challenge all the assumptions









Different aspects of creativity require different brain activity

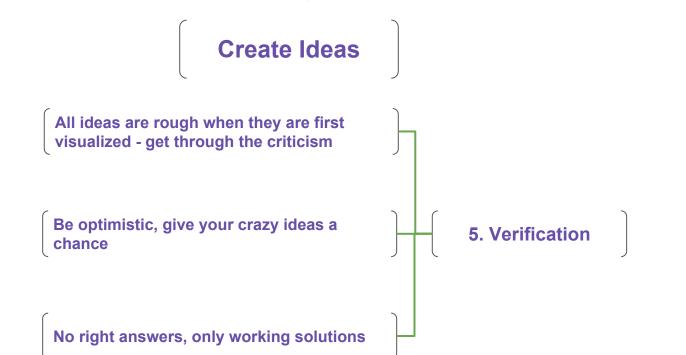
3. Incubation

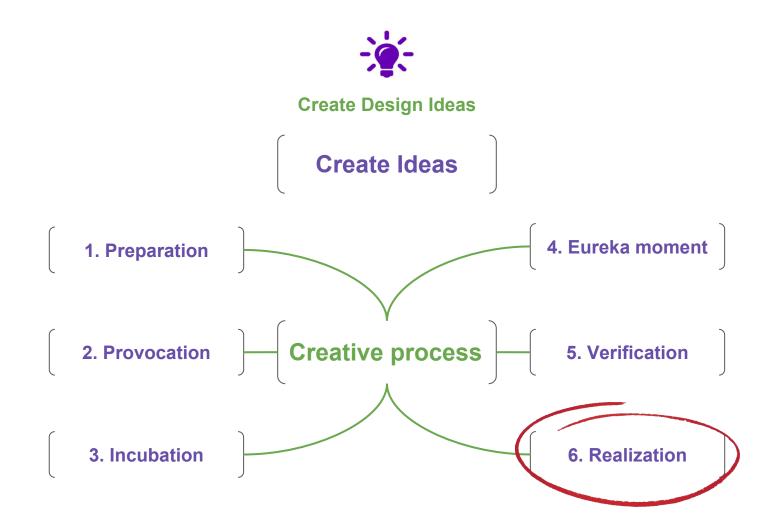
Most ideas are formed subconsciously



Create Ideas



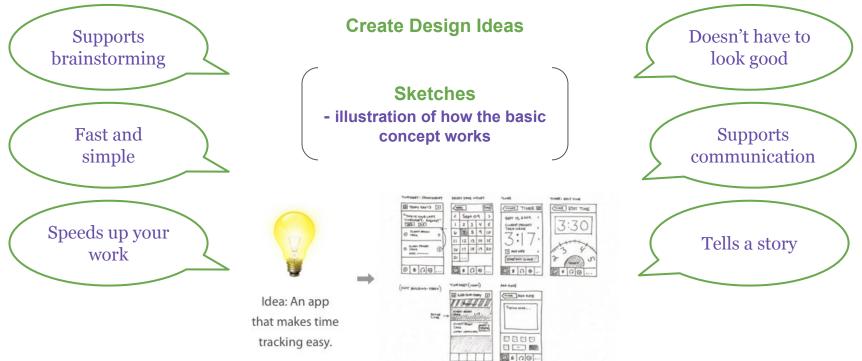








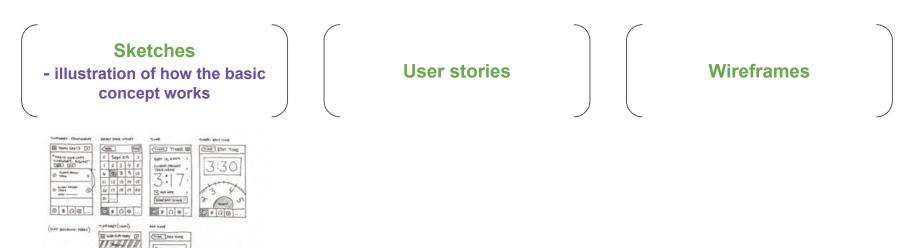




The idea translated into user interface form.

Image: http://uxmovement.com/wireframes/why-its-important-to-sketch-before-you-wireframe/





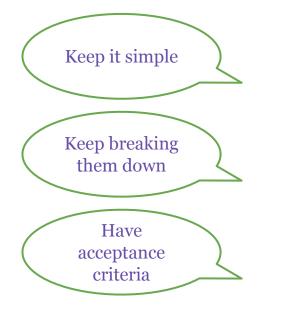
The idea translated into user interface form.

Fills.

Acres ---

Permander.



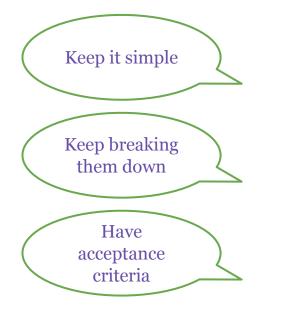


User stories - description of a feature from an end-user perspective

As a user / <persona> , I want / need <action> so that I can <user goal>.







User stories - description of a feature from an end-user perspective

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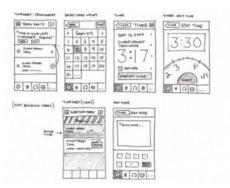
"As a user I want to send an email."

"As a user I need to type in an email address" "As a user I want to type in an email subject" "As a user I want to type in an email text"





Sketches - illustration of how the basic concept works



User stories - description of a feature from an end-user perspective

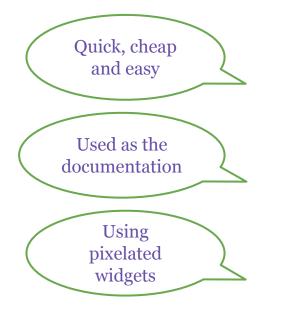
Wireframes

As a user / <persona> , I want / need <action> so that I can <user goal>.

The idea translated into user interface form.

Image: http://uxmovement.com/wireframes/why-its-important-to-sketchbefore-you-wireframe/







Δ

Δ

TT

O Cash Payment

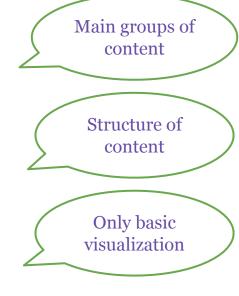


Image: https://www.behance.net/gallery/13421913/Wireframes-Restaurant-App

(1X) Tacos

£5,50 Delete

£5 Burritos £5 Tacos (2x) £0.50 Sauce

Continue Shopping Continue

TOTAL : E1

Order

Delivery

O Credit Card

Payment Method

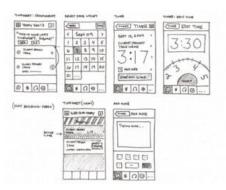
"Select your credit card

Credit Card # Expiration Date

Cancel Finalise Order



Sketches - illustration of how the basic concept works



The idea translated into user interface form.

Image: http://uxmovement.com/wireframes/why-its-important-to-sketchbefore-you-wireframe/ User stories - description of a feature from an end-user perspective

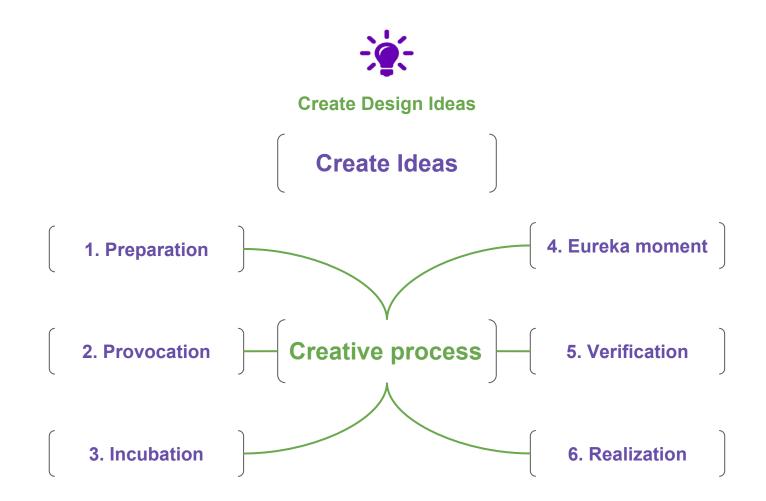
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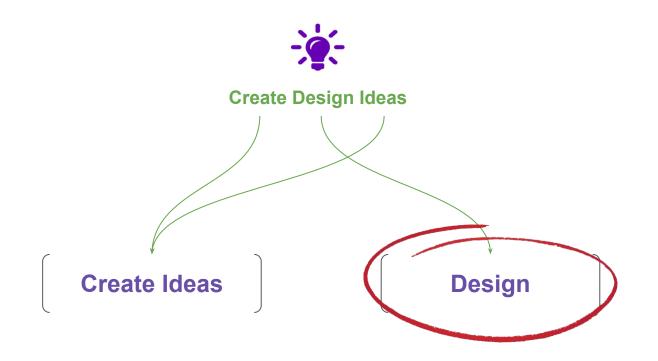






Image: https://www.behance.net/gallery/13421913/Wireframes-Restaurant-App







Design

Interface - a surface/place where two independent systems, bodies or spaces meet / form a common boundary, and communicate with each other



Design

Interface - a surface/place where two independent systems, bodies or spaces meet / form a common boundary, and communicate with each other

Interface - a communication channel

Communication - exchanging of information



Design

Semiotics - the study of signs and symbols

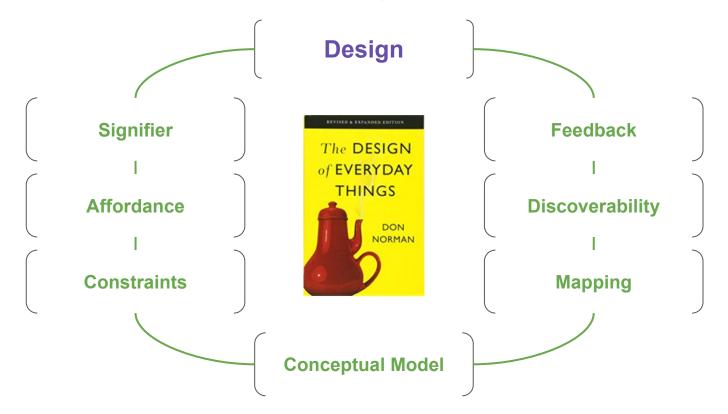
Sign anything that communicates a meaning Representamen (signifier) - the form of the sign

Interpretant what people make of the sign

Object (signified) -

the actual reference of the sign







Design

Signifier - indicators of any type that communicate the action needed so the affordance can take place

Affordance - the possible use for an object when interacting with it



Design

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Constraints - restrictions that limit the possible actions available with an object



Design

Signifier - indicators of any type that communicate the action needed so the affordance can take place

Affordance - the possible use for an object when interacting with it

Constraints - restrictions that limit the possible actions available with an object

Physical - caused by physical features

Cultural - based on what is culturally accepted

Semantic - based on the meaning of the situation

Logical - use reasoning to determine the alternatives



Design

Signifier - indicators of any type that communicate the action needed so the affordance can take place

Affordance - the possible use for an object when interacting with it

Constraints - restrictions that limit the possible actions available with an object

Feedback - conveys effects of user's actions

Discoverability - whether it's possible to figure out how to use an object by interacting with it

Mapping - indication of the relationship between objects

Conceptual Model - user's understanding of how the system works