

Developing a UX mindset on Fortnite

Celia Hodent, PhD.
Game UX Consultant, Independent

@CeliaHodent

Slides available soon: celiahodent.com

MARCH 18-22, 2019 | #GDC19

UX Mindset

UX practices

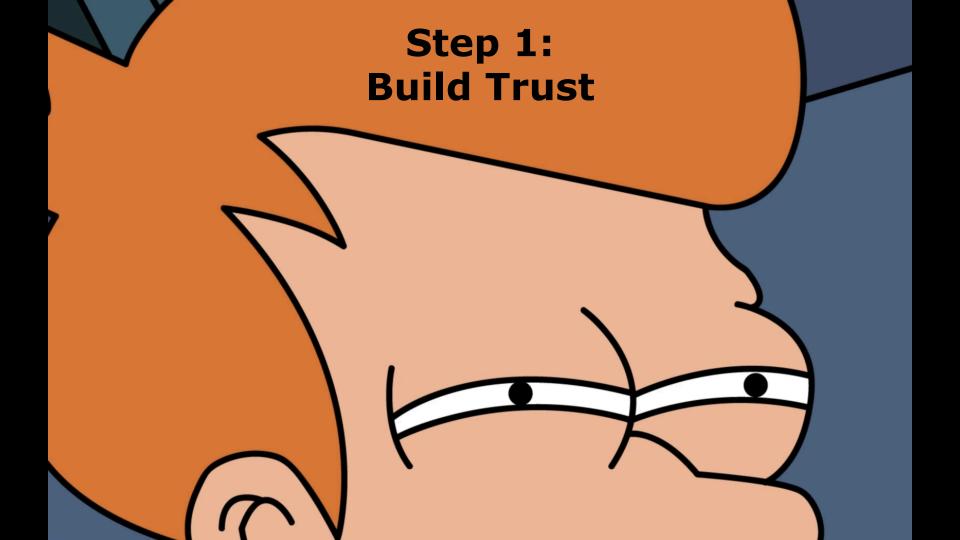
- Psychology / HCI
- Guidelines / Methods
- User research

Define the
experience
(designers,
engineers, artists)

Experience

Understand your audience (marketing, consumer insights)

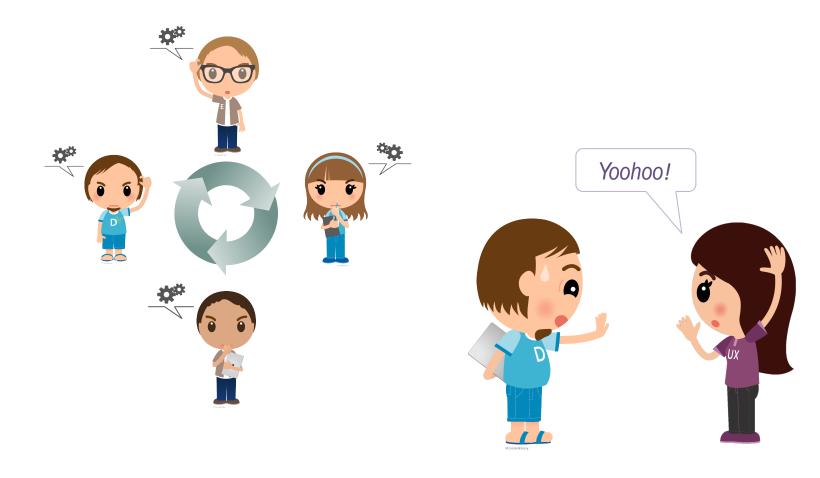
User



Misconception about UX #1: UX will distort design intentions



Misconception about UX #2: Let's "UX it" later



Tailored relationship



Concept mock for Fortnite's metagame (late 2013)



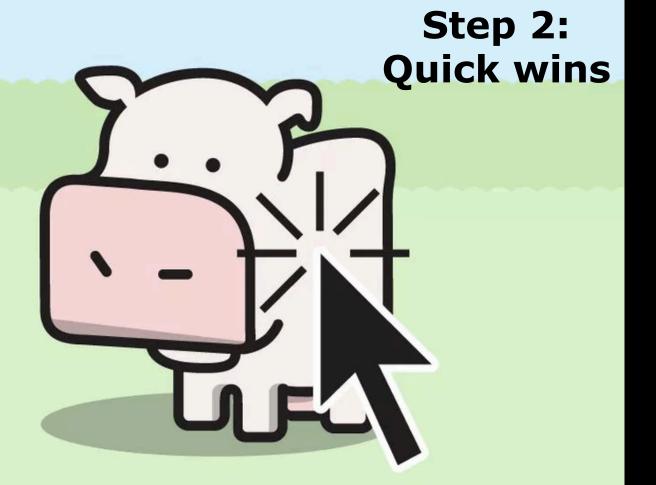
Fortnite alpha – Homebase (march 2016)

Helping the core team explain/test their vision before implementation.

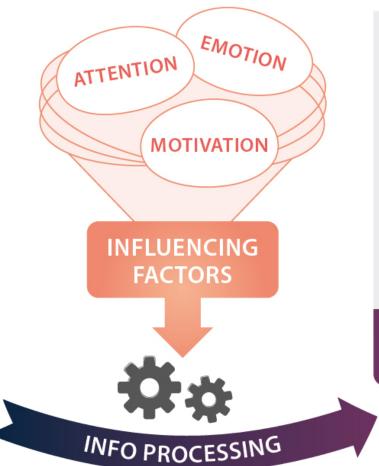
Tailored relationship



Example of a shooting range gym level in *Fortnite* for UX testing (2014).



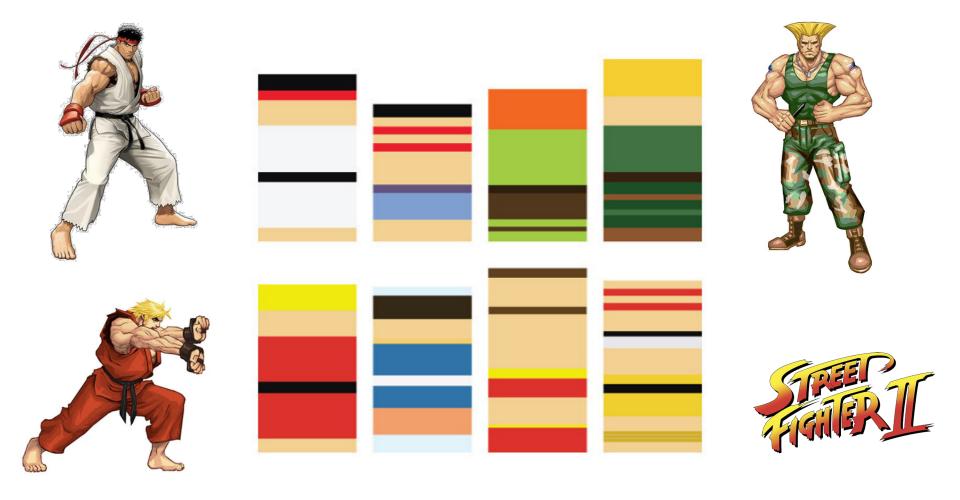






MEMORY

(synaptic modification)

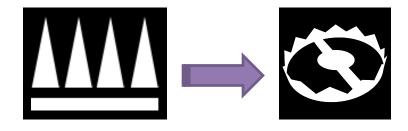


Street Fighter II characters as minimalized by artist Ashley Browning

Our PERCEPTION is subjective

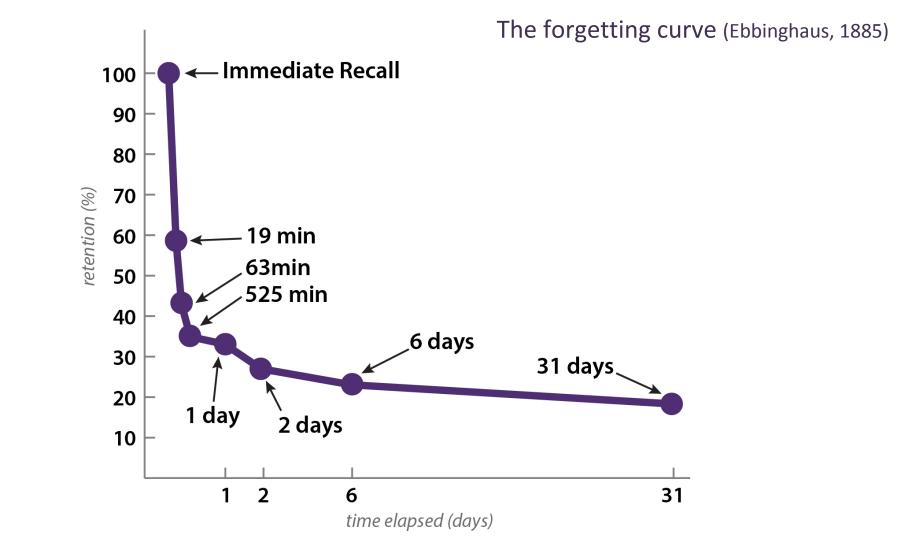
Quick win: Form Follows Function





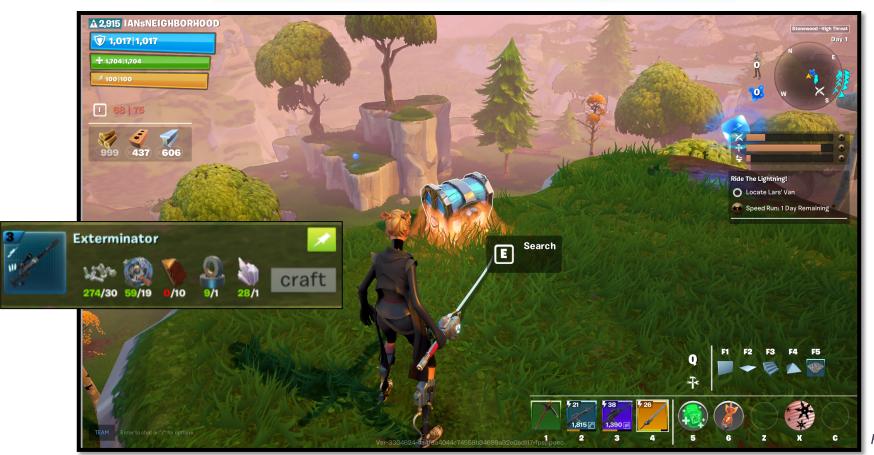
Fortnite 2013





Our MEMORY is fallible

Quick win: Reduce memory load



Pick a card:













I bet I can guess which card you picked and make it disappear!











I've changed all the cards ©

→ "change blindness"

Our ATTENTION is scarce

Quick win: Avoid multitasking



Fortnite (Sept 2014)

We can hardly pay attention to tutorial texts when busy killing zombies ...



Cognitive Load Theory



Try your best to... **Weather the Storm** PREPARE Gather resources, craft, and fortify your core. **CONTROL THE WEATHER** Deposit BluGlo in the weather tower to make storms more intense for the other team! **DEFEND OR DESTROY** rotect your core, as husks will remove its shield. EXPERIMENTAL

Fortnite: PvP prototype for ux testing

PERCEPTION **ATTENTION MEMORY SUBJECTIVE SCARCE FALLIBLE**



GameUX = Usability + Engage-ability



- Signs & Feedback
- Clarity
- Form Follows Function
- Consistency
- Minimum Workload
- Error Prevention / Recovery
- Flexibility

USABILITY

Flexibility / Accessibility

gameaccessibilityguidelines.com



BASIC

Easy to implement, wide reaching and apply to almost all game mechanics



INTERMEDIATE

Require some planning and effort but still just good general game design



ADVANCED

Complex adaptations for profound impairments and specific niche mechanics



FULL LIST

All three sets of guidelines displayed together as a single categorised list

GameUX = Usability + Engage-ability

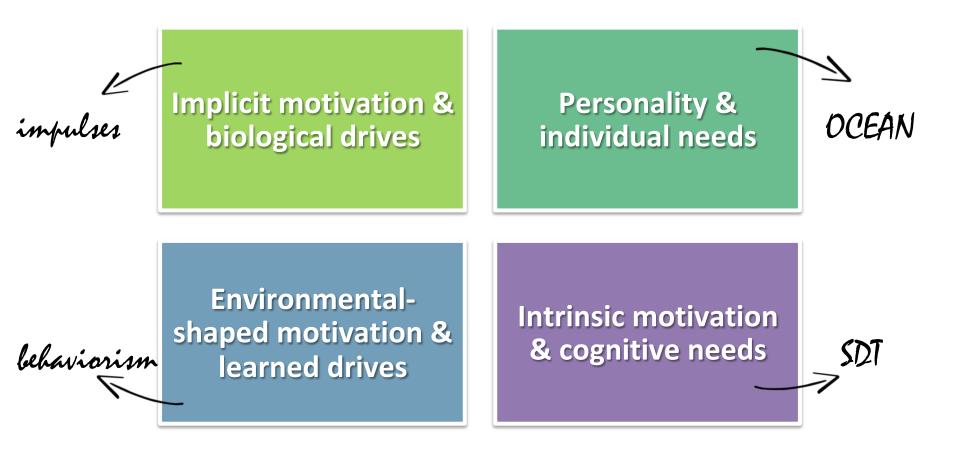


- Motivation
- competence, autonomy, relatedness meaning, rewards, implicit motives
- Emotion
- game feel, presence, surprises
- □ Game flow

difficulty curve, pacing, learning curve

ENGAGE-ABILITY

Human Motivation: Mapping attempt (for game dev)



Motivation: Tease and show value ("why")



Fortnite (Closed Alpha)

Measuring Engage-ability: Focus on WHY

Fortnite examples: Check if players got the PURPOSE by asking OBJECTIVE questions (less polluted by cognitive biases)

I completely disagree I somewhat disagree I'm not sure I somewhat agree I completely agree

- What should you harvest to get metal efficiently (as much as possible as fast as possible)
- Who are you in the game?
- What makes a good fort?
- How do you increase your power in Fortnite?
- What are you most looking forward to obtaining?
- ..

And with analytics later on.

USER EXPERIENCE

- Signs & Feedback
- Clarity
- Form Follows Function
- Consistency
- Minimum Workload
- Error Prevention / Recovery
- Flexibility

USABILITY

■ Motivation

competence, autonomy, relatedness meaning, rewards, implicit motives

Emotion

game feel, presence, surprises

☐ Game flow

difficulty curve, pacing, learning curve

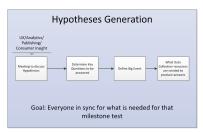
ENGAGE-ABILITY



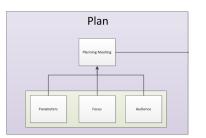
Fortnite – UX pipeline

Hypotheses

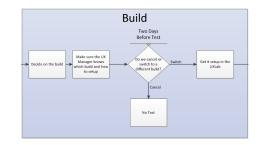
Milestone Start



Plan

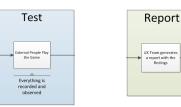


Build

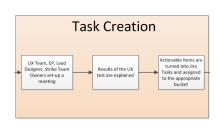


Test

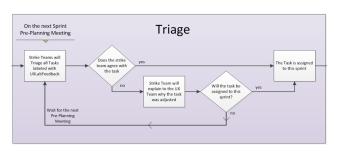
Report



Task Creation



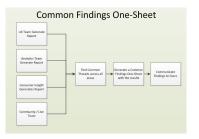
Triage



Verification



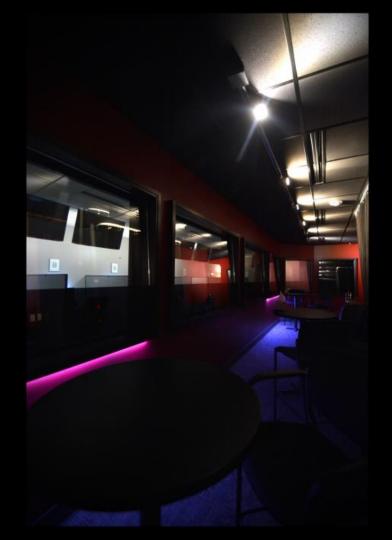
One-Sheet



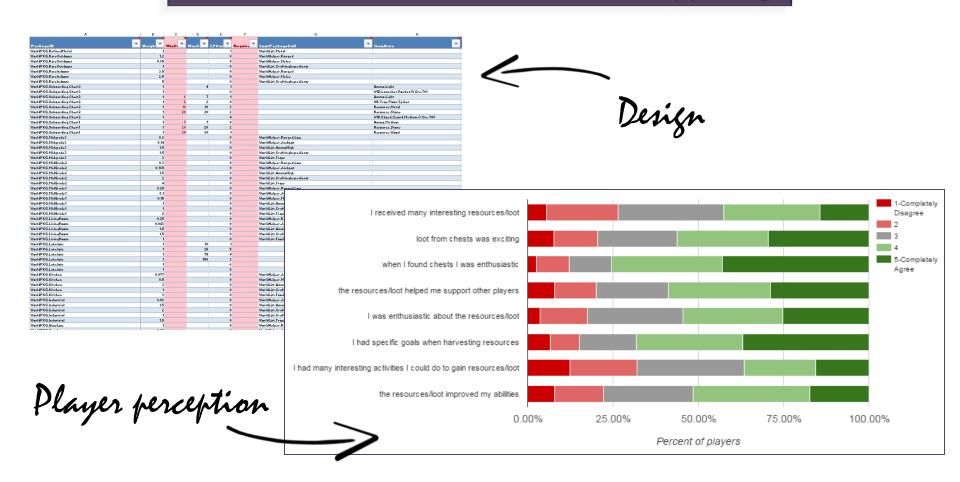








You found a weakness: find WHY it's happening



Find out why: feeling "grindy"?



Fortnite (2014 dev build)



Fortnite (2015 dev build)

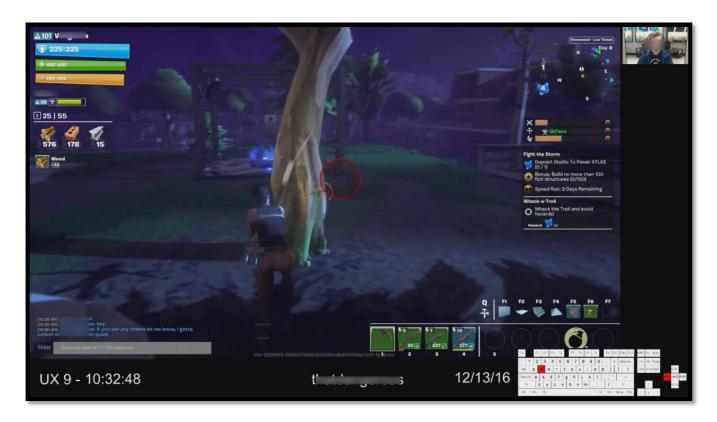
Find out why: mastering harvesting (e.g. weak points)



"Weakpoint vision" is now unlocked after players have experienced harvesting without it.

→ Now it's a reward that has a meaning.

Weak points!



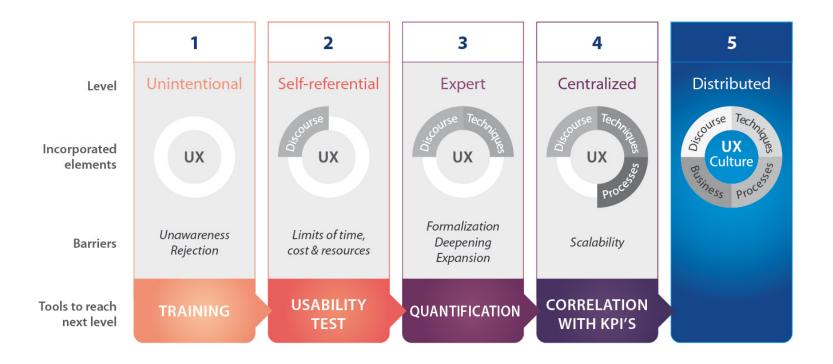
Fortnite (Closed Alpha)

Build Trust Quick Wins

Common Language

Process

KEIKENDO MATURITY MODEL



Game UX roles to consider

Prototype

UX Designers

Information Architecture, Interaction Design, Visual Design

ightarrow at least one per dev team, and one can be on the UX team to offer support across the studio

UX Researchers

Evaluate and test using the scientific method

→ At least 1-2 on the UX team (UR lab) and if possible one embedded on the dev team

UX Data Analysts

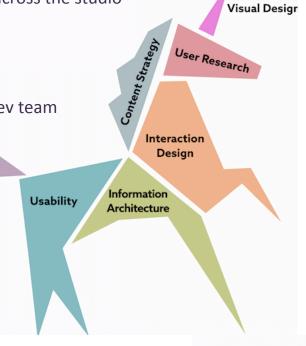
Data analysis

→ At least on the UX team, if possible embed one on each dev team and one on the publishing team

UX Strategists (Director of UX, and... VP?)

Manage, coordinate, advocate

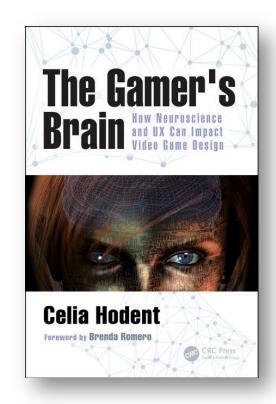
→ At least one at the studio level, if possible one on each dev team (at the same level as creative director and art director)



@ Rainbowlicious D

UX Strategy











Blog/Resources: celiahodent.com

Game UX Summit

→ Check videos on my YouTube channel (youtube.com/c/CeliaHodent)