



LEARNING TOPICS FOR TODAY

- Identify core UX (user experience) design concepts.
- Critique game interfaces based on these concepts.
- Understand the importance of **users** and **context** in design.
- Understand the basic process of user centered design.
- Match **design** to the needs of the **users**.

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THANK YOU TO THE CONTENT CONTRIBUTORS









Amelia W. Cole

Izabelle Janzen

Hanieh Shakeri

Paul Bucci

Karon MacLean



UBC	a place of mind FACULTY OF SCIENCE	Department of Computer Science
	Who am I - Izabelle Janzen	
•	 PhD student in HCI and UX Research VR Interaction, Software Personalization 	
•	 TA experience: CPSC 314 (Graphics) CPSC 344 (Intro to HCI) CPSC 444 (Advanced Methods in HCI) 	
•	 And yes, I also play a lot of games Warcraft, Warframe, MTG etc. 	





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Video source: https://youtu.be/K-NBcP0Y

KEY TAKEAWAY



- Revolutionized games with a more usercentered approach (not an engineering approach).
- Puts what the player wants and would find enjoyable first.
- Believes good design is often invisible (e.g., how to play is subtly implied).

DESIGN CONCEPTS

Design concepts are basic ideas that help us understand, describe, critique and eventually design what's happening in a user interface.

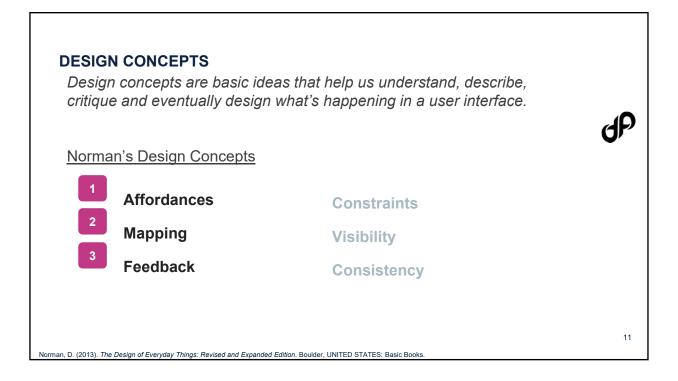
Norman's Design Concepts

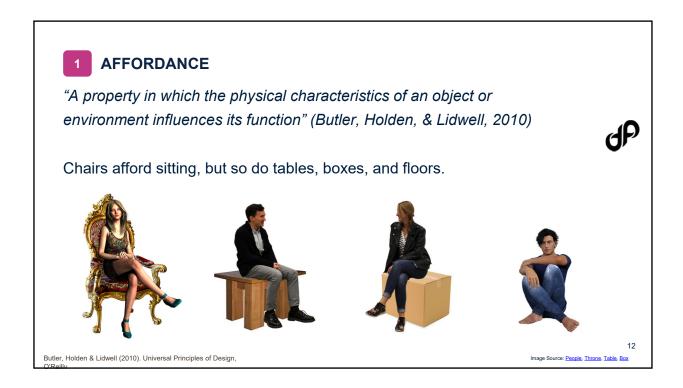
Affordances Mapping

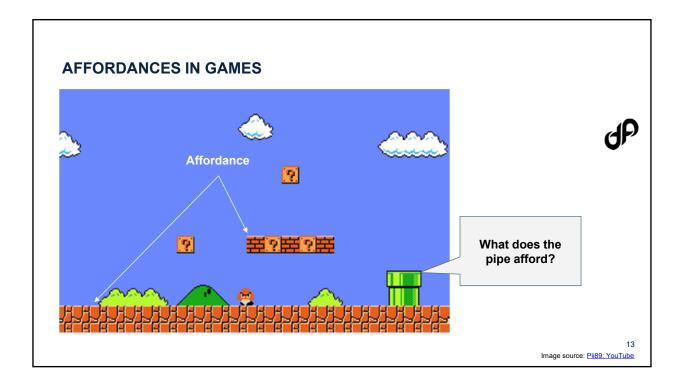
Feedback

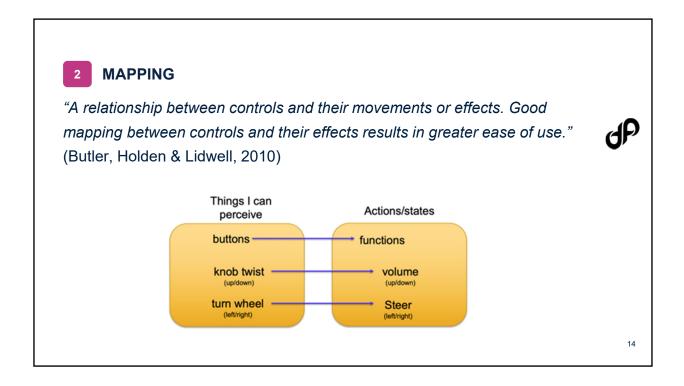
Constraints Visibility Consistency

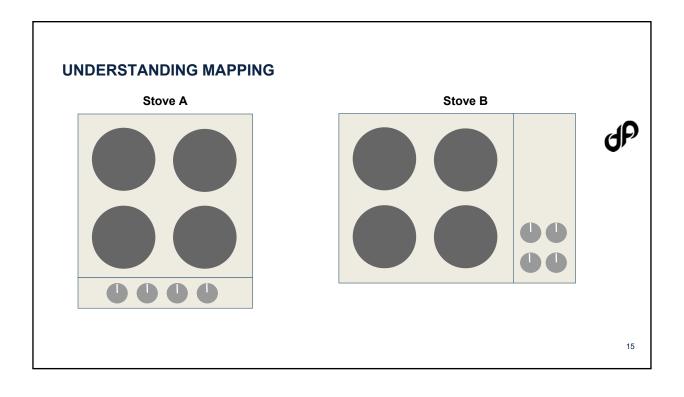
Norman, D. (2013). The Design of Everyday Things: Revised and Expanded Edition. Boulder, UNITED STATES: Basic Books



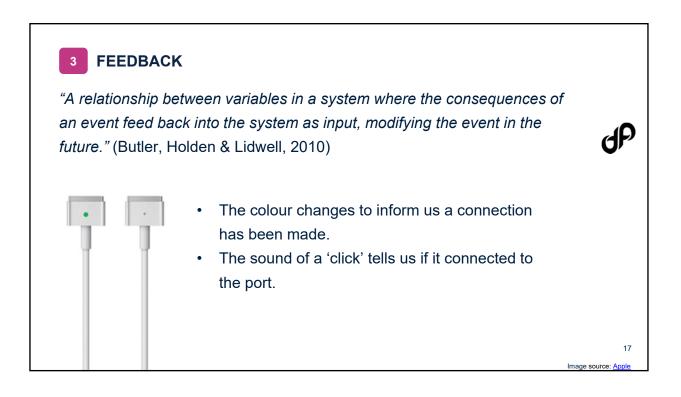


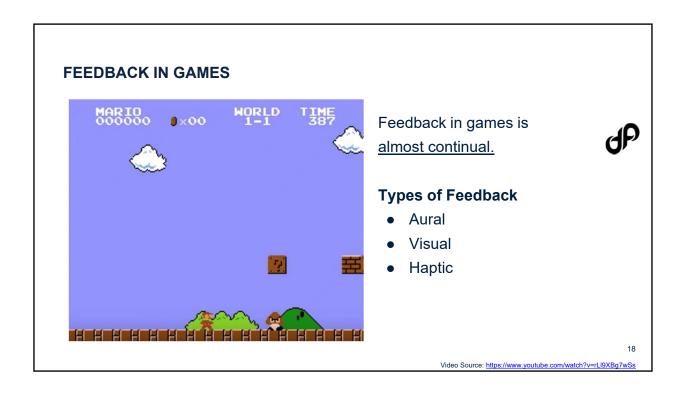


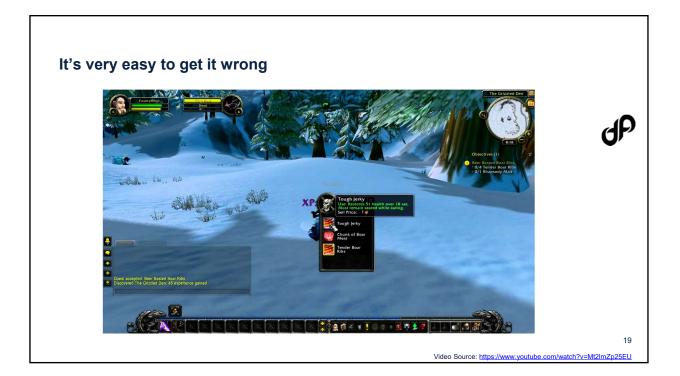


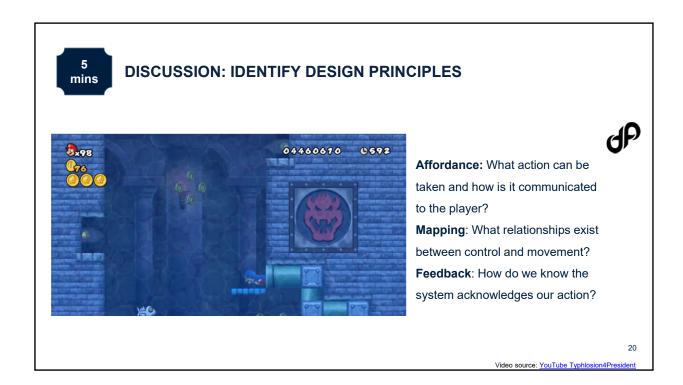


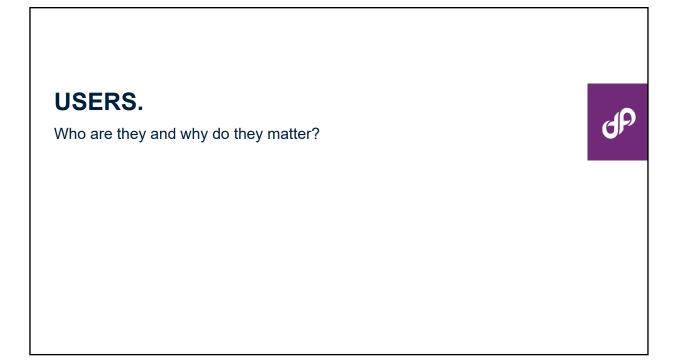














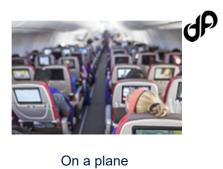
WHERE ARE THEY PLAYING IT?



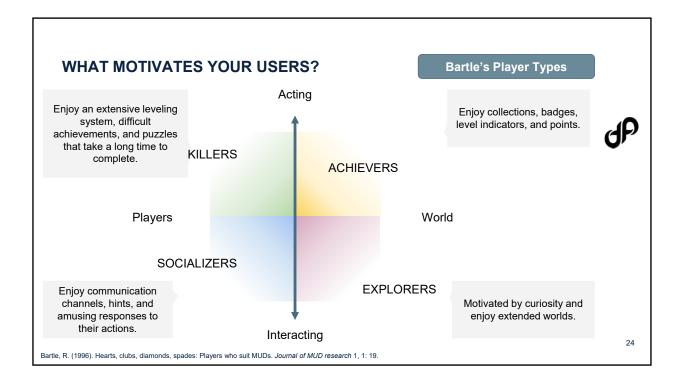
Commute



At home



23 Image source<u>: Commute, At home, Plane</u>

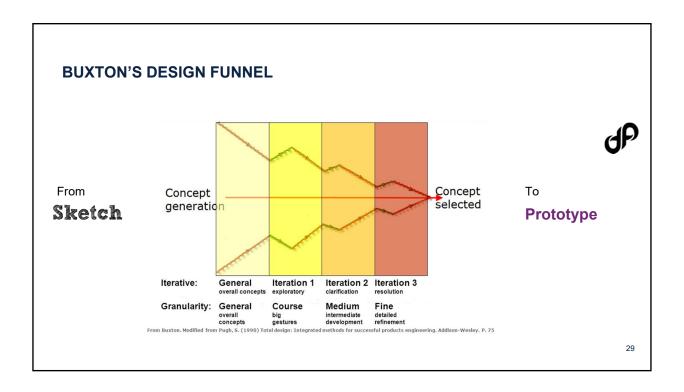


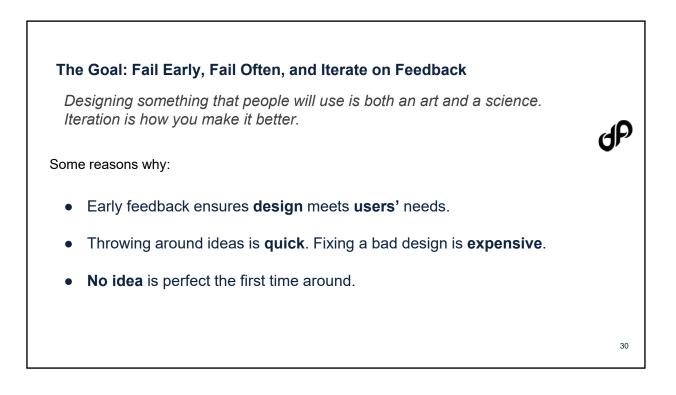


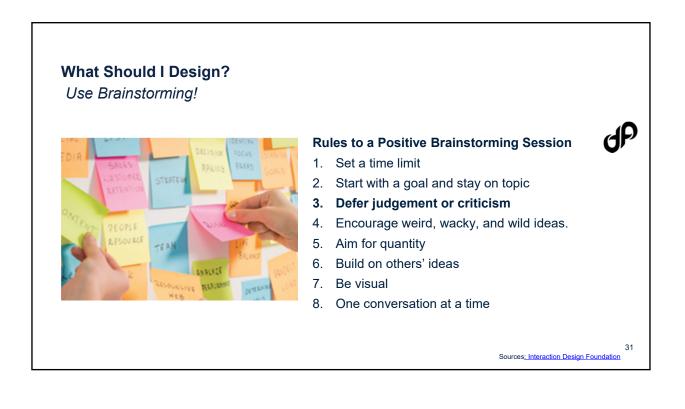


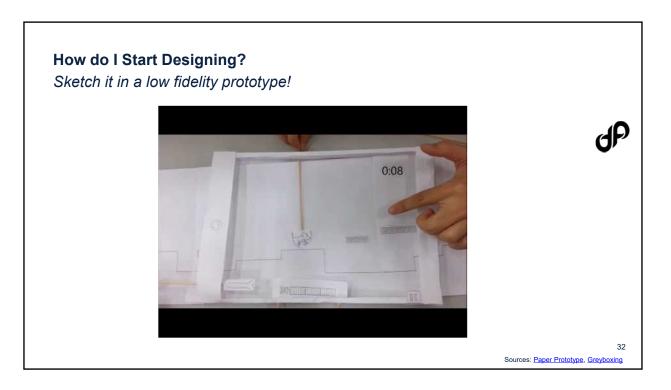


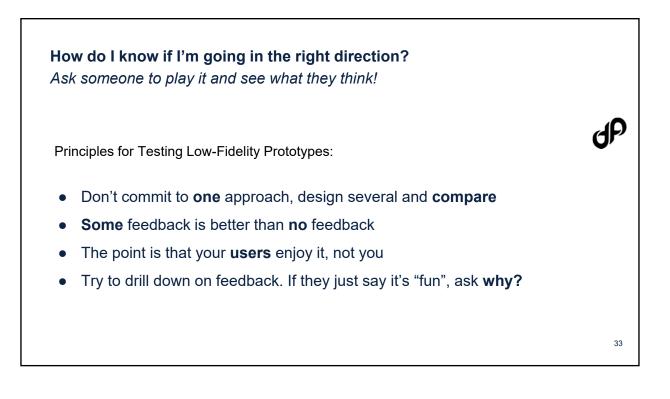


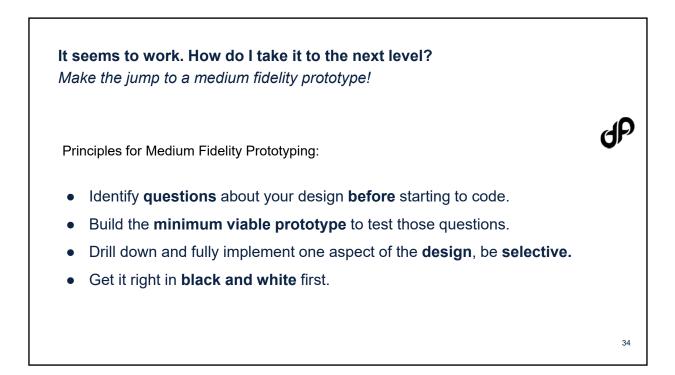




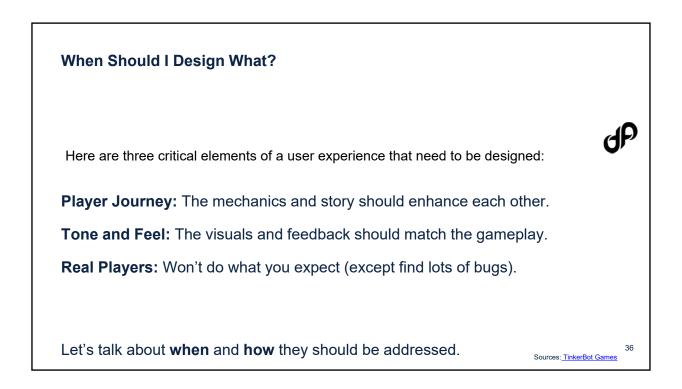


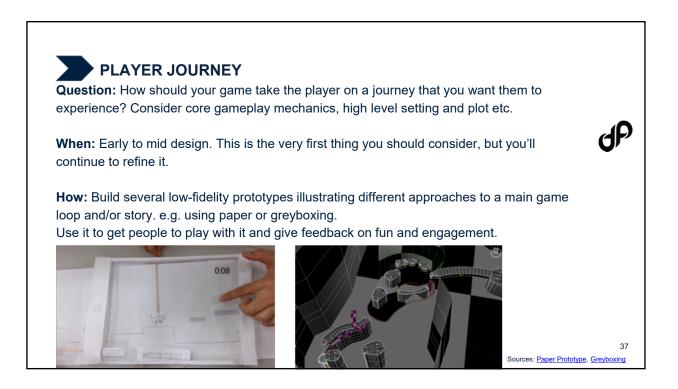


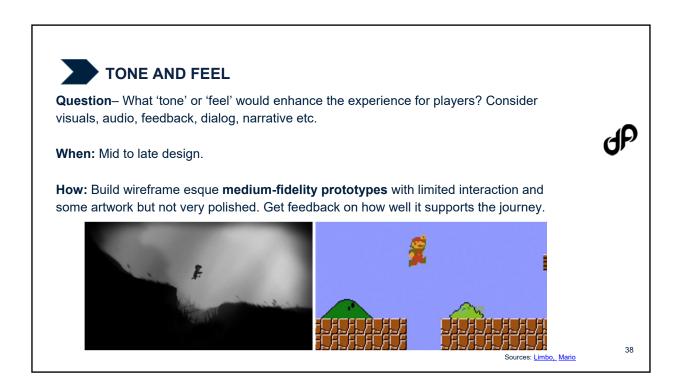


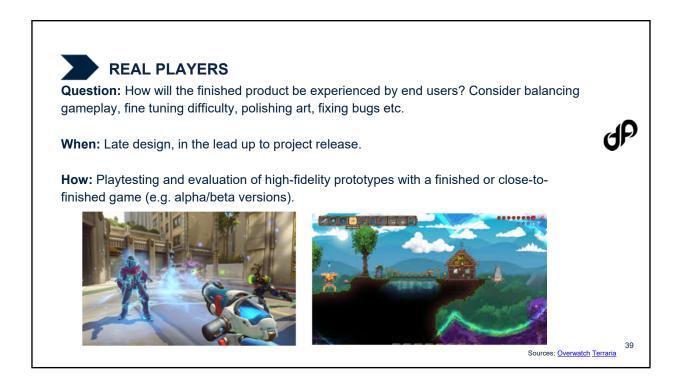


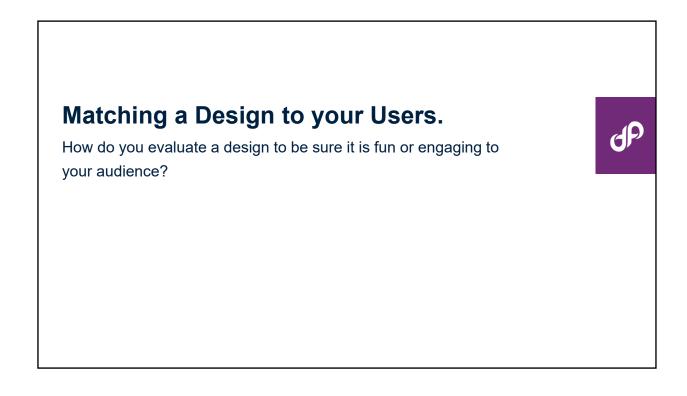


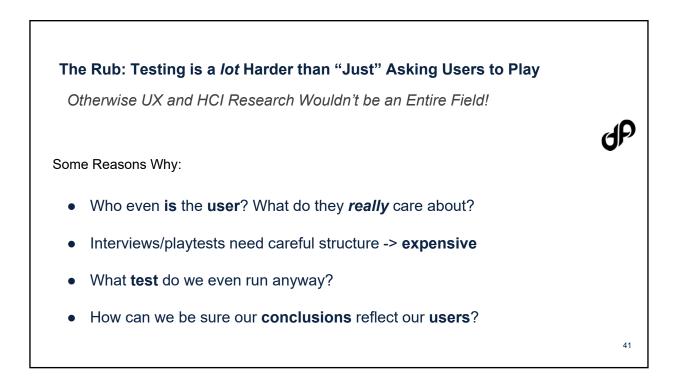




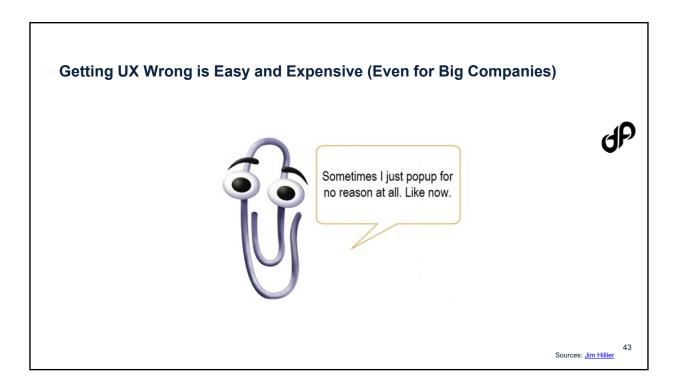


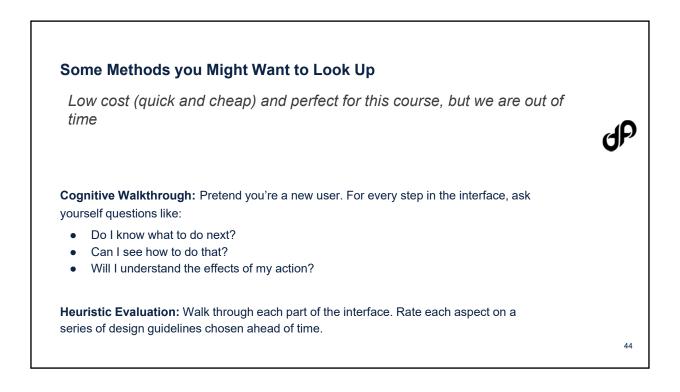












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WHAT YOU LEARNED TODAY

- Identified a few core UX (user experience) design concepts.
- Critiqued game interfaces based on these concepts.
- Understood the influence of users and context on design.
- Understood the user centered design process.
- Started to Match your design to the **needs** of your **users**.

WANT TO KNOW MORE ABOUT UX?

CPSC 344

Introduction to Human Computer Interaction Methods

Basic tools and techniques, teaching a systematic approach to interface design, task analysis, analytics and empirical evaluation methods.

CPSC 444

Advanced Methods for Human Computer Interaction

Design and evaluation methodologies and theories; formal models of the user including visual, motor, and information processing; advanced evaluation methods including laboratory experiments and field studies; HCI research frontiers.

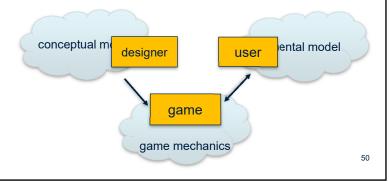








mental model: what the USER thinks the system works
conceptual model: how DESIGNER wants to portray system to user
task examples: design-independent descriptions of tasks that
representative users will want to perform.



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COGNITIVE WALKTHROUGH An expert evaluator (you!) evaluates the design in the context of your tasks. Does the interface design communicate the conceptual model? How well P does it support forming a good mental model? Steps: 1. break task down into steps of user actions 2. carry out each step on the existing interface and ask: Q1: will the user know what to do? Q2: will the user see how to do the action? Q3: will the user correctly understand the system response? 3. if you locate a problem, mark it & pretend it has been repaired; then go on to next step. 51

HEURISTIC EVALUATION

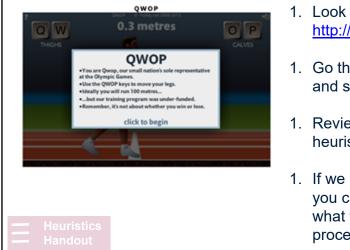
A type of user interface (UI) or usability inspection where an individual, or a team of individuals, evaluates a specification, prototype, or product against a brief list of succinct usability or user experience (UX) principles or areas of concern.

usability or user experience (UX) principles or areas of concern.			
Gameplay	Entertainment	Game Mechanics	
Enduring Play	Emotional Connection	Documentation or Tutorial	
Challenge, Strategy, & Pace	Coolness & Entertainment	Status & Score	
Consistency in Game-world	Humour	Feedback	
Game Goals	Immersion	Terminology	
Variety of Players & Game Styles		Burden on Player	
Players		Screen Layout	
		Navigation	
		Error Prevention	
Source: Game Heuristics		Game Story Immersion	

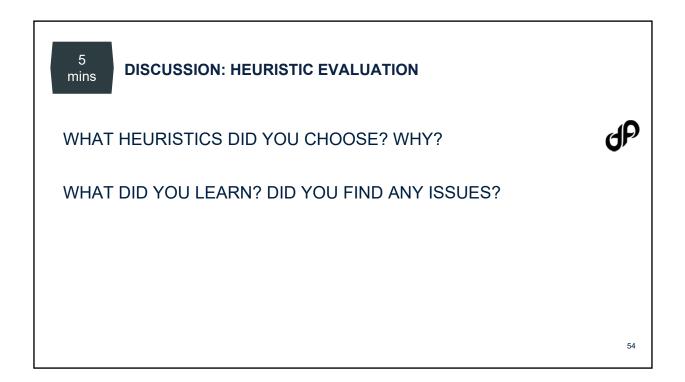
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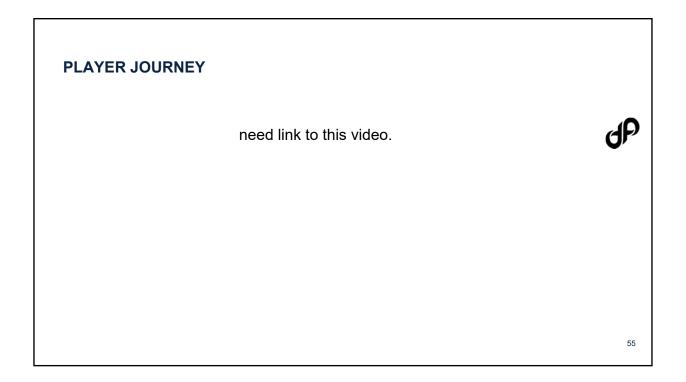
10 mins

ACTIVITY: HEURISTIC EVALUATION



- 1. Look at this simple online game. http://www.foddy.net/Athletics.html
- 1. Go through the handout provided and select a relevant category.
- 1. Review the game using these heuristics.
- If we have time, we'll discuss why you chose those heuristics and what you discovered during the process.







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Image Source: Noun Pro

SIGNIFIERS

"Any mark or sound, any perceivable indicator that communicates appropriate behavior to a person.... Signifiers are signs, perceptible signals of what can be done." (Norman, 2013)



A button on a keyboard affords pressing, but the letter (signifier) is what communicates to the user what can be done.

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