

APPROACHABILITY IN VIDEO GAMES

How to best tutorialize non-gamers

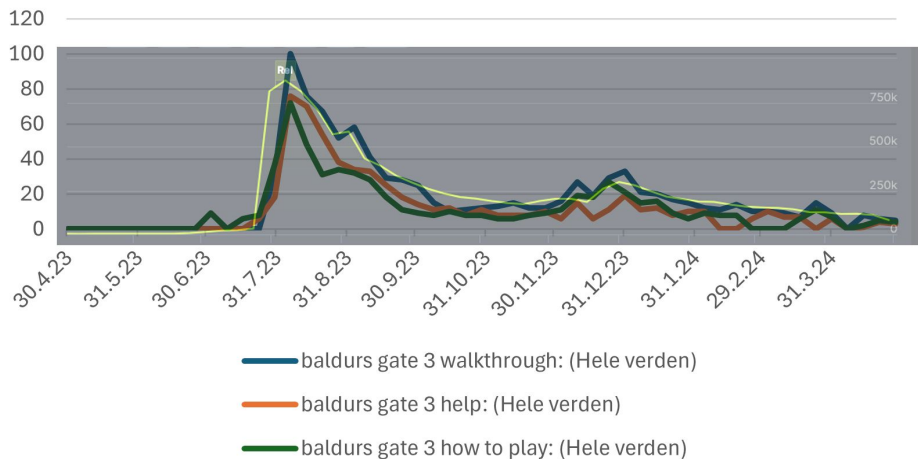
BY MARTE VIK HÅVÅG & SUNNIVA JOHNSEN-BJØRHUSDAL

Research problem & Research question

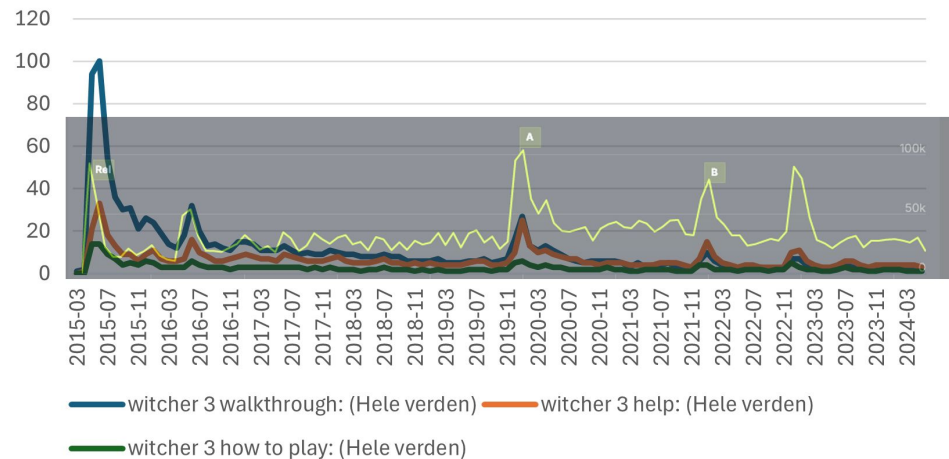
Casual games on mobile are way more accessible than PC games.

We want to see how to best use tutorials to rectify this.

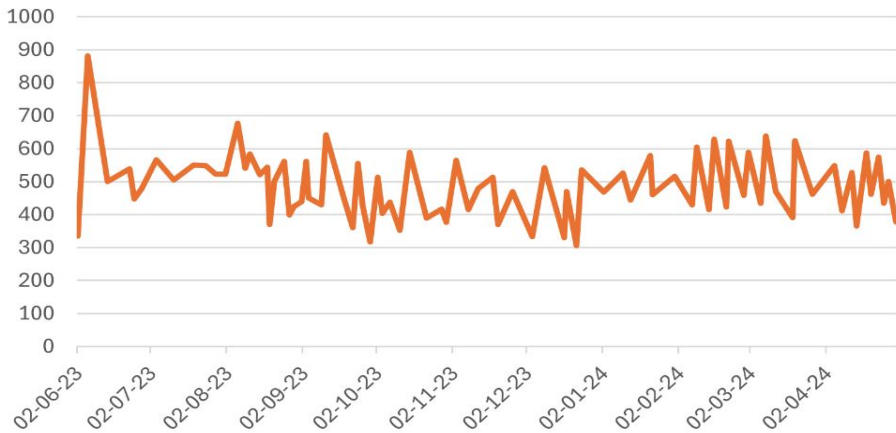
Google searches



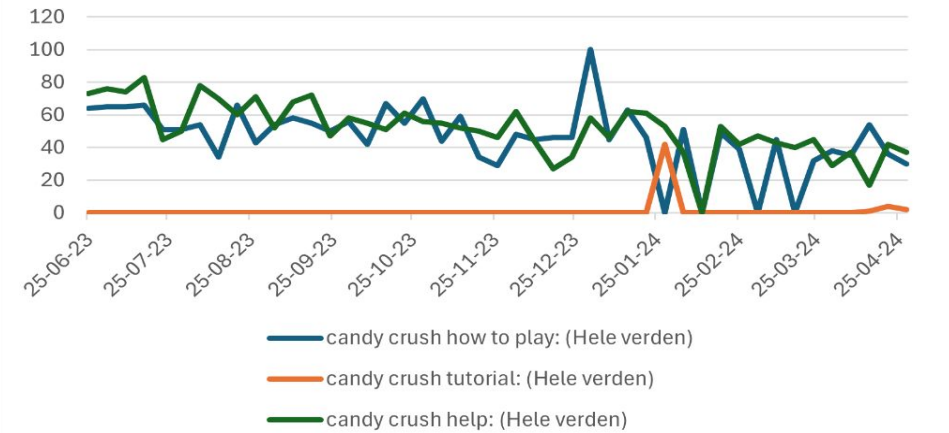
Google searches



Daily Downloads



Google searches



Related works

Co-experience: User Experience as interaction
(Battarbee & Koskinen, 2005)

*Human Experience and product usability:
Principles to assist the design of user-product
interactions.* (Chamorro-Koc, 2009)

*Master of the Game: Assessing Approachability
in Future Game Design* (H. Desurvire, C. Wiberg,
2008)

*Improving games with user testing: Getting
better data earlier* (Federoff, 2003)

*The impact of tutorials on games of varying
complexity* (Andersen et al, 2012)

*An Approach to Assess the Impact of Tutorials
in Video Games* (Benvenuti et al., 2023)

Why is our research
needed?

There are blank spots.

Concepts

Approachability

Usability

Accessibility

Project

Purpose

Key findings

Week	Dates	Capstone
1	15 Jan - 21 Jan	Introduction
2	22 Jan - 28 Jan	
3	29 Jan - 4 Feb	
4	5 Feb - 11 Feb	
5	12 Feb - 18 Feb	Related work
6	19 Feb - 25 Feb	
7	26 Feb - 3 March	
8	4 March - 10 March	Description of project
9	11 March - 17 March	
10	18 March - 24 March	
11	25 March - 31 March	Project evaluation
12	1 April - 7 April	
13	8 April - 14 April	
14	15 April - 21 April	Conclusions
15	22 April - 28 April	
16	29 April - 5 May	
17	6 May - 12 May	
18	13 May - 19 May	First draft due the 15th
19	20 May - 26 May	Project presentation due 22nd
20	27 May - 2 June	
21	3 June - 9 June	Final submission due 7th

Concepts

Watsonian, Doylist and Non-explicit tutorials



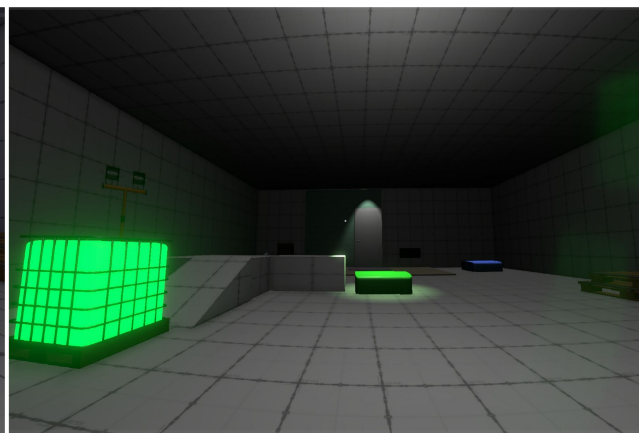
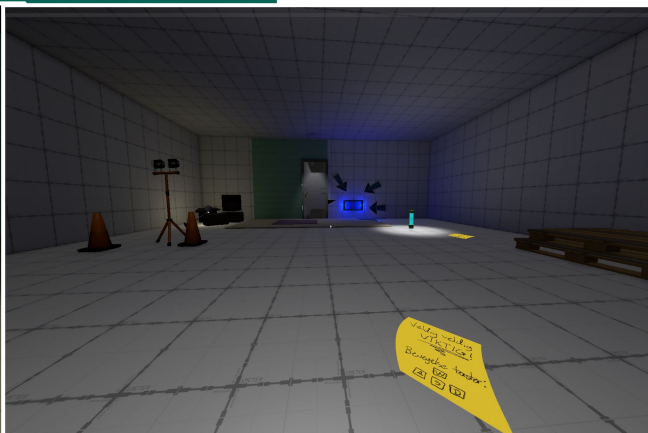
The artifact

3 tutorials

Watsonian

Doylist

Non-explicit



Process

Selection process

Recording

Post-play interview

Results

part 1

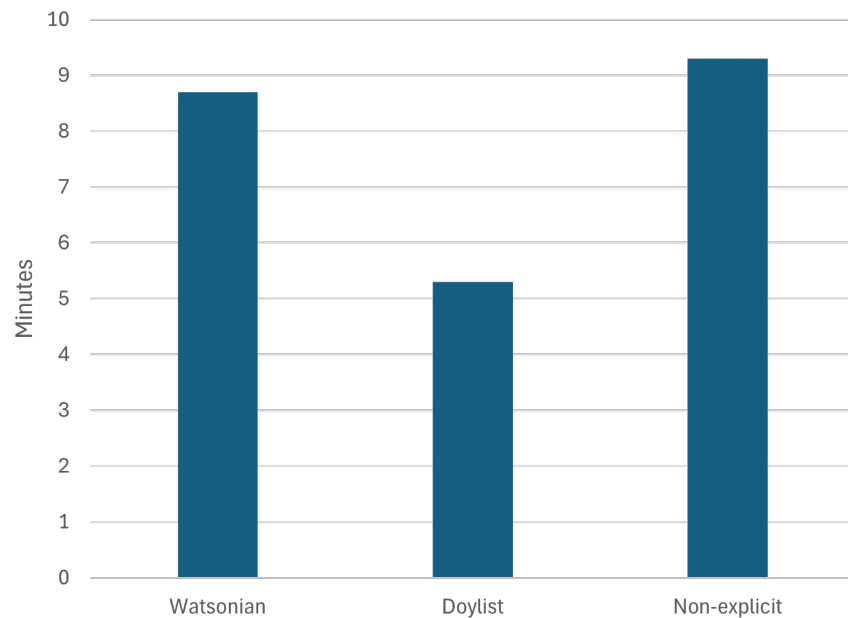
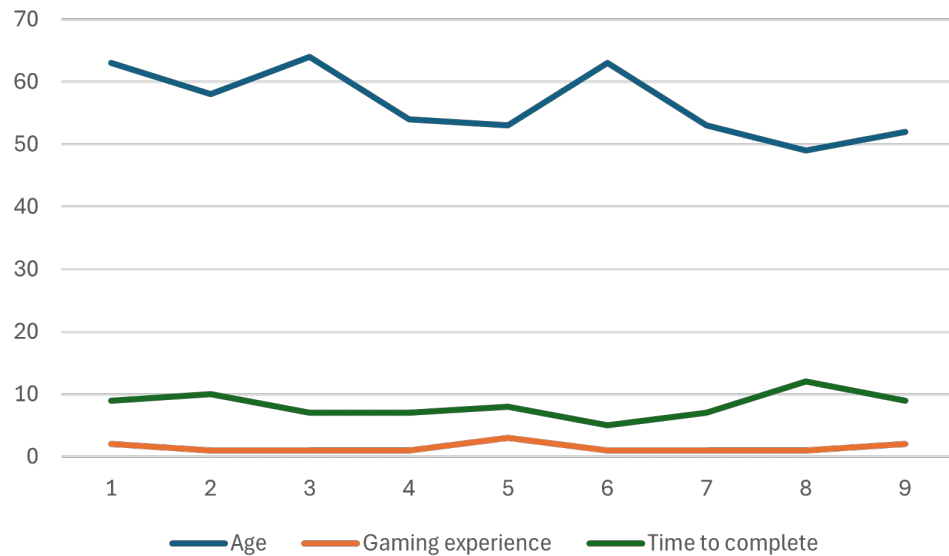


Limitations

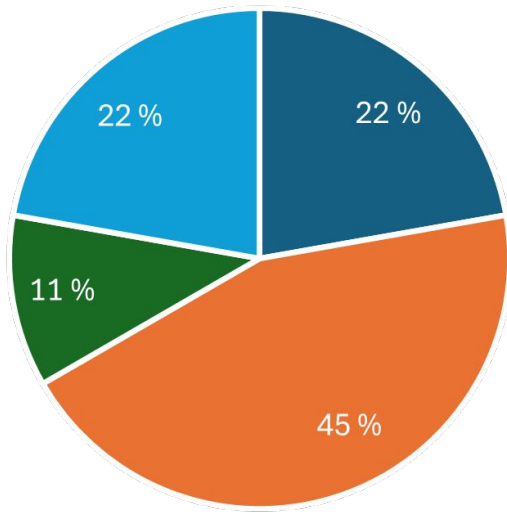
Age of participants

Availability of participants

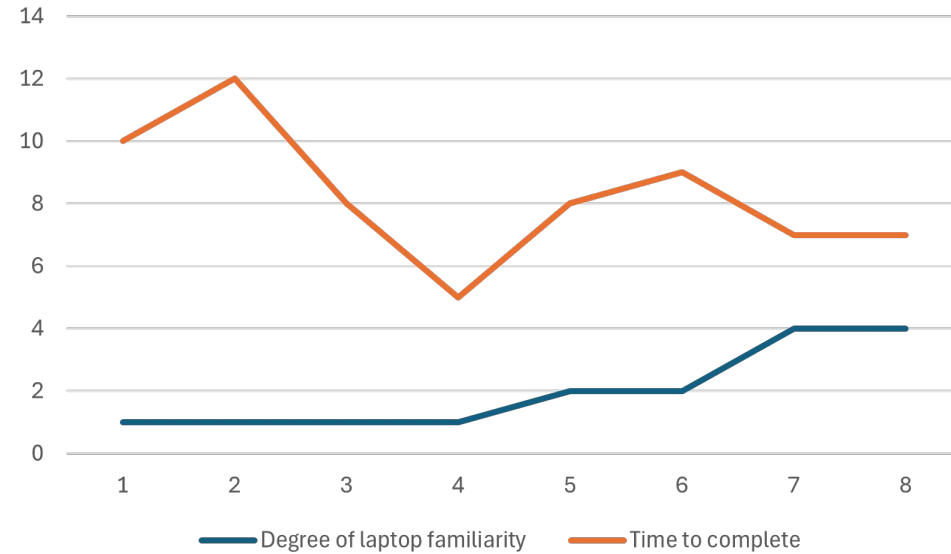
Engagement of
participants



Age and gaming experience had no correlation to time of completion. Tutorial type had.



- Owns a laptop, rarely uses
- Does not own a laptop
- Owns a desktop
- Owns and uses a laptop



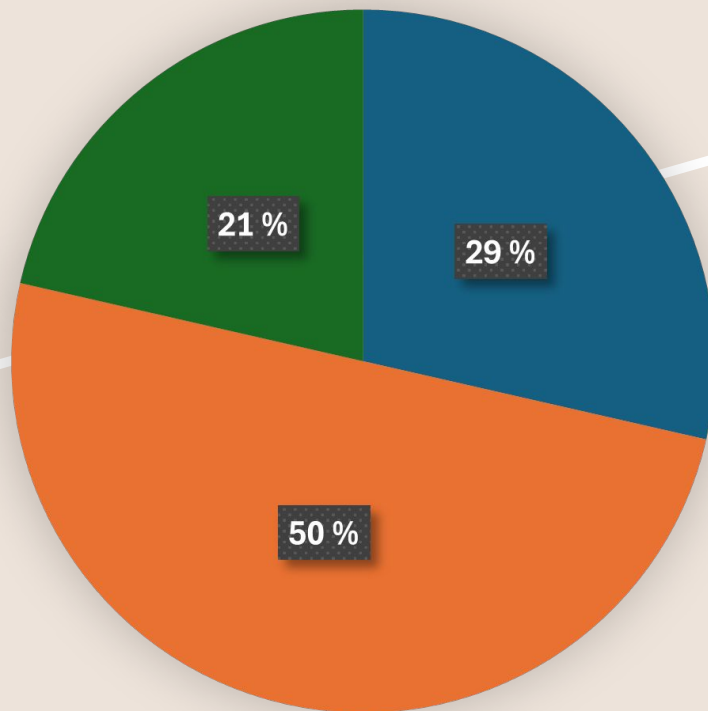
Being familiar with a keyboard was less important than which tutorial they played.

Results

part 2

Three main themes

- Difficulty in instruction-heavy environments
- Takeaways from level design
- Difficulty with movement controls



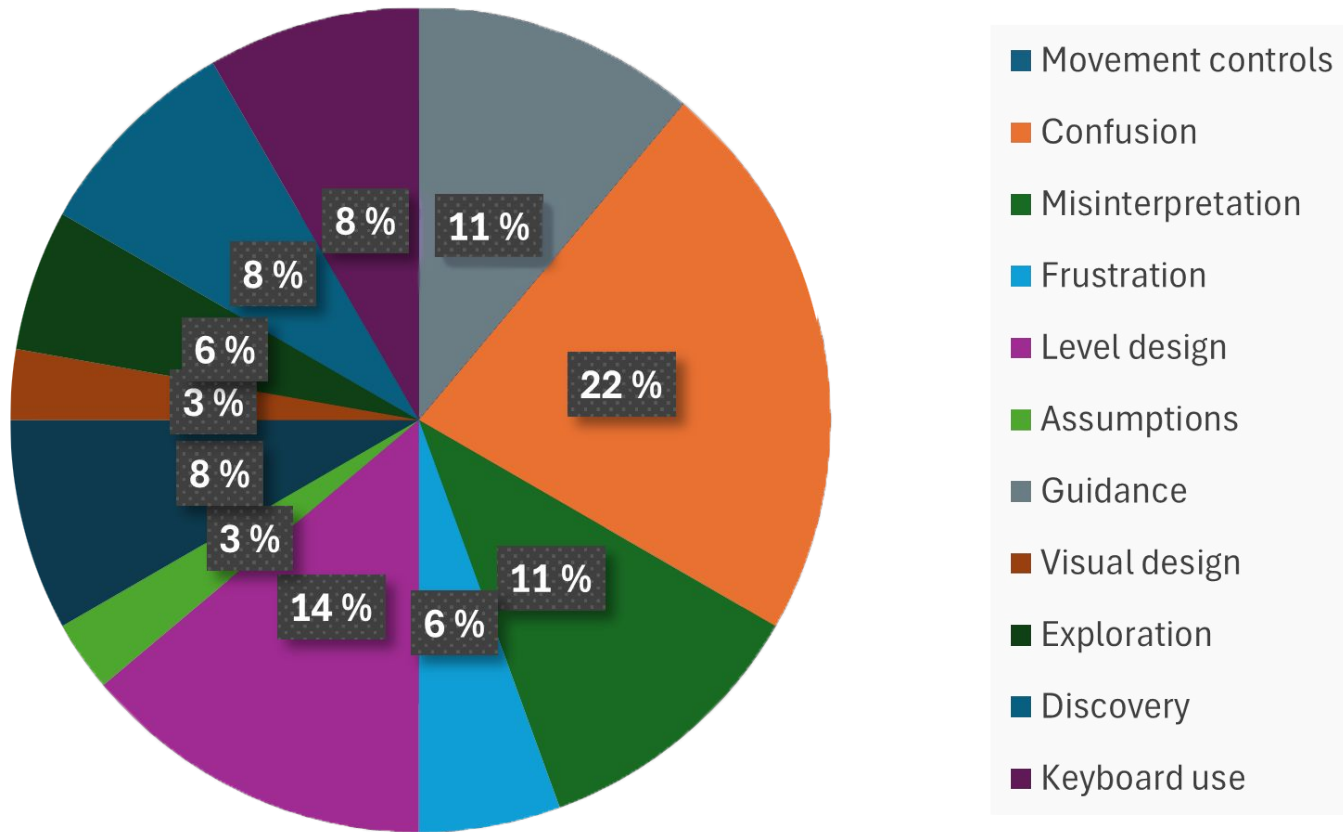


Chart of codes (based on 14 quotes from playtesting)

What does this tell us?

Instruction heavy tutorials don't perform the best

The ability to re-check instructions/goals was the most important

Level design can be so obvious that it actually gets confusing

Sound was important to the players, but secondary to the game development process

The divide between
“game logic” and “real
life logic” proved
extremely important

The road ahead

What are we planning to do between now and deadline

What will be different between this and final product

Thank you for your time

Feedback welcome