FINDING OUR WAY ON THE PATH LESS TRAVELLED

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Accessibility Design Lead/Strategist **UBISOFT**

@NeonAderyn
They/Them

ACCESSIBILITY BY DESIGN

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They/Them

David's Talk: https://youtu.be/mIPCM2WIyPY

UBISOFT ACCESSIBILITY



OC Accessibility Multiple Teams



David Tisserand Accessibility Director



Billy Gregory Accessibility Program Manager



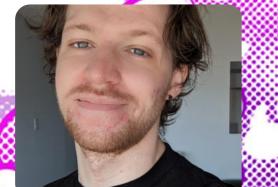
lan Hamilton Accessibility Design Consultant



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Stacey Jenkins Accessibility Design Specialist



FARCRY6

ASSASSIN'S CREED VALHALLA



DESTINY ¥2 BEYOND LIGHT

WATCHDOGS

LEGION



hyper|dot



dreams

REFLECTION GA Conf 2018: A Love Letter to the Games Industry



THE ROAD TRAVELLED



Accessibility by Design: Intentional Holistic Opportunity

NOW

FINDING OUR WAY

The Magnifying Glass Impact of Bias and Stigma Compassionate Design A Definition of Game Accessibility

Establishing a Practice Tech Industry Pitfalls Process is One Tool Design Thinking How We're Changing the Tide

AUCONIA SAUSSIE CONTR

We have a lot of buy in, with little knowledge.

FINDING OUR WAY

APRESS MELT

Accessibility in the past was down to a few people's hard work and luck, now it's time to make it everybody's responsibility. Jo Bedard, UX Director (Ubisoft)

We have a lot of buy in, with little knowledge.

WHERE ARE WE?

"ACCESSIBILITY" OPTIONS / SETTINGS/ FEATURES



EMPATHY



EMPATHY



COMPASSION





Compassion without Knowledge Knowledge without Compassion





Compassion + Knowledge = COMPREHENSION

Systems of Bias & Privilege Systems of Systems by Tatiana Mac https://youtu.be/TzGfBV67Tac

Compassion + Knowledge = COMPREHENSION

Intent does not erase impact.

Compassion + Knowledge = COMPREHENSION

Systems of Bias & Privilege Systems of Systems by Tatiana Mac https://youtu.be/TzGfBV67Tac

The Quest

Fight: instinct to protect / provide
Destroy: subtle forms of pity
Vanquish: guilt, Build: trust

ACCESSIBILITY UNDEFINED

Cognitive Bias Good Reaction = Right Action

Narrative Fallacy

Options = Accessibility Potential Hindsight

Bias

Converse Logic Options = Bandage = Accessibility Solved

TangibleDoes / Doesn't HaveObject:Accessibility

https://www.nngroup.com/articles/narrative-biases/ https://www.britannica.com/topic/converse https://thedecisionlab.com/biases/hindsight-bias/ https://thedecisionlab.com/biases/bandwagon-effect/

EVERY GAME HAS ALWAYS BEEN MORE, OR LESS ACCESSIBLE.

We give it a solid shape so it can be talked about. We should discuss the **efforts made for accessibility** instead.

COGNITIVE DISSONANCE:

Where the magic happens??



Billy Gregory @thebillygregory · Sep 23 Never a "feature". The absence of #a11y is a BUG. Change my mind.

.Υ.

27

Steve Faulkner @stevefaulkner · Sep 23
From @thebillygregory
#accessibility
is not
ia "feature"!
etsy.com/uk/listing/107...

10

COGNITIVE DISSONANCE:

Where the magic happens??



Bryce Johnson @brycej

Replying to @thebillygregory

Voiceover is a feature of iOS. Closed Captions are a feature of Movies.

Accessibility is not _____, except when it is.

We are not in the business of absolutes.

9:03 AM · Sep 23, 2021 · Twitter Web App

GAME ACCESSIBILITY DEFINED

Accessibility is:

a player's **access** to the gaming **experience** that's either **improved**, or **impeded** by the **design decisions** we make.

ACCOMMODATION OR ACCESSIBILITY?

ACCOMMODATIONS: Concessions or "assistance". Systems are least malleable.

ACCESSIBILITY: Equitable, inclusive access.

Game Systems = highly malleable.



ACCOMMODATION OR ACCESSIBILITY?



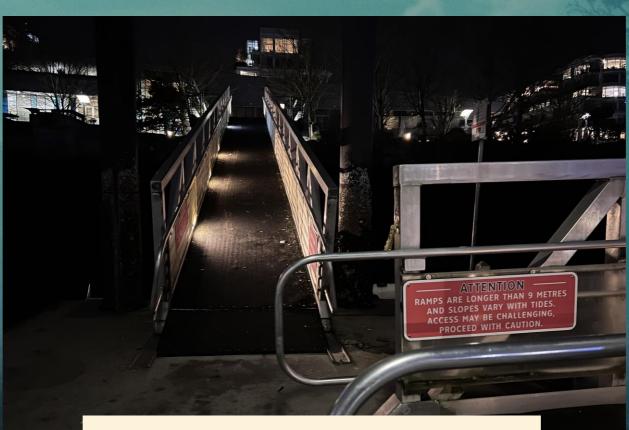
ACCESSIBILITY



ACCOMMODATION



ACCOMMODATION OR ACCESSIBILITY?



ASSIST NEEDED

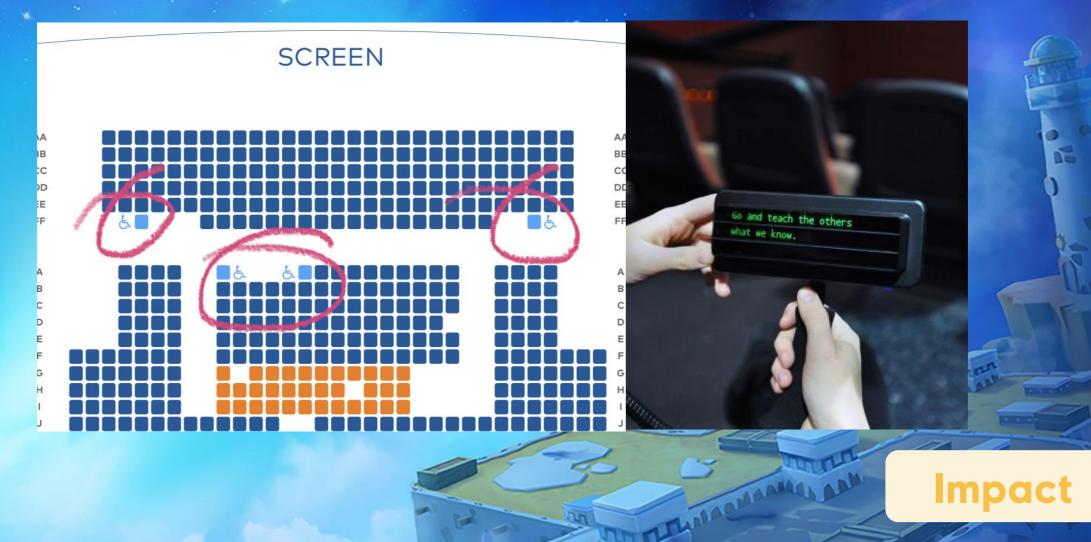


Not a separate experience. No inconvenience, embarrassment, pity.



How does accommodation feel?





How does accommodation feel? People disengage from the world.

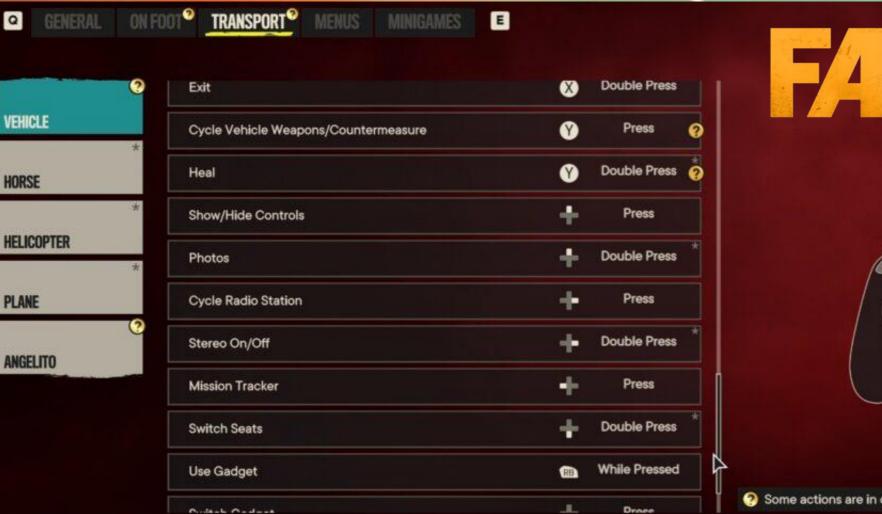


WORK FOR THE FUTURE, NOT TODAY. Are players being siloed based on who they are?

Accessibility isn't **done**, it must become a part of **everything** we do.

OPTIONS

a limited approach



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One actions are in conflict which can affect gameplay.



OPTIONS

a limited approach

Players are not controls designers.

HADES CONTROLS: DEFAULT



V1.38290

HADES CONTROLS: (RE)DESIGN



HADES CONTROLS: (RE)DESIGN

To implement controls pre-sets, we need:

- 1. An Understanding of Player Issues.
- 2. Solutions that work for a spectrum of people.
- **3**. Room in interaction, navigation, character, and combat design.

MENUS

Options, not "accessibility" options.

ALL options are for everybody and impact accessibility.

Ubisoft Research:

"Accessibility" menus are confusing and can lead to stigma. Every player expects something different. Many players don't identify as disabled.

Organize settings by the area of the game they affect, not the people we think will use them.

TAKEAWAYS: The Foundations

It's our **responsibility** to be analytical, thoughtful, and intentional in making equity a reality.

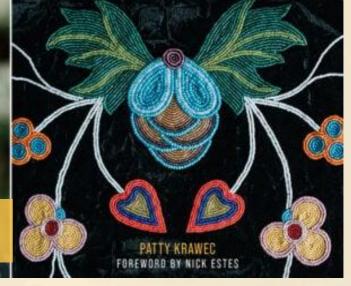
- **Comprehension** = Knowledge + Compassion.
 - Reduce paternalism and pity to **increase** compassion.
- Accessibility isn't a tangible thing a game does or doesn't have.
- Reduce assumptions: about players and **industry efforts**.
 Options have a **role.**
- Avoid accommodations, assists, stigma and **segregation**.

TAKEAWAYS: The Foundations

Patty Krawec



An Indigenous Call to Unforgetting the Past and Reimagining Our Future





IT'S TECH & U



USER RESEARCH

Evolve Comprehension



GUIDELINES

Background Knowledge

رج PRINCIPLES Inform Design



GAME DEVELOPMENT IS DIFFERENT Should we standardize?

Games are: Complex systems crafted to **elicit feelings** like **challenge** or **mastery**.

Highly interactive! A set of **intentional barriers**!

Want a side of guides?

For background and an introduction to WCAG, see <u>Web Content Accessibility Guidelines</u> (WCAG) Overview.

Page Contents

- Different documents for different purposes
 - WCAG 2 Standard
 - How to Meet WCAG 2 (Quick Reference)
 - Understanding WCAG 2
 - Techniques for WCAG 2
- Getting from one document to the other
- <u>Additional Resources</u>

Want a side of guides?

How to Meet Understanding WC Techniques

Other guidelines More Information

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- <u>Getting from one document to the other</u>
- Additional Resources

Getting from one document to the other

Customizable Quick Reference

How to Meet WCAG 2.0

Guidelines

Success Criteria

Techniques

W3C Standard

WCAG 2.0

Principles

Guidelines

- Success Criteria
- Conformance

Detailed Reference

Understanding WCAG 2.0

- Intent
- Benefits to people with disabilities
- Example scenarios
- Resources
- Techniques

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Techniques for WCAG 2.0

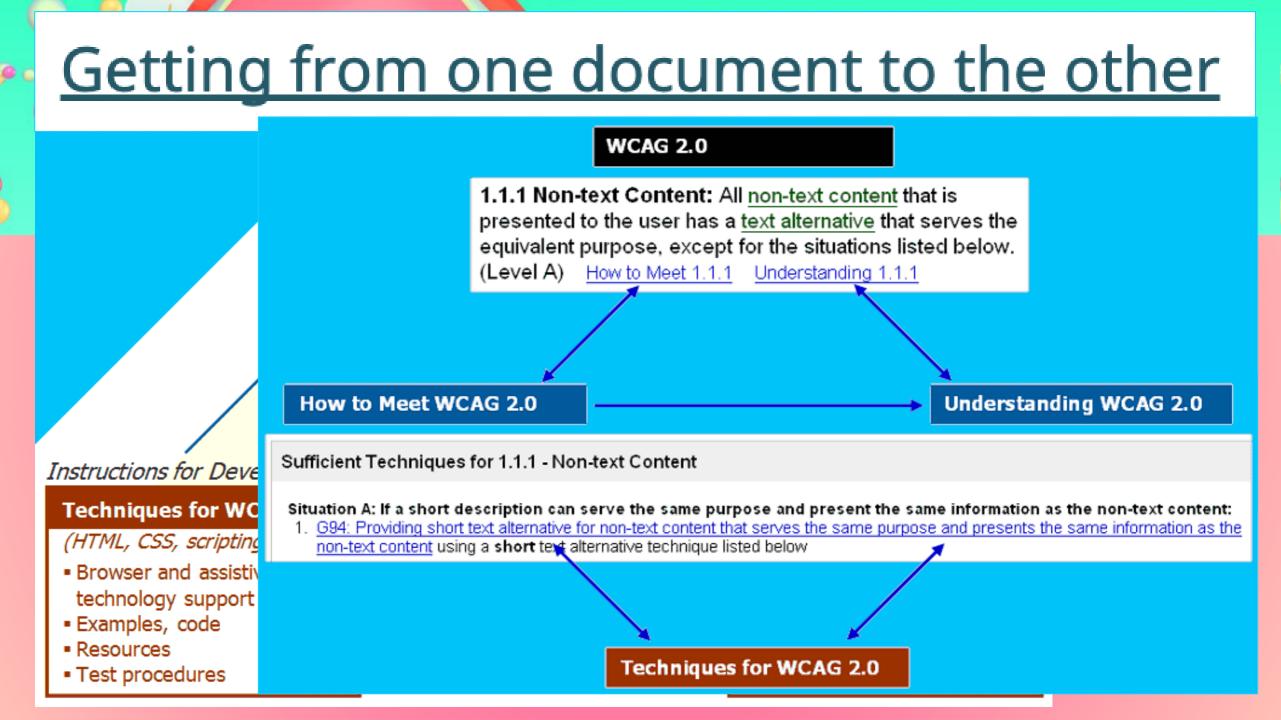
Instructions for Developers

(HTML, CSS, scripting, ...)

- Browser and assistive technology support notes
- Examples, code
- Resources

0

Test procedures



GUIDELINES, GUIDE, NOT PRESCRIBE.

Guidelines organized by disability type are difficult for developers to use. Try not to validate with only one or two players, or single disability types.

There's no such thing as Blind/Deaf/Motor/Cognitive Accessibility or Features.

ABOUT PROCESS

[Pre-Production]

[Production]

UBISOFT Stage Gate Process

•----

Kick Off Meeting

Accessibility Checkpoint

QC Checklist: One way to measure the unmeasurable. First Playable Alpha

ACCESSIBILITY CHECKPOINT

THE CHECKPOINT IS:

- Opportunity to demonstrate intentions and requirements.
- ✓ Critical time to scope.
- Based on our QC Checklist including CVAA (USA communication law).

THE CHECKPOINT ISN'T:

- Guarantee a game will be accessible.
- Mandate to make games a specific way.

WE ALSO NEED TO **CHANGE** MINDSETS: so process doesn't create too narrow a perspective.



DESIGN THINKING nngroup.com/articles/design-thinking/

IBM



Conduct research understanding of UNDERSTAND



Observe >

Immerse yourself in the real world.

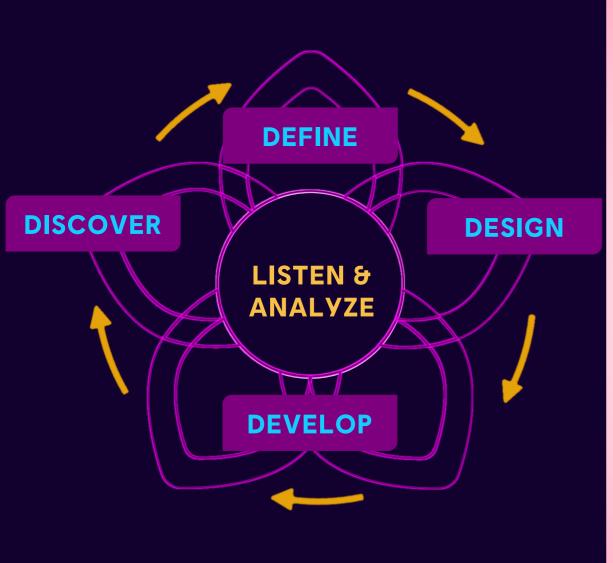
Reflect >

Come together and look within.

Make >

Give concrete form to abstract ideas.





Mindsets Create Practice Not Process

DISCOVER

Research, Observe, Understand

- → Start early!
- → Find accomplices
- \rightarrow Talk with players & experts
- → Workshop & learn
- → Research guidelines

DESIGN

Beyond Reflexive Ideas

- \rightarrow Stay curious!
- → Brainstorm & workshop
- \rightarrow Design for inclusion
- → Identify barriers, not solutions
- → Settings are last line
- \rightarrow Collaborate with specialists

LISTEN

First Hand Experiences

- Testing, advocates
- → Development playsessions
- → Inclusive UR, esp. alpha/beta

DEFINE

Spectrum of Players

- → Core experiences
- → What is "challenge"?
- → Establish pain points
- → Best practices
- \rightarrow Checklists \neq instructions

DEVELOP

Experiment and Refine

- → Cross discipline
- → Trust design intentions
- → Mock-ups, prototypes
- → Early in builds
- Include accessibility in validation processes

ANALYZE

Specialists, Experts/Champions

- → Analysis & feedback
- Use resources & benchmarks
- → Assess impact & priorities

HOW WE'RE TEACHING IT

PART 1: An Example Lens? What Lens?

PART 2: Presentation Big Picture Design Thinking

> PART 3: Intro Concept Game Design is UX

> > PART 4: Group Exercise

Reverse Brainstorm

PART 5: Discussion & Take-Aways It's Dangerous To Go Alone!

OUTLINE

3 HOURS

aka the plan™

PRIMARY NAVIGATION SYSTEMS

FOLLOW

THE WIND

THE FOX

THE BIRD

Ghost of Tsushima

SECONDARY NAVIGATION SYSTEMS

THE ENVIRONMENT

ROADS & PATHS

NATURE HISTORY

SEE, LISTEN, THINK



Ghost of Tsushima

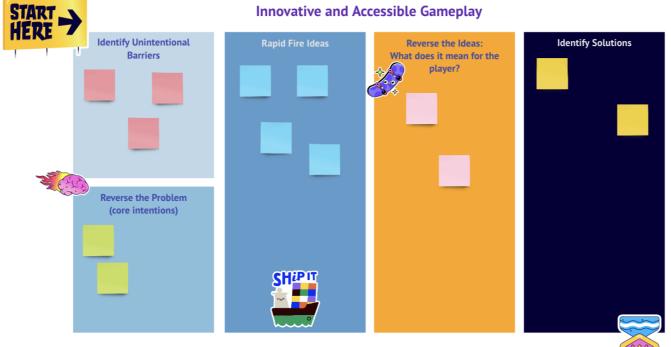
ESTABLISHING A LANGUAGE

HOW WE'RE TEACHING IT The Exercise

JERVIS .

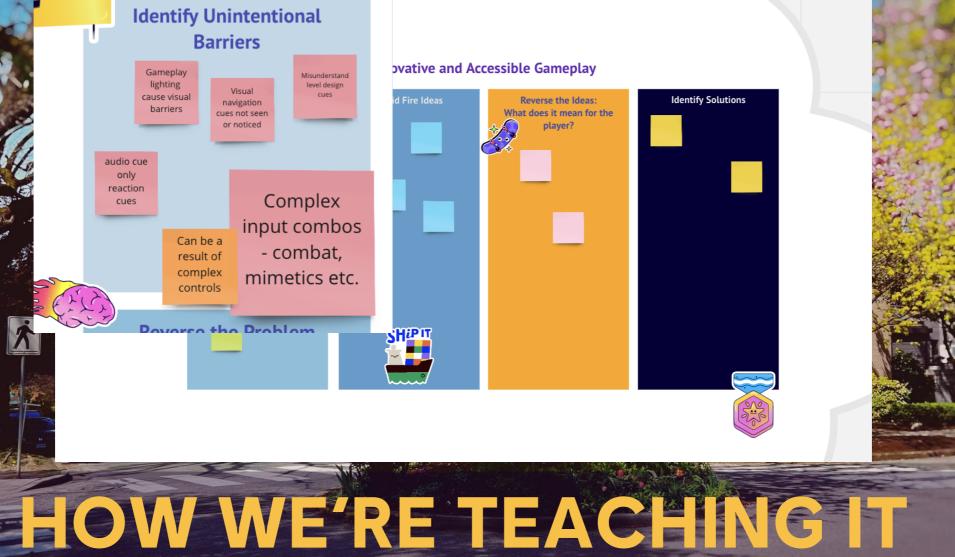
Group One

JERVIS



Innovative and Accessible Gameplay

HOW WE'RE TEACHING IT The Exercise



JERVIS

FOW WERE LEACHING I The Exercise

Group One

JERVIS



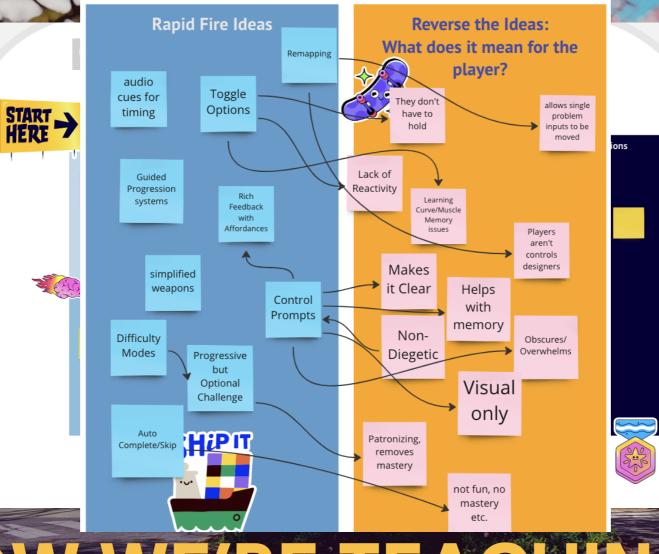
Innovative and Accessible Gameplay

HOW WE'RE TEACHING IT The Exercise



The Exercise

JERVIS



JERVIS

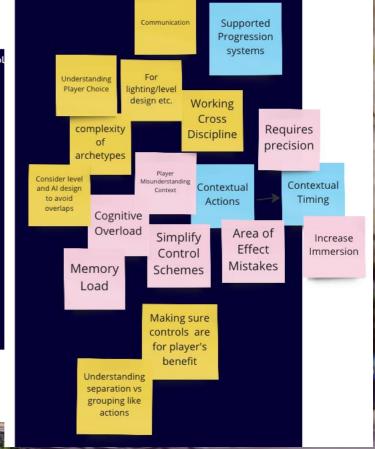
HOW WE'RE TEACHING IT The Exercise

Group One

JERVIS



Identify Solutions



HOW WE'RE TEACHING IT The Exercise



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Barriers

Visual

navigation

or noticed

Gameplay

lighting

cause visual

barriers

Can be a

result of

complex

controls

Depth

and

challenge

audio cue

only

reaction

cues

Interaction

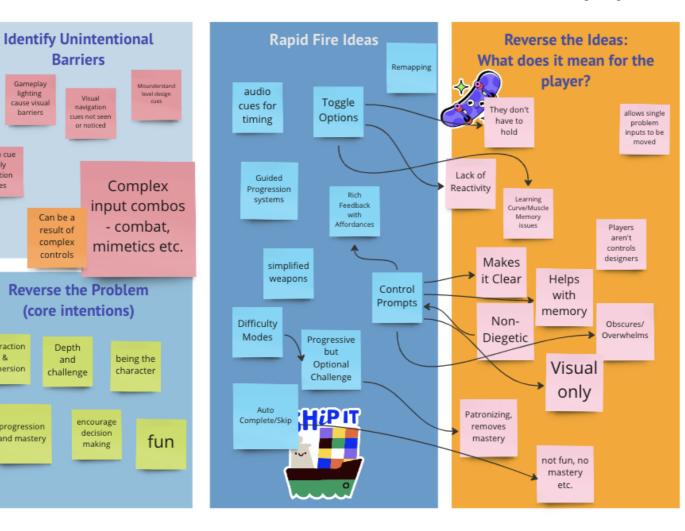
&

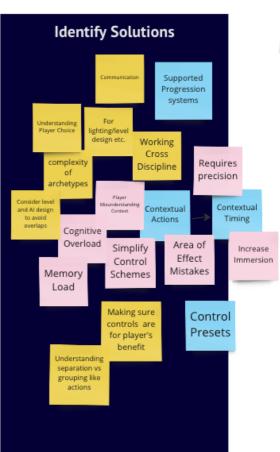
Immersion

progression

and mastery

Innovative and Accessible Gameplay







JUDGEMENT FREE ZONE

30-60 Mins: Deep Discussion

"I didn't expect it to be, but this was a lot of fun!" -World Designer

Increases: Cross discipline collaboration
Self Sufficiency
Knowledge Sharing

Tricky Topics:
Difficulty
Combat

KNOWLEDGE MANAGEMENT

Technical Writing & Resources

KNOWLEDGE

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KNOWLEDGE MANAGEMENT

Technical Writing & Resources

Design Documentation e.g., controls, legibility, colour

- Long form: 2-6,000 words
- Development topic
- Design Goal
- Benchmarks
- One Pagers
- Tracking
 - Language Primer
 - Process Guides

We **avoid** focusing on singular disability types

USER RESEARCH & EXPERT PLAYERS

X Avoid Feature Requests
 ✓ Find the barrier

Players are experts in their **own experience**. Designers are experts **in design**.

Routine UT: Recruit & ask about barriers.

UBISOFT Player Workshops

Expert players from each disability group.

Have to **coach** to look for barriers, talk about experiences, **not features**.



THE PRACTICE Takeaways

YOUR practice may be unique

Intentionality

o "They did it that way" is a potential distraction.
Ask: does it solve our players' barriers in equitable ways?
o Process is important but without a mindset we can't create a practice.
o Work Design Thinking into everyday design.

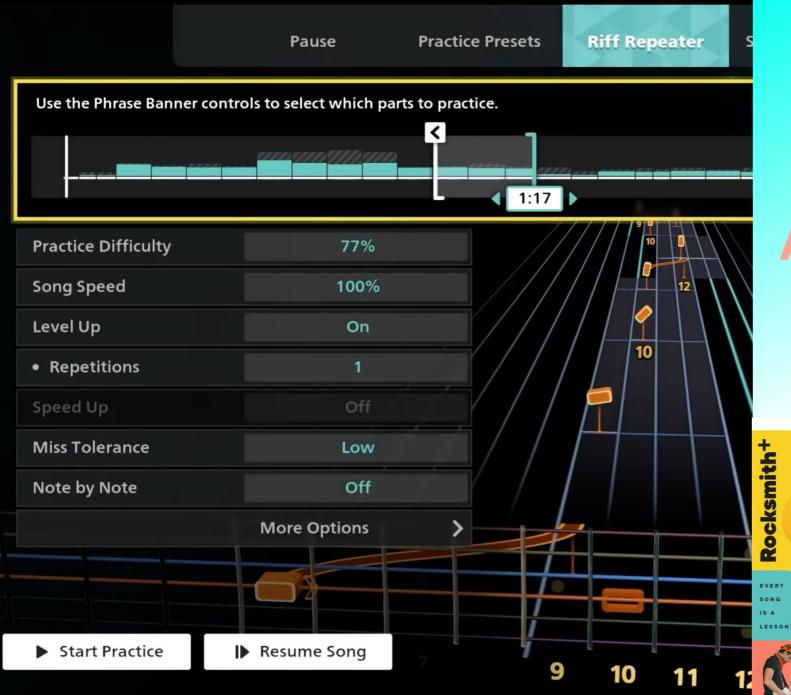
Adrian Roselli:

https://adrianroselli.com/2020/03/i-dont-care-what-google-or-appleor-whomever-did.html





- **Teach:** Educate to shift lenses to compassionate, equitable design.
- Spread the **mindset** in workshops, group exercises, or watch parties.
- Create a **cross discipline** task force for each project.
- Research: Each player is one experience in a spectrum of people.
 Seek barriers, not solutions.
- **Designers** should **Design!**
- **Solutions:** intentional and refined through Design Thinking.
- Checklists and guidelines can **guide**, but don't use them as a **prescription**.



EVERYBODY'S ALREADY DOING IT

Don't lose progress: see it!







ACCESSIBLE BY DESIGN

Few settings Sequel = Increase Challenge Challenge is about how players **feel**

- Player controlled character movement (no cursor interaction)
- Nothing is communicated by colour alone
- Key pathfinding and exploration tools
- Settings presented in-line with battle flow

REPRESENTATION + ACCESSIBILITY





Side Quest THE VALLEY OF THE FILLEN > Kill the Machines near the Horus



Strong vs.

Weak vs.

▲ Locked

R2 Tag Target







"ULTRA HARD" GAMES

An Exciting Design Problem!!

Rogue likes/lites Souls likes Metroidvania Multiplayer Precision Platformer Horror!

WE MAKE THE RULES! "ULTRA HARD" GAMES

An Exciting Design Problem!!

Rogue likes/lites Souls likes Metroidvania Multiplayer Precision Platformer Horror!

WE MAKE THE RULES! "ULTRA HARD" GAMES

An Exciting Design Problem!!

Disabled players want **challenge** and **mastery**. Difficulty modes may not be the answer.

DEFINE Challenge and Mastery (Feelings)

Challenge:

Can be worked through, not get stuck!

Mastery: Doing so fluidly, gradually increasing skill. It's not what we didn't know yesterday, but what we do tomorrow, with what we know now.

- CLINTON LEXA

THANK YOU!

Aderyn, They/Them @NeonAderyn

MY FAVE LOGIC PROBLEM https://en.wikipedia.org/wiki/ Confusion_of_the_inverse