

# No More Excuses, Your Guide to **Accessible Design**

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#### GAME DEVELOPERS CONFERENCE

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#### WHAT ARE WE TALKING ABOUT TODAY?

- Who has a disability and what that means for games
- Features that improve your titles
- Resources



# How do you think of disability?





#### MEDICAL MODEL



Viewed as an extension of a condition that needs treatment or therapy.

## GOVERNMENT MODEL



Prevents you from substantial gainful activity, such as work

#### NEITHER OF THOSE ARE GREAT.



The cultural habit of regarding the condition of the person, not the built environment or the social organization of activities, as the source of the problem, runs deep.

-Deborah Kaplan, Director of the World Institute on Disability.

#### COM MO

# SOCIAL MODEL



•Result of Societal Forces on an impairment

# WHAT'S THAT MEAN?

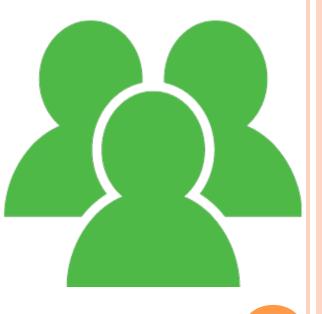




# WHO IS DISABLED?





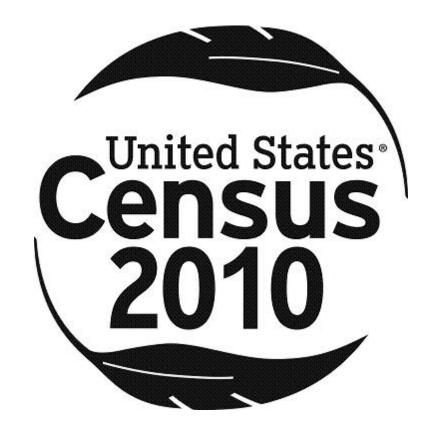


#### How we'll talk about it

- International Classification of Functioning, Disability, and Health(ICF)
- An umbrella term for impairments, activity limitations, and participation restrictions – mental and physical

# CUM

## LET'S START TALKING NUMBERS.



#### . . . . .

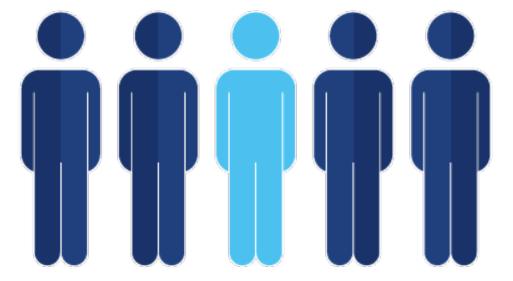
## ONE IN FIVE HAVE A DISABILITY



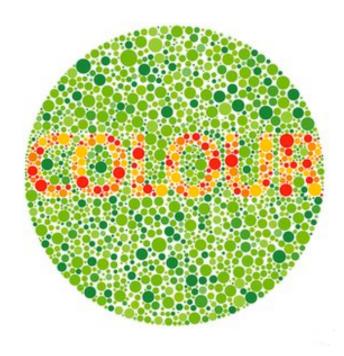
6.9 Million



56.7 Million

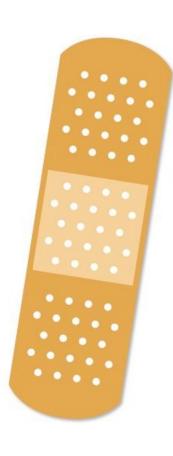


## BUT SOMETHING'S MISSING-



- Doesn't record information on colorblindness
- 14% of adult population with reading age below 11yrs old
- Future Impairments

#### **FUTURE IMPAIRMENTS**

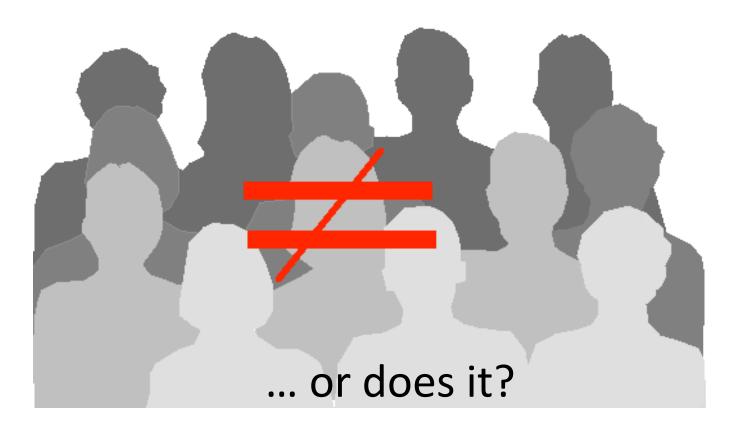


- those not with a disability now that will be in the future
- includes injuries such as broken arms and arthritis – two things that we may not think of as someone being "disabled" but would deeply impact someone's ability to play games

# IT'S MORE LIKELY THAN YOU THINK.



# THAT DOESN'T MEAN IT'S REPRESENTATIVE OF YOUR AUDIENCE





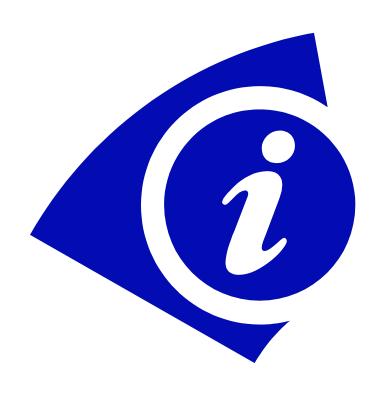


# SURVEY OF CASUAL GAMERS

20.5% of Gamers vs 15.1% of General Population



## WHAT ABOUT HARDCORE GAMERS?



- No data
- Likely lower number of gamers
- Games aimed at this audience less accessible

#### WHY ENGAGE THIS GROUP?



- Play more frequently
- More Hours a week
- Longer periods per gaming session
- Report more benefits from playing

#### HELPING THEM HELPS YOU



- More dedicated consumers
- More likely to refer games to friends
- More likely to buy additional titles
- Results in a better overall product

#### AN EXAMPLE



 Work for those with an auditory disability helps text only localized skus

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# SO WHAT CAN YOU DO?













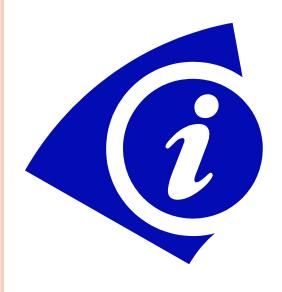


# SUBTITLES/CLOSED CAPTIONS



- On screen text for all speech in game
- Include important sounds for captions
- Not just cinematics

#### WHO IS THIS FOR?

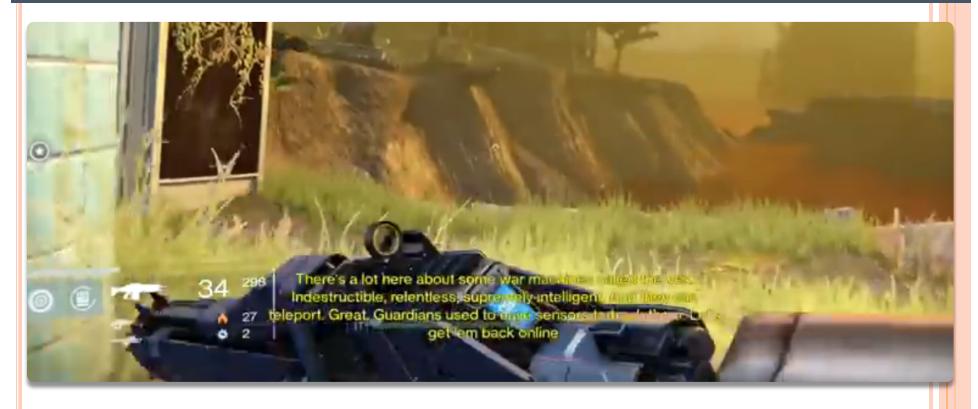


- Not just those with hearing issues
- Gamers in noisy places (portables)
- Gamers in quiet places
- Text only localized SKUs

## COMMON MISTAKES



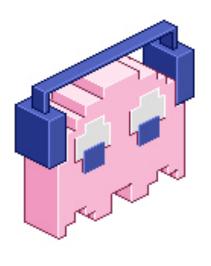
- Too much text
- Hard to read font or color
- No info on who is talking
- Not all VO subtitled



• An extreme case of poorly implemented subtitles.



## WHY DOES THAT MATTER?



- Mild vision impairment commonly associated with hearing impairment
- Lower reading ages because BSL/ASL is their first language

#### No Excuse Guidelines



- Centered at the bottom of the screen
- Try to limit to of 3 lines at a time
- Spoken Text in upper and lower case
- SFX in all caps \*STATIC\*

## MAKE IT EASY TO READ



- Letter boxing
- List your speaker
- Consider font size and color

# Make them easy to understand



- Offer a sans serif font
- •Color label your speakers!

# BASE LEVEL ACCESSIBLE



# M

# A DIFFERENT TAKE ON ACCESSIBLE



# LET'S NOT FORGET SYSTEMIC VO!





# GAMERS NOTICE WHEN IT'S NOT THERE.

#### Accessibility At A Glance Bayonetta 2

9.1

Precision > Yes You will NOT need precision to play

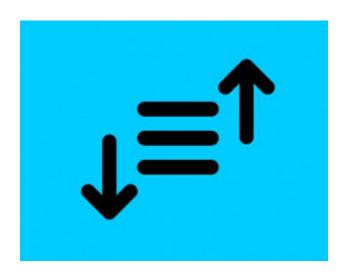
One-Handed > Yes One-Handed gamers shoud be okay

Deaf Gamers > Yes You should have no issues with this game

Subtitles > Yes Character text is present but not ambiant

Colorblind > Yes Colorblind gamers should be okay

# PRIORITY QUEUING SYSTEM



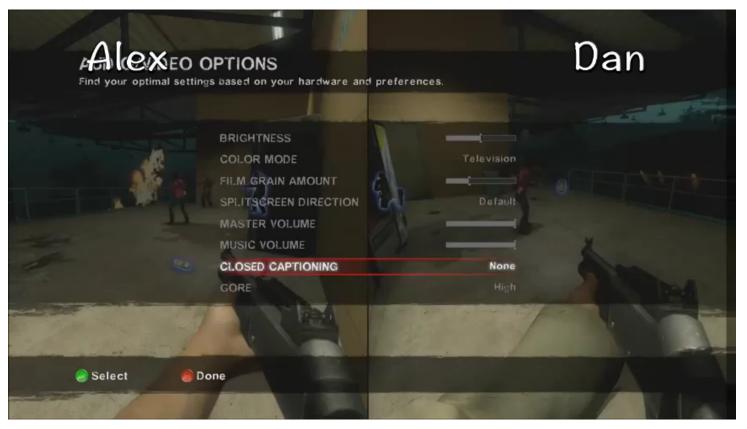
- 1. Story Dialogue
- 2. Systemic Dialogue
- 3. Audio Queues

#### TIME STAMP EXAMPLE

- **0:00** Character dialogue (Level 1 sound) starts playing, subtitle displayed for 2 seconds
- 0:01 Combat VO (Level 2 sound) starts playing, no room on screen for caption to be displayed, ignored
- **0:02** Character dialogue (Level 1 sound)'s 2 seconds pass, subtitle removed
- 0:03 Combat VO (Level 2 sound) starts playing, caption displayed

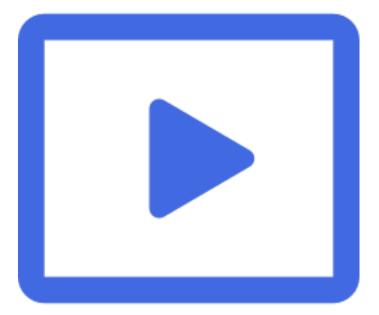


## No such thing as too much text for disabled gamers





#### DON'T FORGET TO LET PLAYERS TURN THEM ON.



#### SOUND ALTERNATIVES



•Visually representing important sounds in ways other than text

# AN EXAMPLE

## Silent Hill 1



# **Silent Hill Homecoming**



# TRAINING MODE/TUTORIALS



- Low pressure place for gamers to adjust and learn
- Interactive

## TIMER FREE TEXT PROMPTS



 Give the player time to read text at their own pace

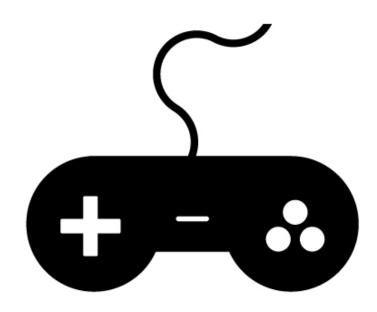
# M

# TWILIGHT PRINCESS HAS BOTH



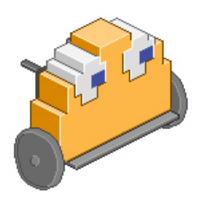
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#### REMAPPABLE CONTROLS



Allow the player to remap gameplay controls as they see fit

#### **BACKGROUND INFO**



- Most requested feature because it helps a wide range of people
- Adjusting standard controllers to get around impairments
- Remapping Custom controllers







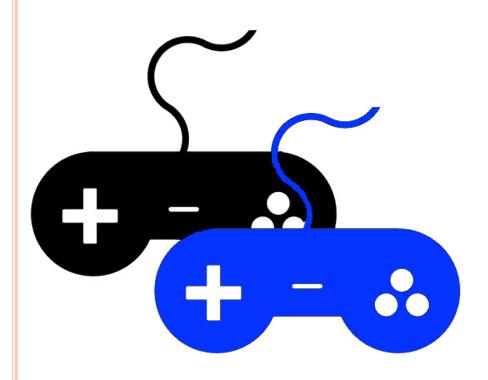
You can remap buttons to your liking in Borderlands 2 on PS Vita. I mapped Sprint to O and Melee to triangle:)

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- Shuhei Yoshida, President of Worldwide Studios, Sony Computer Entertainment

#### ADDITIONAL CONTROL OPTIONS



- Pre-sets
- Horizontal/Vertical Inversion
- Sensitivity Adjustments
- Southpaw
- Toggle Aim/Crouch

# COMBINING THESE TWO FEATURES

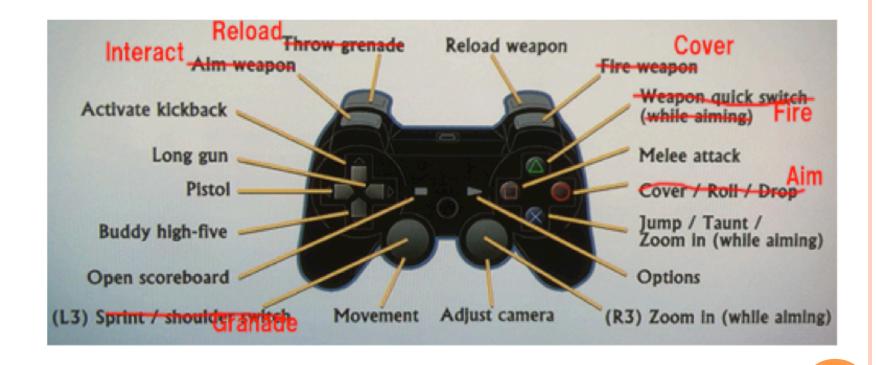


#### ON STANDARD CONTROLLERS -



- Shoulder buttons require largest range of motion, strength
- Commonly remapped
- Commonly important





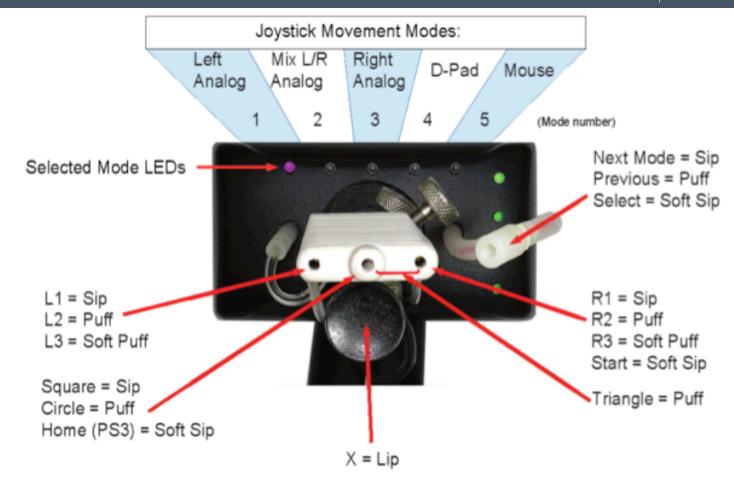
Uncharted Multiplayer

# **CUSTOM CONTROLLERS**





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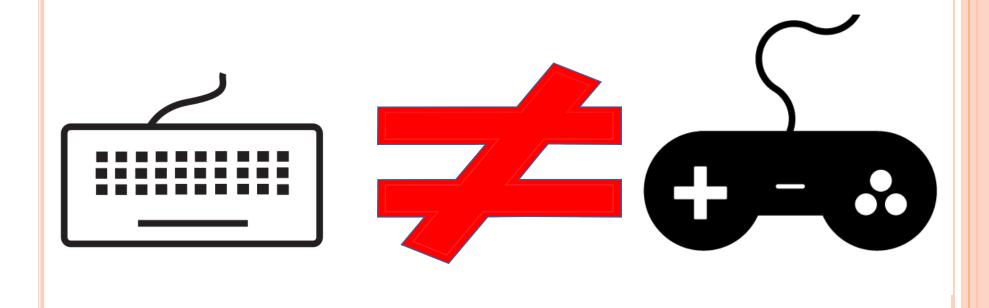
#### REMAPPING THE HARDWARE?



\$399 for Adroit

\$399 for 500 GB PS4





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# HOW CAN YOU IMPLEMENT IT?





#### POPULAR WAYS TO REMAP

#### The List



#### **The Button Swap**





Street Fighter 4

# SELECT A CONTROL SCHEME

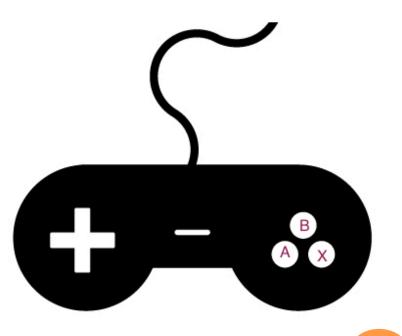


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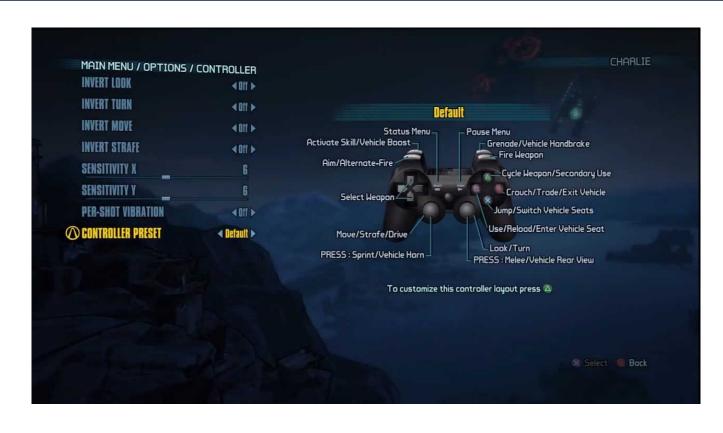
< Jump > В

< Run >

A X < Fire >





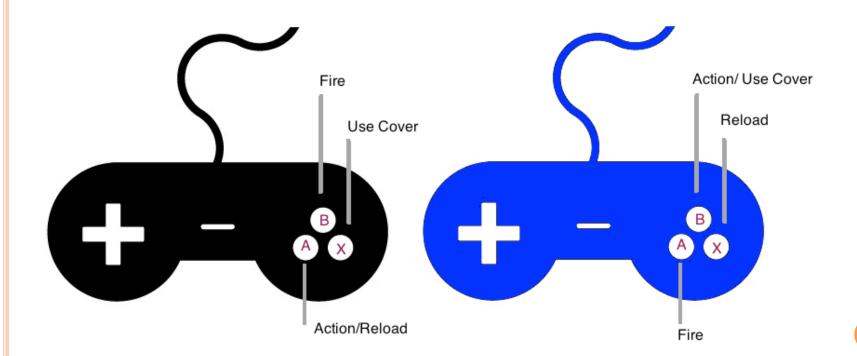


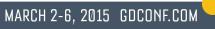
#### Borderlands 2

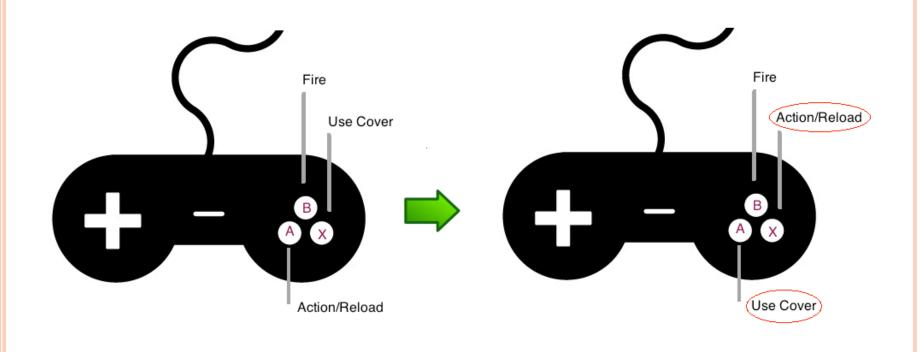
# SELECT A CONTROL SCHEME



# CONTROL SCHEMES MIX UP THEIR ACTIONS







# BOTH WAYS TO REMAP MAP PURPOSEFULLY DON'T

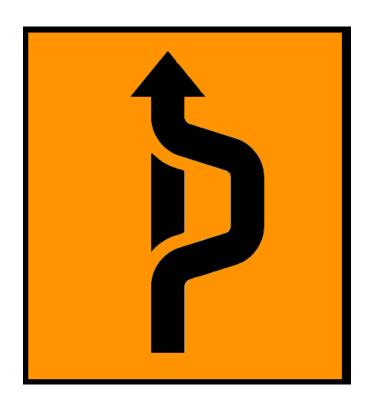


- Remap menu inputs
- Remap Joystick analog with a button input
- Anything that violates first party rules

## WHAT ABOUT QTES?

- Gamers with disabilities prefer that these get remapped with the rest of the controls
- If that is not possible, they would still rather take actions being able to remapped/limited remapping and QTEs remaining on the same buttons than no remapping at all

# BYPASS MODE FOR QTE/BUTTON MASH



- Autopass
- Removing timer
- Single Button Press vs Mashing

#### RESIDENT EVIL 6 ACTION BUTTON

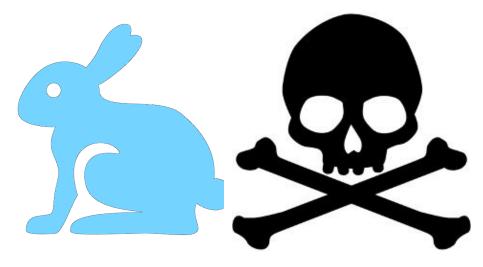


Originally auto action button to complete auto win QTEs was only available for Amateur difficulty, but after they received enough requests from other players, they patched it in for all difficulties.



# HARSHIL THE CAT

#### WIDE RANGE OF DIFFICULTY LEVELS



- Almost no way to fail to almost no way to win
- Narrative Mode
- Someone will use it, don't doubt

### More Info

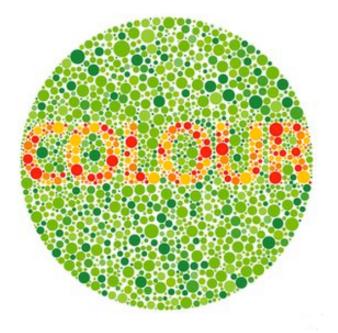
- These gamers would like a difficulty that your grandma could play and not get frustrated on.
- Gamers commonly ask for min of 4 difficulties
  - Story Mode Almost impossible to lose, limited achievement unlocks if necessary
  - Easy
  - Normal
  - Hard
- A large of amount of checkpoints is always helpful

# MISSION CRITICAL HELP



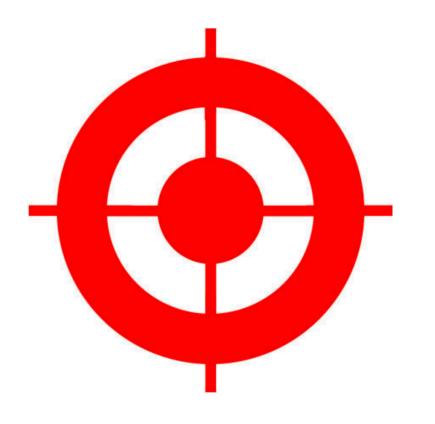
- Tool Tips
- Highlighting Important Items
- o In Game GPS

# COLOR BLIND FRIENDLY



- No information based on color alone
- Not just red/green

# Assistive Modes



- Auto aim
- Aim Assist
- Enemy Lock On
- Auto Center

# FALLOUT 3 AND VATS



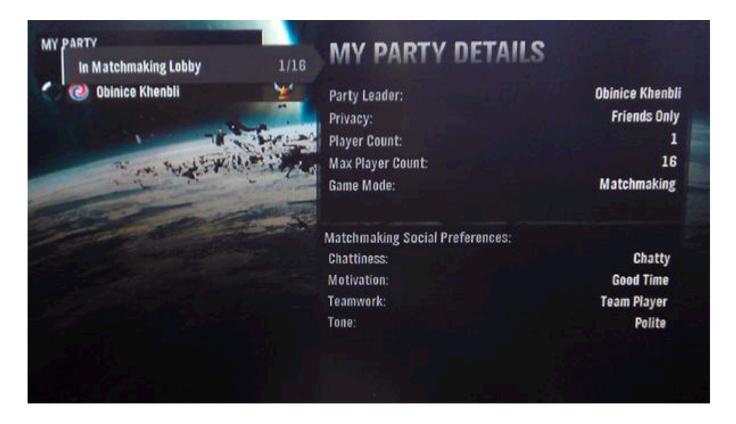
# Multiplayer Profiles



 Provide a way for a gamer to be paired with others okay with their play style

# M

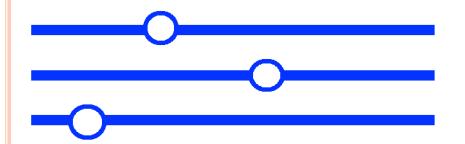
## HALO REACH PARTY DETAILS



# **GTA LOBBY OPTIONS**



## **AUDIO SLIDERS**



 Allow the player to individually adjust speech, SFX and music



# THE ORDER: 1886

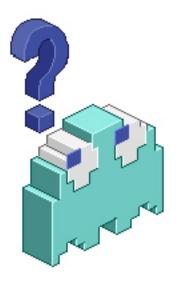


## **DOCUMENTATION**

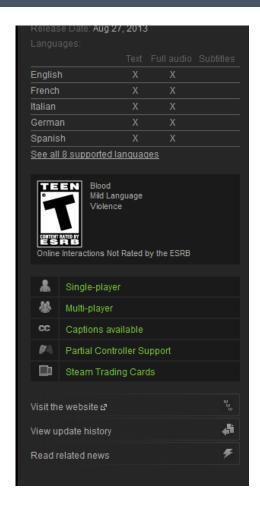


Let gamers know what features you've added

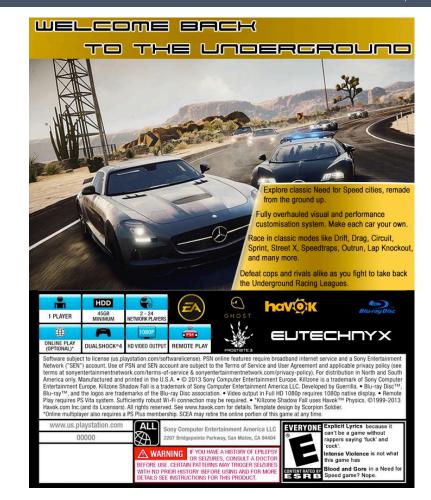
# CAN I PLAY?



- You don't know until you buy
- If you can't you've wasted money



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## JUST PUT IT ON YOUR WEBSITE.



## PLAN EARLY.

- Any of these features when planned early are not hard to implement or massively time consuming
- Trying to retrofit some of these features can be incredibly hard.



### RECAP THE FEATURES

- Subtitles/Closed Captions
- Sound Alternatives
- Remappable Controls
- Control Options
- Difficulty Levels
- Bypass Mode for QTE/ Button Mash
- Mission Critical Help

- Colorblind Friendly
- Training Mode/Tutorials
- Assistive Modes
- Timer Free Text Prompts
- Multiplayer Profiles
- Audio Sliders
- Documentation

### WHERE TO GO



Game Accessibility Guidelines



Includifaction from AbleGamers

With 100 features and best case examples from accessibility experts

Easy to follow checklist with challenges to make you think about your designs

## F. COM

# WHY ARE THESE GREAT?







INTERMEDIATE



ADVANCED

# More, More, More





# QUESTIONS?





@LadieAuPair