

## Until You Fall: Building Satisfying VR Combat on a Budget

Dave Bennett (Project Director) & Patrick Jalbert (Design Director)

Schell Games

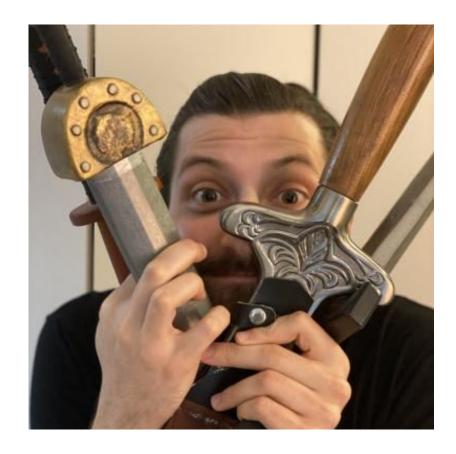




#### Who Are We?



Dave Bennett



Patrick Jalbert



# **SCHELL GAMES**







- Melee Combat Action Game
- Rogue-Lite Elements
- ❖ You are a Badass Glowing Knight
- ❖ Weird Blend of Neon and Fantasy with a Synthwave Soundtrack
- Rhythm-Lite Combat/Gameplay
  - > Choreographed Attacks and Blocks

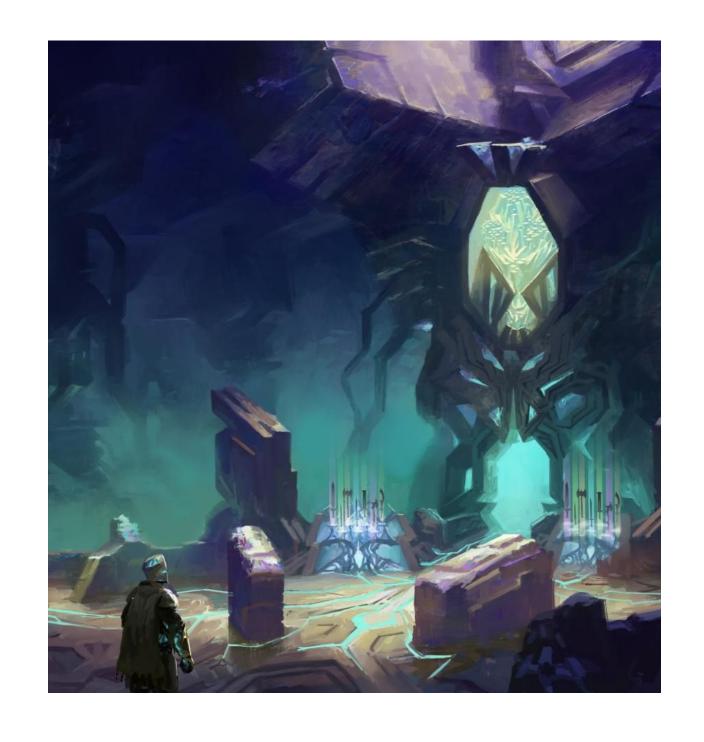






#### About this Talk

- Our Goal for Until You Fall
  - > Make a game that was high action & replayable
- Our Roles
  - > Dave is Project Director High Level Vision & Theme
  - > Patrick is Design Director Vision for Combat Systems
- Even though it wasn't SG's first VR game, we faced plenty of difficult challenges
  - > ...and learned some useful lessons we wish we knew much earlier on
- We wanted to share some of the more salient takeaways from each of our perspectives





#### Our Five Big Takeaways

- It's Okay to Reference Non-VR Games
- ❖ Be Wary of Secondary VR Interactions
- Know your Player Fantasy
- Set the Rules of Your Virtual Reality
- Incentivize the Fantasy







## Takeaway #1: It's Okay to Reference Non-VR Games

Once Bitten, Twice Motion Sick



#### The Perils of Trailblazing

- ❖ There are lots of assumptions we've had to throw out as VR devs
  - > See: Motion Sickness
- It can feel like our experience making games is leading us in the wrong direction
- It's easy to become gun shy about trying traditional techniques in VR
- ❖ Also leads to sweeping generalizations about things you "can't" do in VR
  - > It's easy to assume that you have to invent new solutions for old problems



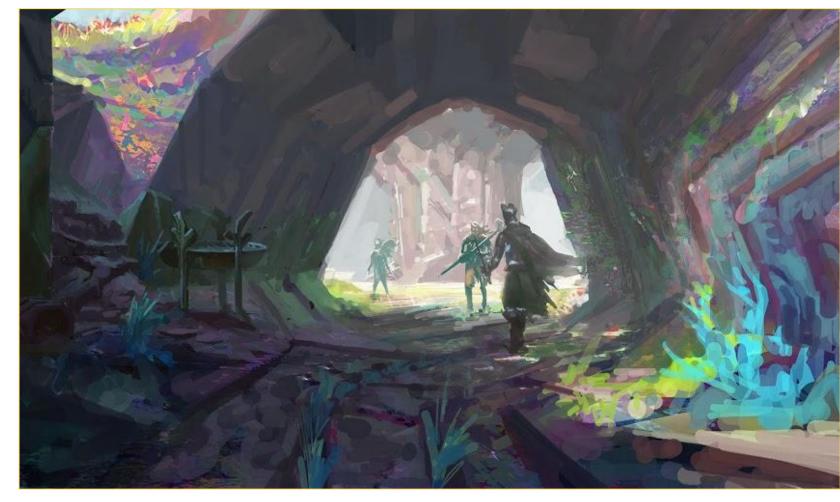


#### The Non-VR Solution can still Work

- ...especially when it comes to game feel
  - Wanted to have high intensity combat and satisfying hits usually achieved with things like hit pause, screen flash, camera shake
- We studied a variety of other games
  - > Used ideas from these games as starting points
  - Some solutions just worked!(Screen Flash / Camera Shake)
  - > Iterated into the VR specific solutions as needed
- This Directly Lead to...
  - Movement System
  - Impact / VFX System
  - Weapon Weights







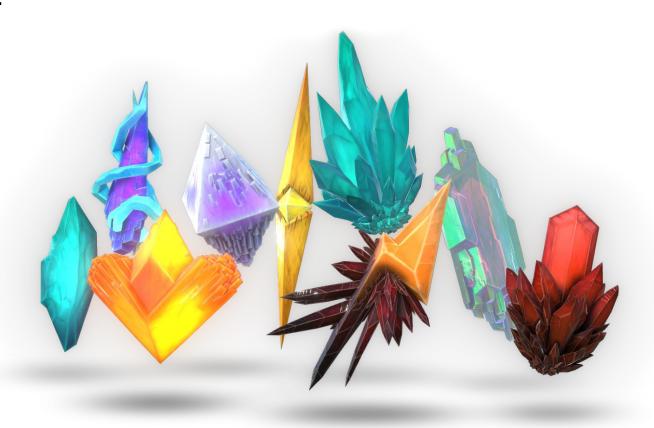
# Takeaway #2: Be Wary of Secondary VR Interactions

A.K.A, Don't Drop the Sword



#### The Allure of Secondary Interactions

- ❖ High fidelity interactions are seductive in VR
  - "High Fidelity VR" = Touch everything. Pick up anything. Interact with everything!
- A lot of early VR based their gameplay on having a wide variety of novel interactions
- However, if your game is trying to pursue a specific fantasy, having a lot of interactions can become a trap
  - > ...which we fell into during Until You Fall's Development





#### The Lost Features of Until You Fall

- The pitch for UYF started with a solid combat prototype
- ❖ Needed to turn this prototype into a "fully immersive, fully featured VR dungeon crawling game"
- So, we started prototyping features that seemed necessary to keep it immersive in VR
  - Looting, Consumables, Weapon Holsters, Throwing, Weapon Pinning, Climbing, and More!
- Each feature added inspired us to either add more depth or more polish to make sure it met players expectations





#### Dropping the Sword

- ❖ We noticed that, during playtests, players were dropping their Swords
  ➤ This was a symptom of a bigger problem
- By adding all of these secondary interactions, we also added a <u>bunch of new ways for the player to fail</u>

Climbing = Falling Throwing = Dropping with Style
Weapon Holsters = Weapon Dropping Weapon Pinning = Weapon Stuck...ing
Looting = Grabbing wrong thing

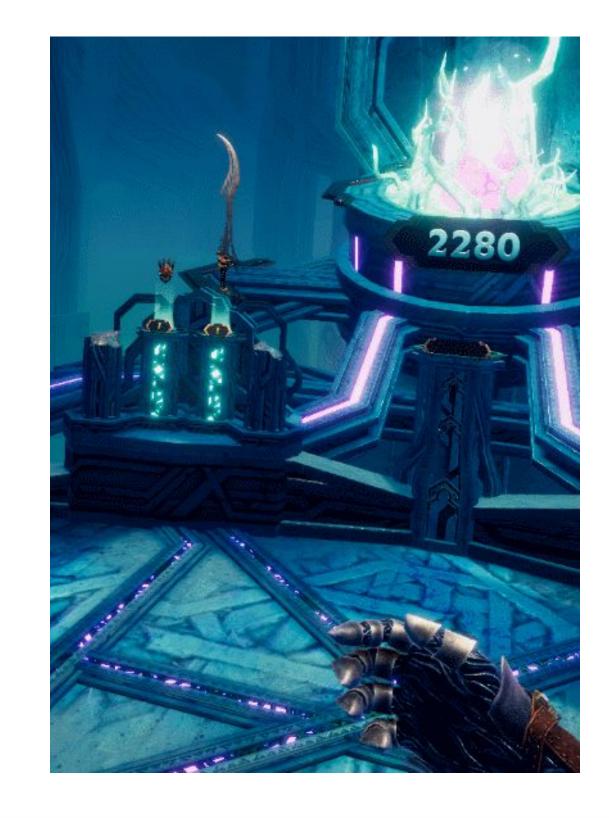
These were solvable problems, but it became obvious that the iteration & tutorialization costs would push us well out of scope





#### Don't Drop the Sword

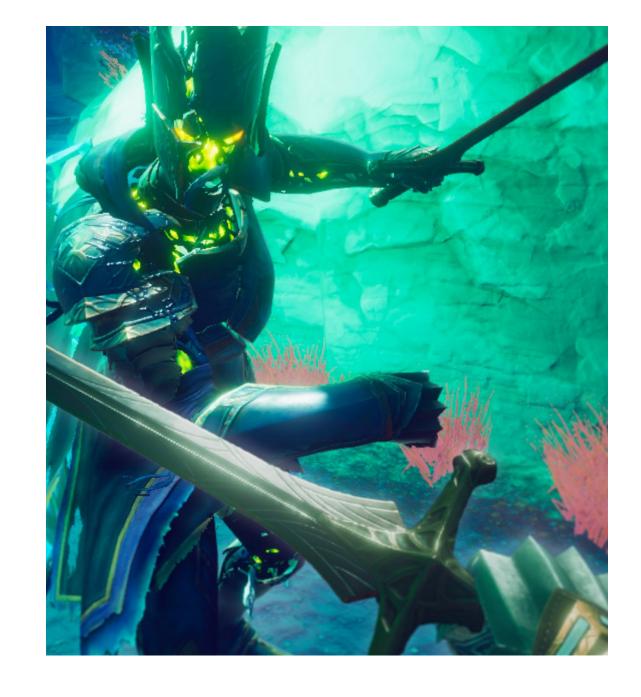
- We took a hard look at what was really important to the experience
  - > Spoiler: It was hitting enemies with swords
- Asked ourselves in what ways is it okay to be bad at the game, and looked at all of our features
  - Most of the "VR Interaction Polish" was removed or reimagined entirely
  - > When possible, we tried to transform opportunities to fail into opportunities to feel cool
  - > Weapon Summoning is a great example of this



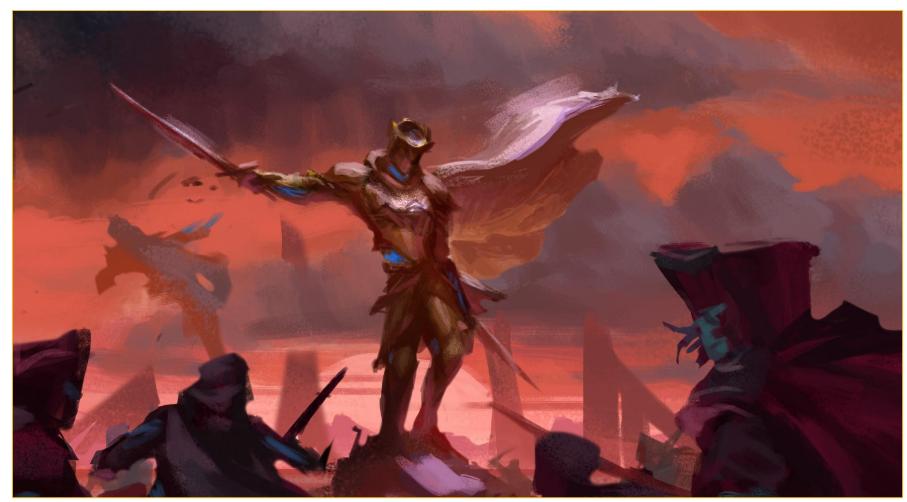


#### How to Avoid Dropping Swords

- ❖ For every feature, ask yourself...
  - > Does it do anything other than increase immersion?
  - > Does it introduce more depth or confusion?
  - > Does it support a core interaction in an important way?
  - Could another solution do that in a way that doesn't add complexity?
  - Does it support your player fantasy?







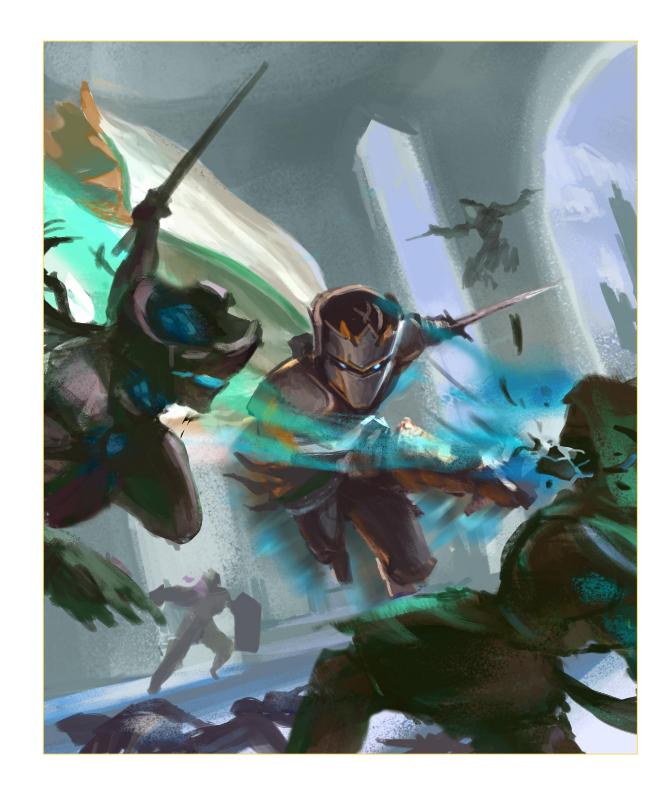
# Takeaway #3: Know your Player Fantasy

The arbiter of affordance



#### Give 'em Context

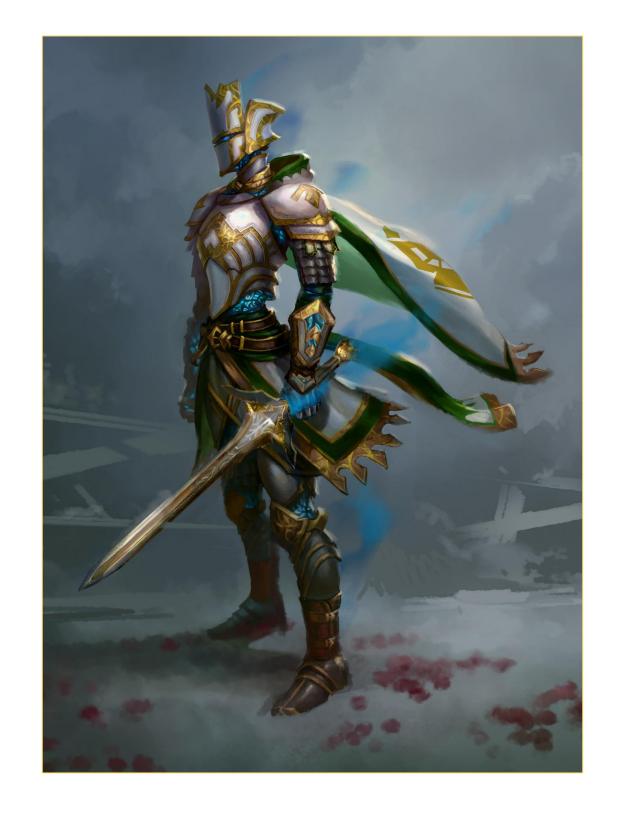
- In Until You Fall you are an Awesome Magical Knight from the moment you start our experience
- This is a game about dying and learning from your mistakes and feeling okay about it
  - > Death is expected, so make it feel worthy
  - You're not bad at the game, you fought valiantly until the end
    - ... and you will be rewarded for doing so





#### Becoming a Sword God

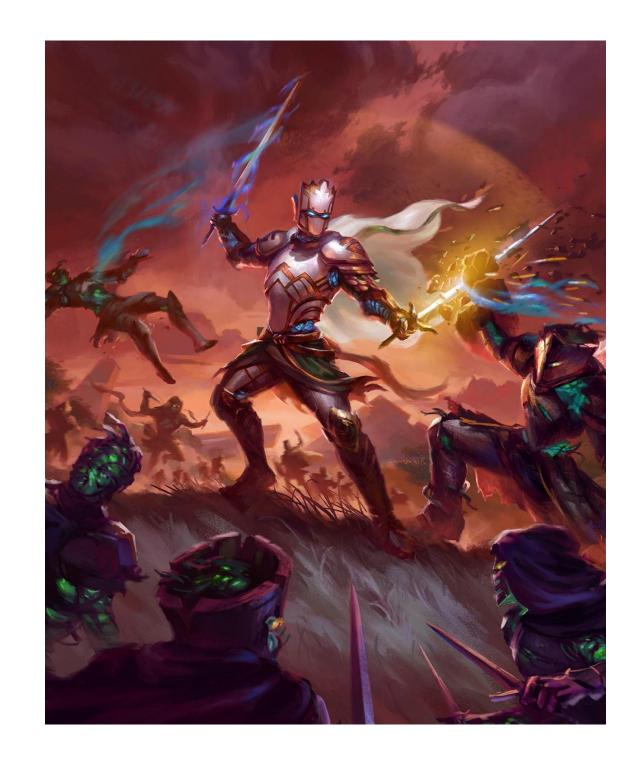
- To reiterate, in Until You Fall, you're supposed to feel like a <u>Sword God</u>
- Preserving this heroic identity became the guiding light for many Features:
  - Upgrades are chosen by crushing them in your mailed fist
  - The game's narrator was designed to pump you up, reinforcing that you are powerful / worthy
  - > 'Lesser Husks' as a weaker-than-weak enemy
    - Husks teach basic combat
    - Lesser Husks remind you that you are STRONG
- All of these features became ways to invite players to believe in the power fantasy, even when learning how to use VR



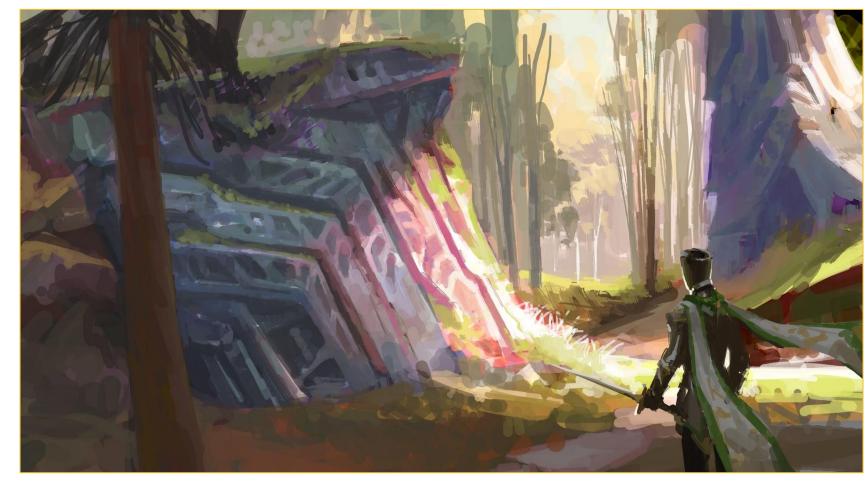


#### Indirect Reinforcement

- This feeds back into reinforcing the important part of the game: the combat
- When you believe you're a badass knight, you act like one
  - Heroic Poses and Posture
  - Big, Exaggerated Swings
- Bonus: Clear Player Fantasy is excellent for scope control
  - > If the feature didn't make you feel powerful, we removed it
  - > ...or changed the rules for how it worked







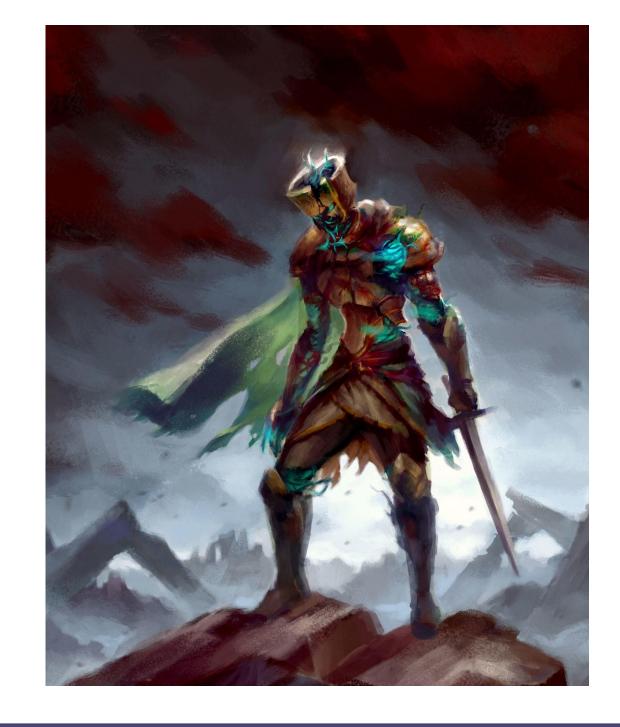
## Takeaway #4: Set the Rules of Your Virtual Reality

What is your game's Fidelity of Interaction?



#### Contention of Immersion in VR

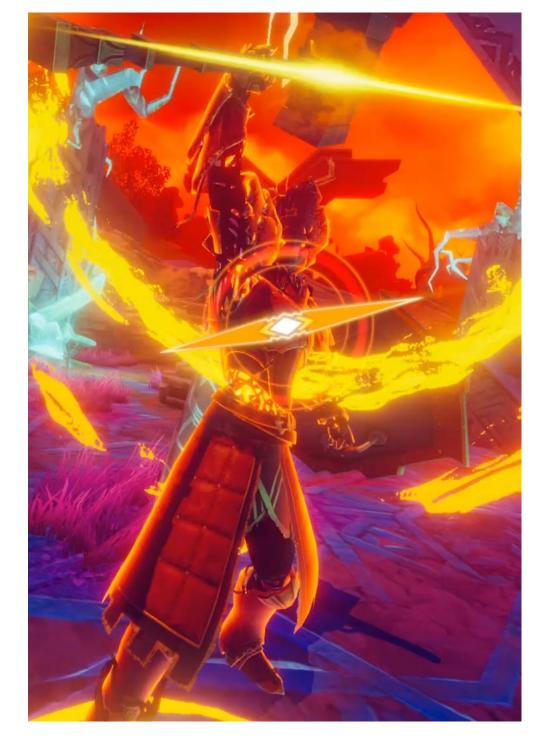
- Immersiveness and wide player action space of VR creates big expectations for fidelity and functionality
  - "I can put my hand on this...why can't I pick it up?"
- ❖ Almost impossible to meet every request for fidelity of interaction in VR
- During development, we started getting playtest requests for features we'd walked away from
- How can we preserve that sense of VR immersion without blowing our scope?





#### Rewriting Reality

- You Can't Drop the Sword was our first stake in the ground
  - > Players were no longer asking for holsters
- Based off of that, we established fundamental laws of our game world to reframe problematic requests
  - > Looting / Fighting are always separate
  - > Combat Arenas are small, exit is clear
  - > Weapons have "Super Abilities"
- ❖ Added up, this changes the players' expectation
  - ightharpoonup "I want to Throw Weapons"  $\Rightarrow$  "I want a Super that lets me throw my weapon"





### Establishing your (Virtual) Reality

- ❖ Decide on a 'Fidelity' of your world
  - Decide the smallest interaction that matters or is vital for your game
  - Consider cutting interactions that fall below that line in terms of gameplay importance
- ❖ Find ways to remove "wants" that you can't support from your playtesting
  - > Eg: If players want to pick up enemy weapons, make them dissolve

#### CAUTION

Until You Fall still gets critiqued for being a VR game with a "narrow" featureset







#### Takeaway #5: Incentivize the Fantasy

Make the fun way to play the best way to play

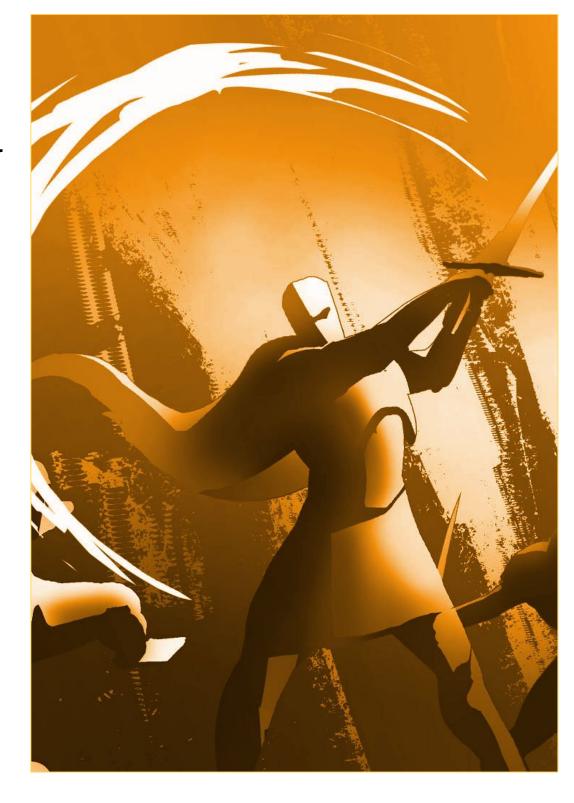


#### It's Not Dumb if it Works

- Players (Adults, Teenagers) can feel silly play acting in VR
- ❖ Fatigue and Focus will naturally push players towards the smallest, <u>effective</u> action
  - > The 'Wii Waggle' effect
- Built a lot of detection to (mostly) shut down waggle strategies
  - > We changed the smallest **effective** action

#### Playtesters loved this

- Actually called it out specifically that they loved that they couldn't "cheese" the game
- > Players were much more likely to play-act with the game
- > Because if it's effective, it's not silly, it's *optimal*





#### Stats as Mechanical Incentives

- Designed Target Playstyles (Archetypes)
  - > Bruiser Hit Big
  - > Spellsword Mage-like
  - > Tactician Crowd Control
  - Rogue Mobile, Twitchy
- All playstyles needed to have multiple effective 'builds'
- Used Stats/Traits to make sure weapon use aligned with the fantasy of the weapon
- **❖** This will benefit all skill levels of play, not just the hardcore
  - Again: This is about giving players permission to play-act with the game





## Wrapping Up

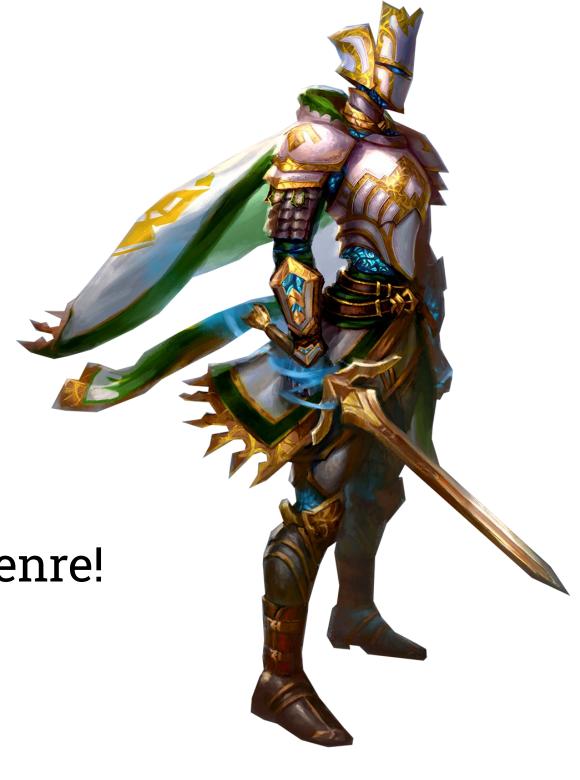
It's almost over





#### Our Five Big Takeaways

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- ❖ Be Wary of Secondary VR Interactions
- Know your Player Fantasy
- Set the Rules of Your Virtual Reality
- Incentivize the Fantasy
- ❖ BONUS: Consult with Others in the Space/Genre!
  - > Thanks Jason VandenBerghe!

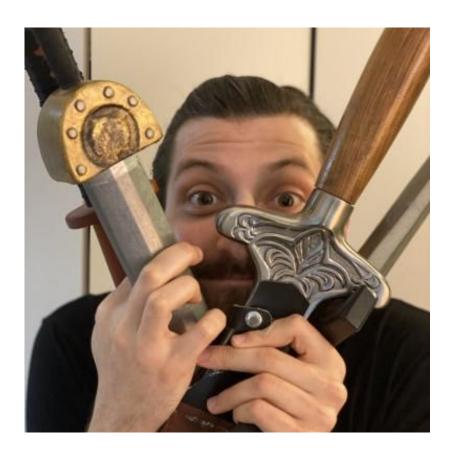




#### Thanks for Listening!



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