GDC

Weaving 13 Prototypes into 1 Game: Lessons from 'Edith Finch'

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GAME DEVELOPERS CONFERENCE" | MARCH 19-23, 2018 | EXPO: MARCH 21-23, 2018 #GDC18



Weaving 13 Prototypes into 1 Game: Lessons from 'Edith Finch'

Our team

- Q

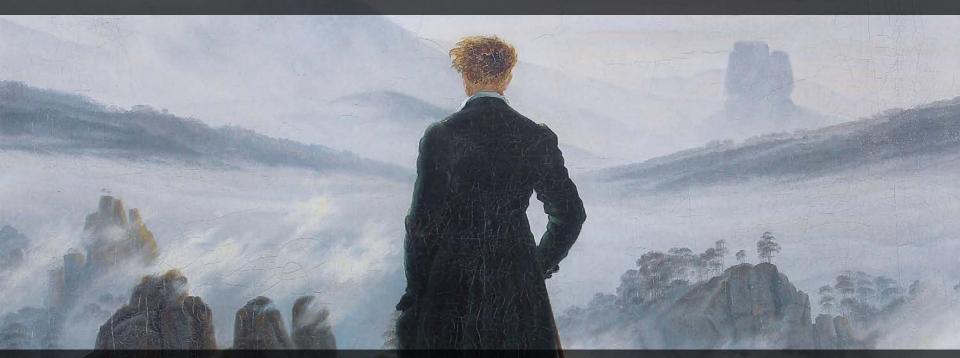
About the game

- 13 short stories about a cursed family
- Each with unique, expressive gameplay
- Focused on evoking a feeling of the sublime

What I'll be talking about

Part 1: Our approach to experience designPart 2: Finding + communicating the feelingPart 3: Building prototypes

In other words: the unknown



And how to build something you yourself don't understand



Part 1: Our approach to experience design



Why is experience design hard?

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Attention!

In movies, plays, etc you get attention automatically

Games are more like this:

You've just given the player a gun
...and NOW you want to tell them a story?
Good luck with that



How do you fix that?

How do you create an emotional connection?

- 1. Don't give them a gun
- 2. Don't even try to tell them a story
- 3. Instead, create a world they want to explore, then give them tools to do that

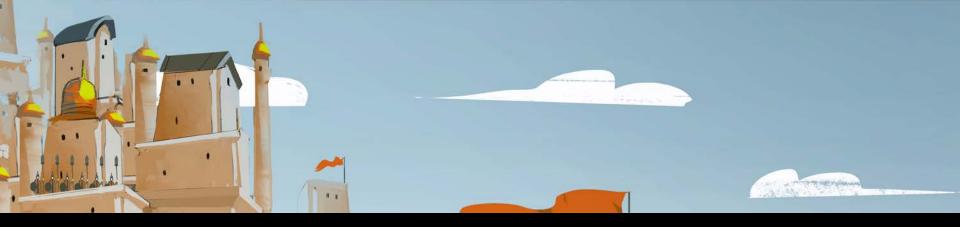
That's what our prototypes are trying to do: Create an emotional experience through gameplay

Use context instead of story



Start with a feeling, not a story

Feelings are flexible enough to survive
This game started as a scuba diving simulator
After we have the feeling, we focus on prototyping gameplay because it takes so many iterations
We focus on story last and rewrite it all at the end



Part 2: Finding + communicating the feeling

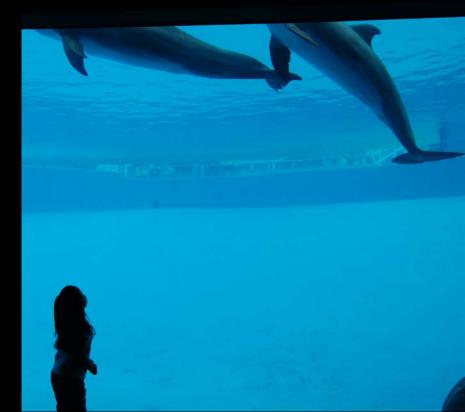


First, define the "feeling"

Boil it down to 1-3 words On Edith Finch it was "sublime + intimate + murky"

Then, surround yourself with that feeling

- Read/watch/play references
- Listen to music + soundtracks
- Wallpaper your office
- Update your desktop background



Our first mood board



The Nightmares of Edith Finch

The feeling is the direction you want to sail

But don't bother making a map! It's too hard, too brittle, too boring

Your direction helps you identify practical goals

For us, that became guidelines like:

- Scenes in nature
- Nested stories and unreliable narrators
- "sublime" turned into "overwhelmed"





How do you share this with the team?

- Documents are for you
- (no one reads them, but they help late arrivals)
- Each department has their own language
- (and in our case, their own task tracking tool)
- Objects in motion require fewer meetings to explain

What about sharing constant changes?

Designers see people playing often, for other departments try:

- Show + Tell every Friday
- **Dogfooding (playing as a team)**
- Watching playtests (as a team)
- Showing at conventions

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	A	В	C	D	E	F	G	Н	Ļ	
1	Done	Pri	Name	Notes	Epic	Location	Department	Asignee	Jira	Time
2	done	4	swap out ferry trucks with greg's truck	new taillights needed		tentacle		b		
3	done	4	pencil update	texture pass		beach		Ð		
4	done	4	Fix attic door mesh issue (seems to be using temp + movable mesh near top of stair)	Modularise walls/stairs for that area		2F		Ð		
5	done	1	fix floating triangle on kelp fronds	weird tri in corner of kelp? What is this?		shark swimming		e		
6	done	4	Shark Rolling Terrain update	Chris will update the terrain with hi rez landscape, we will re-paint foliage.		shark rolling		e		
7	done	4	Add bookshelves throughout the first and second floor so we have fewer loose stacks. Want the house to feel stuffed with books but a little less disorganized. Like an old library / bookstore:	A mix of built-in and constructed bookshelves				e		
8	done	4	Move door handles inwards			Foyer		g		
9	done	4	Add barricade to library door	Just so people don't try to go in it		Foyer		g		
10	done	4	Add Hookman-created gash along the side of the foyer stairs	Use the decal on walters floor?		Foyer		g		
11	done	4	Screw holes in Walter's door + damage to the frame, where the barricade used to be, and some debris around the barricade on the floor as if someone has pried it off with a crowbar.			WalterBedroom		đ		
12	Done	4	Text on first page of Edith's journal should be -closer together	Not sure why we have one line at the top of the page and then the other line at the very bottom. Feels like an unnatural use of space, especially for the first page.		Frontend		Theo		
13	Done	4	Peephole texture for library door barricade	We'll put Aalok's name on it, implying that he died in here. Picture can be any old library piled high with books-		Foyer		Theo		
14	Done	4	Vista islands should look less like cards (intersection with the water should not be a -hard line)			HouseBootstrap		Theo		
15	done	4	edd props to front porch(pots,boots,welcome mat , otc.)			House Walk-up				
16	done	4	darken grass value			House Walk-up				

Explore

Next step: Use prototypes to explore the feeling

- Possibilities are endless but unshippable
- Prototypes help you play with ideas. They're tools for thinking

What you're looking for in prototypes

When you're making something new, you don't have any good reference for what's going to work
The goal is to find what the game itself wants to be



What did our game want to be?

- Our stories became about people getting lost in their imagination because that's what happened to players
- Death felt like a failure until we embraced it, then "marching happily to your doom" became our game's signature moment



Part 3: Building prototypes



Tip #1/8: Notecards

• Problem: Your brain's RAM is limited

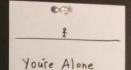
Personal + Intimate

- Solution: Get it out of your head
- Bonus: Engages your visual system



Motifs

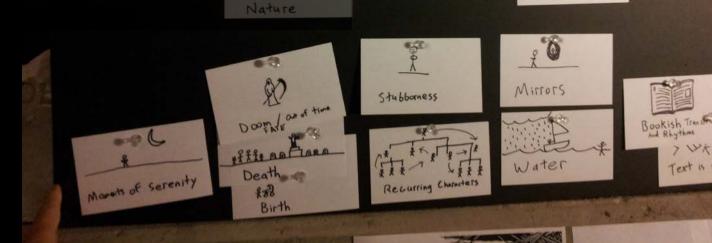
Audio is critical



Darkness 000

Murky, Faggy, blurry





Man VS Nature

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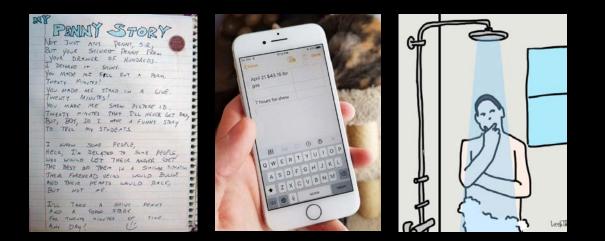
Exhibit B: Our list of stories

.00 120 -

 f_X Needs to be in the basement, so he's a good bridge between generations.

	-				
	A	В	С	D	E
1		Name	Туре	Gender	Notes
2	-	Hunger	Long	Woman	
3		2nd floor			
4	8	View-Master	Memento	???	
5		Swingset	Short	Man	
6	後着き	Surprise	Short	Woman	
7		Basement			
8	A.	Train	Short		Needs to be in the basement, so he's a good bridge between generations.
9		3rd floor			
10	manta	Self-portrait	Short	Man	
11	12	Bathtub	Short	Man	Don't want to have this too close to Hunger story,
12	P	Kite	Short	Man	
13		4th floor			
14	12 Cal	Flipbook (The King's story)	Memento	Man	
15	-	Coronation	Long	Man	
16		Finale			
17		Finale	Long	Woman	
18					
19					
20		Wishlist			

Tip #2/8: Write down all your ideas



"The mind is dyed in the color of the thoughts" *Marcus Aurelius*

Tip #3/8: Do it yourself

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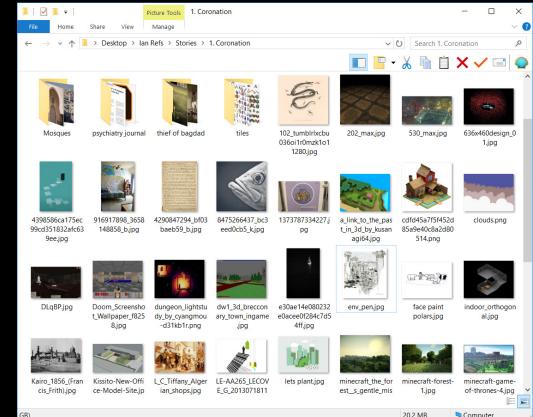


Tip #3/8: Do it yourself



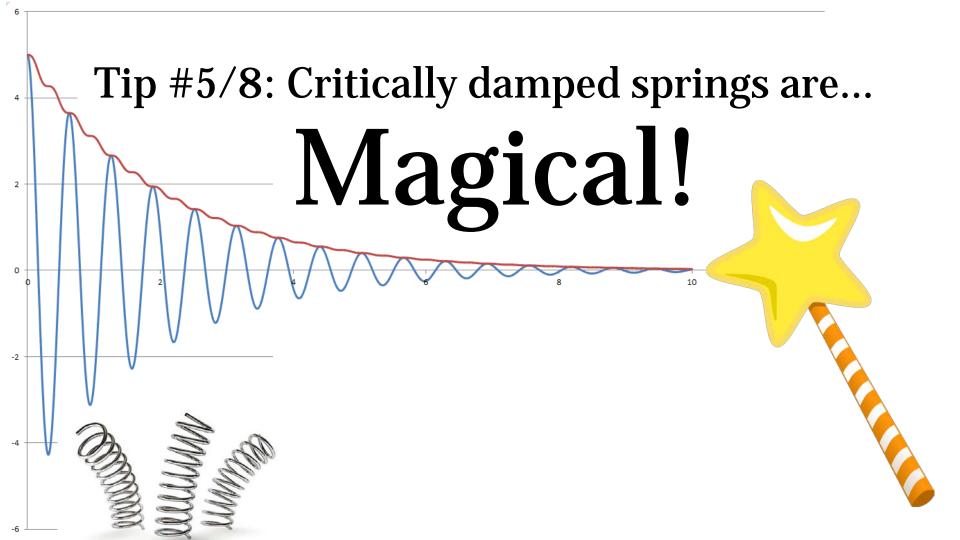
Tip #4/8: Start with the simplest tool

- **Reference hunting**
- Flickr, YouTube, etc \bigcirc
- Mood boards
- **Previz** animations
- Unity sketches
- **Bonus: no temptation to** Ο preserve prototype code
- **In-engine prototypes**



Tip #4/8: Start with the simplest tool

- Reference hunting
- Flickr, YouTube, etc
- Mood boards
- Previz animations
- Unity sketches
- Bonus: no temptation to preserve prototype code
- In-engine prototypes



We used them everywhere

- Edith's player camera
- Text animations
- Camera fades
- Owl camera
- Etc...

Springs make changes feel smooth

- They're very simple, which makes them:
- Easy to add, even in prototypes
- **Box.X** = Box.Spring.Tick(currentTime); // simple input + output

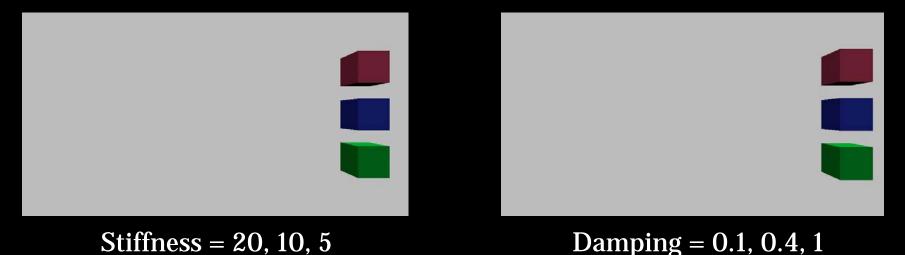


Linear

More math (and source code) at: http://www.ryanjuckett.com/programming/damped-springs

Springs are also easy to <u>tune</u>

- There's only two values: stiffness and damping
- Stiffness = how strongly it snaps back
- Damping = how strongly it oscillates / overshoot



Great for smoothing input

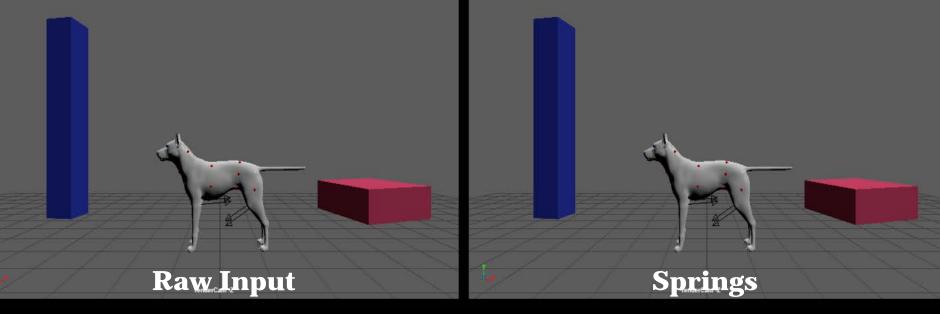






Like camera controls





Tip #6/8: Music is magical too

- Easier to fine tune a feeling with music than gameplay
- Players often aren't aware of it
- They just think: "I really like this now"
- You can change it very late in development



Tip #6/8: Music is magical too

• Especially true for Gregory's story



Tip #6/8: Music is magical too

• Especially true for Gregory's story

Tip #7/8: Use playtests to remove obstacles

Many design issues can be fixed by brute force playtesting!

- Ignore suggestions
- Look at where they're looking
- If they repeat anything, that's bad. They're stuck
- Some people are idiots, don't worry
- Larger tests help get a collective read; 3-5 players works well
- Playtest at conferences, eg GDC

Frustration obliterates atmosphere

Unless your game is about frustration...

- Embrace dynamic difficulty
- Support more than one way to do things
- Help the idiots



Tip #8/8: Keep changing everything until the end, AKA...

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- You finally understand what you're making
- You finally have the tools to do it
- Hopefully you know what's unlikely to explode
- Note: the window does get smaller over time...

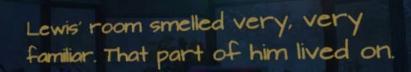
A Tale of Three Miracles



Miracle #1/3: We rewrote half of Edith's VO in the last week Whatever Mitton had found in the Whatever Mitton had found in the Mouse, Mom didn't want it getting at

Miracle #2/3: Redesigning every bedroom, again

• The last bedroom we designed showed us how all the others should be made



• We spent 12+ months floundering



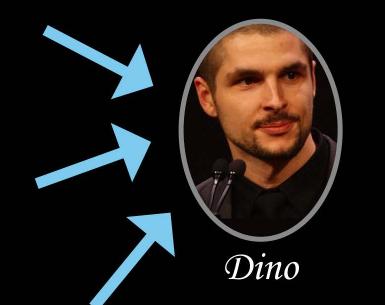
- We spent 12+ months floundering
- Then we had a playtest with a pair of smart designers





Jenova

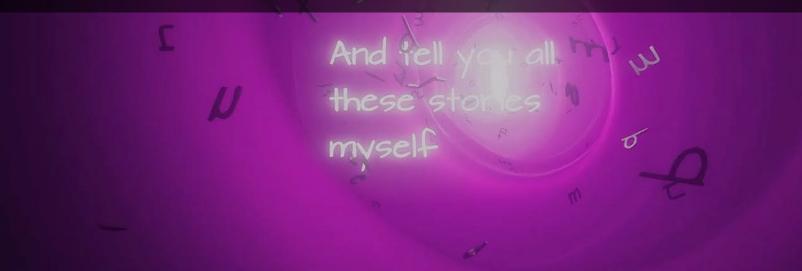
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- One of them asked, "What if there was a birth?"





Jenova

- We spent 12+ months floundering
- Then we had a playtest with some smart designers
- One of them asked, "What if there was a birth?"
- Oh.... right.



How did they do it?

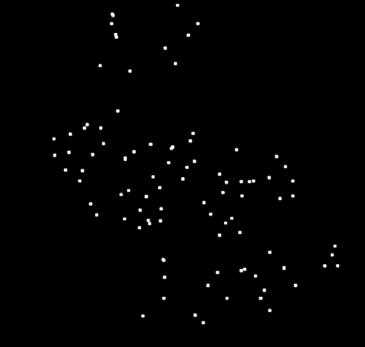


How did they do it?

- HINT: They're not geniuses
- (though I guess they could be, for all I know)



It's the magic at the end of projects



It's the magic at the end of projects

...finally, you've got enough to connect the dots

It's the <u>magic</u> at the end of projects ...finally, you've got enough to connect the dots (though it helps to have fresh eyes)

Thank you, thank you, thank you!

- To our team
- To our publishers
- To the press
- To the Edith Finch speedrun communityTo all our fans

Hi, I am from Hungary.. sry, for my bad english... I am 48, but look like 40 (on better days :)) and have a 16 old son too... After finishing the game we both were crying a bit, face to face in the sofa... :) Man usually cannot say thx for a crying, but we do now... thanks a lot, all of u..

We're hiring!

An Animation Programmer and a Lead Animator

GiantSparrow.com/jobs





Our next game is about "the enchanting beauty of animal locomotion"

Other Edith Finch talks at GDC

& A

The Distributed Art Direction of 'Edith Finch' by Chelsea Hash, our lead technical artist

The Narrative Innovation Showcase 2018 *by Chris Bell, our lead designer*

Foolproofing the Controls for 'Edith Finch' by Evan Rogers, our gameplay programmer