

MARCH 18-22, 2024 SAN FRANCISCO, CA

'Saturnalia' Postmortem

Pietro Righi Riva Studio Director at Santa Ragione





Wait a second, who are you?













End of 2016: Looking for a new project

- How to fund a prototype?
- What should it be?
 - Safe
 - Interesting
 - Doable



Early 2017: Creative Europe Programme

- 50% EU advance on prototype costs (now 60%)
- 45% from a co-production partner
- Detailed 50-page documentation
 - Design / Art Direction / Narrative Themes
 - Production Plan



Early 2017: Submitting 'Matchbox'

- Art directed by Marta Gabas
- Multi-character, non-linear
- Dark procedural monster maze
- Per-character **political horror**
- **Diegetic** puzzle progression





\$130k Secured

for a PC + Mobile Demo to pitch at GDC 2018



Vertical Slice Challenges

Defining **approach and technology** for:

- 1. Procedural Environments
- 2. Giallo Visuals
- 3. Dynamic Narrative

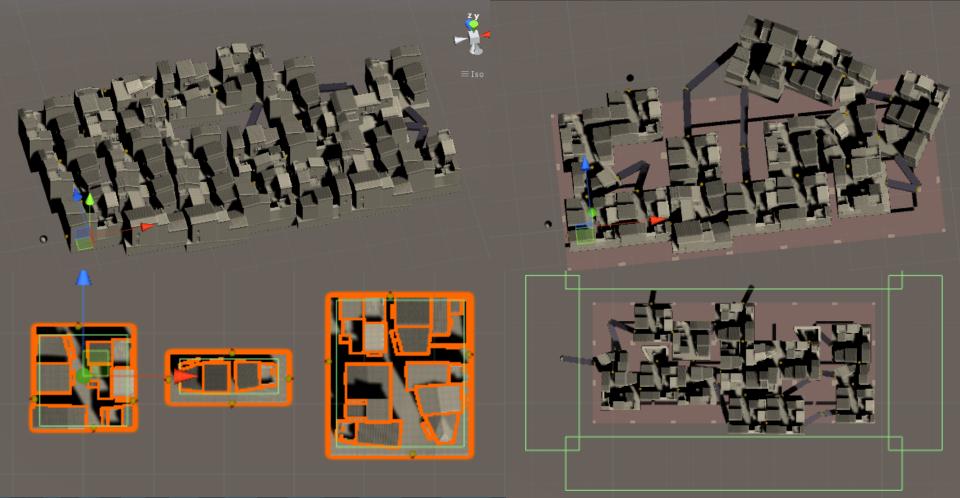




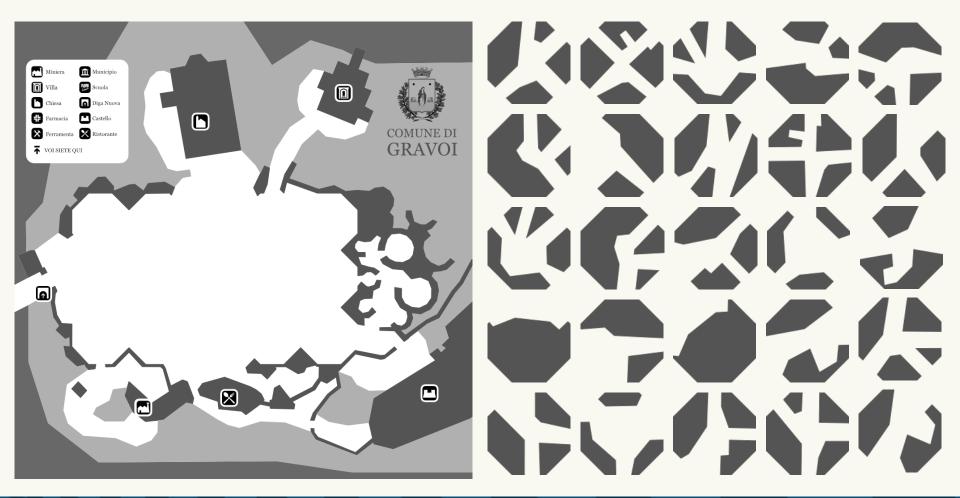
Challenge 1: Procedural Environments

- Node-based pathfinding for touch controls
- Corridors / rooms take wrong for medieval town
- Octagonal tile-based solution by Lorenzo Silva

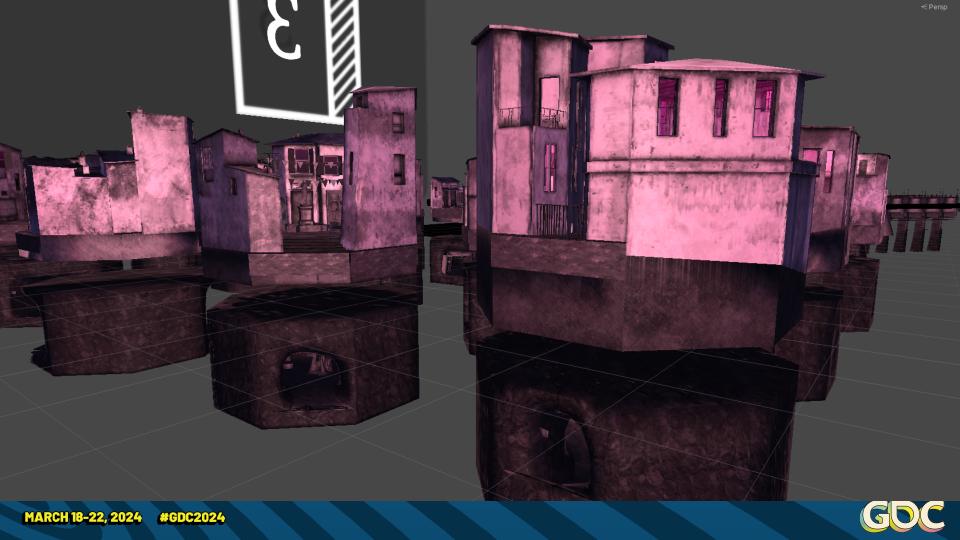


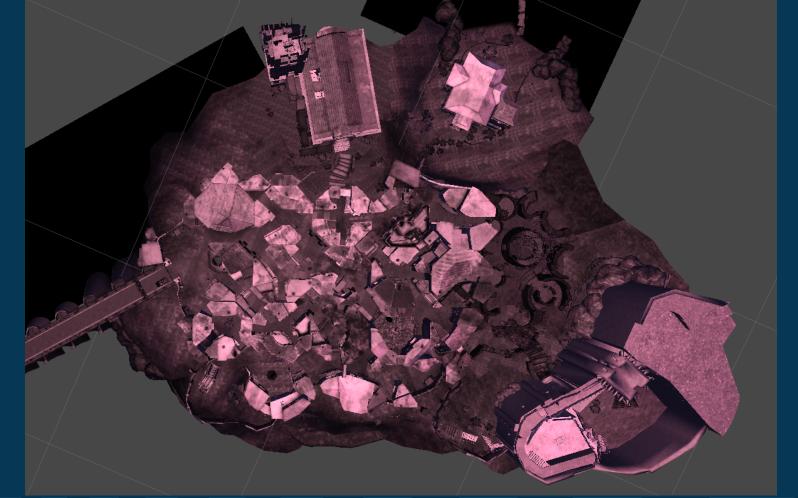


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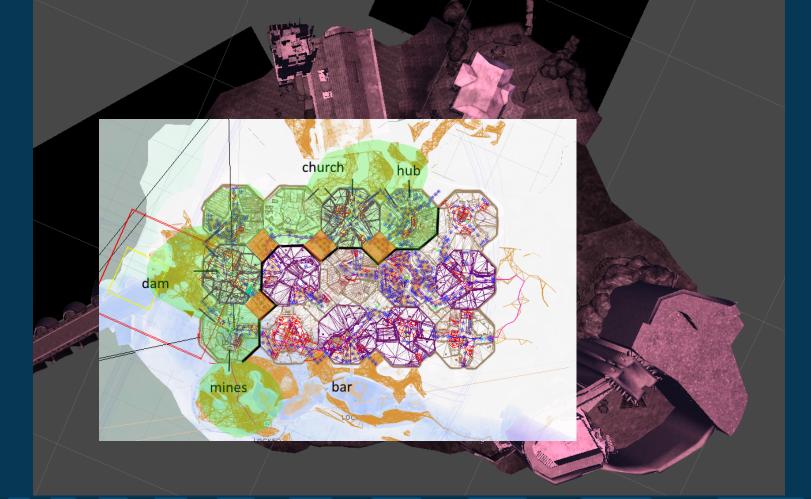














Challenge 2: Giallo Visuals

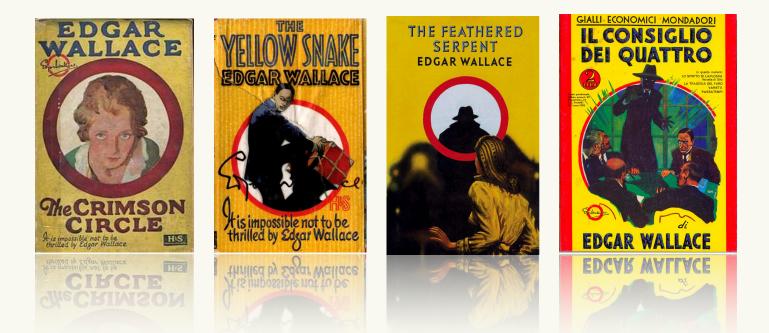
- Based on 70s Italian horror:
- Rendering techniques:
 - Black and white textures



- Arbitrary palettes mapped on angle of reflection
- More color via light, particles, and post-processing



Small Digression: What is "Giallo"?















Challenge 3: Dynamic Narrative

- Hannah Nicklin's structure for storylines
- Federico Corbetta Caci's story treatments
- Non-linear narrative design technical implications:
 - Dialog alternates for characters / events order
 - Per-storyline clues collection UI



January 2018: Location Scouting

- With Fondazione Sardegna Film Commission
- Seven days on the island to collect:
 - Audio / Video / Photo / Motion / Interviews





UNIONE EUROPEA Fondo europeo di sviluppo regionale REPUBBLICA ITALIANA



REGIONE AUTÒNOMA DE SARDIGNA REGIONE AUTONOMA DELLA SARDEGNA

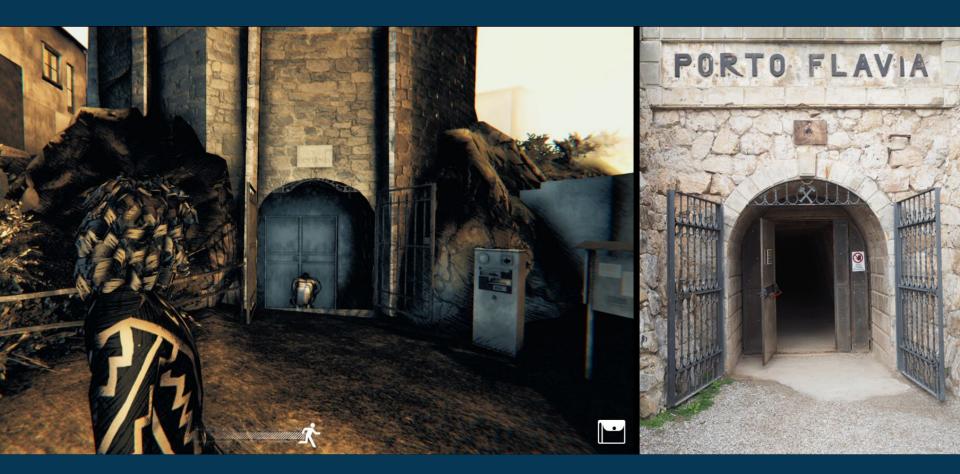




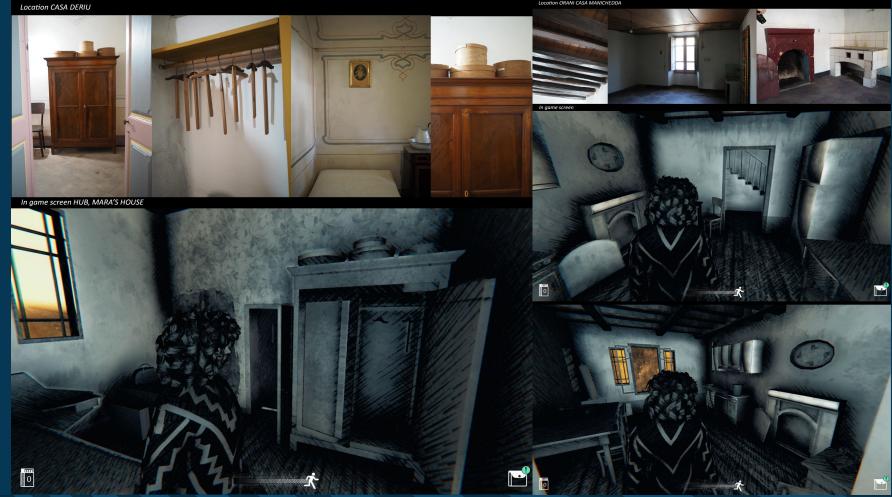








Location ORANI CASA MANICHEDDA



March 2018: GDC Pitches

- Shown: 20-minute first-person mobile/PC demo
- Ask: **\$1m** plus marketing, ports, localization
- Promised 8 hours of gameplay with:
 - **5 procedural locations**, 15 puzzles, 10 storylines
 - 4 playable characters with 100s of dynamic lines



[PROTOTYPE VIDEO 1]







[PROTOTYPE VIDEO 2]







Rest of 2018: First Course-correct

After partners' feedback at GDC, we focused on:

- 1. Reducing Scope and Budget
- 2. Moving to PC / Consoles Target
- 3. Changing Perspective to 3rd Person
- 4. Defining a **New Creature** Design



1. Reducing Scope and Budget

- **\$500k total**, \$370k ask + \$130k we invested
- Defining the minimum viable product:
 - Only 1 creature and 1 procedural area
 - 3-hour playthrough
 - No voice acting



2. Moving to PC / Consoles Target

- Increased asset density, enhanced effects
- More geometry detail for characters (**not props**)
- Traditional controls complexity for gamers
- Everything-is-interactive paradigm



3. Changing Perspective to 3rd Person

- Avoiding the **generic indie FPS horror** look
- Camera management in **tight environments**
- Animations and IK for playable characters
- Active NPC framework almost for free

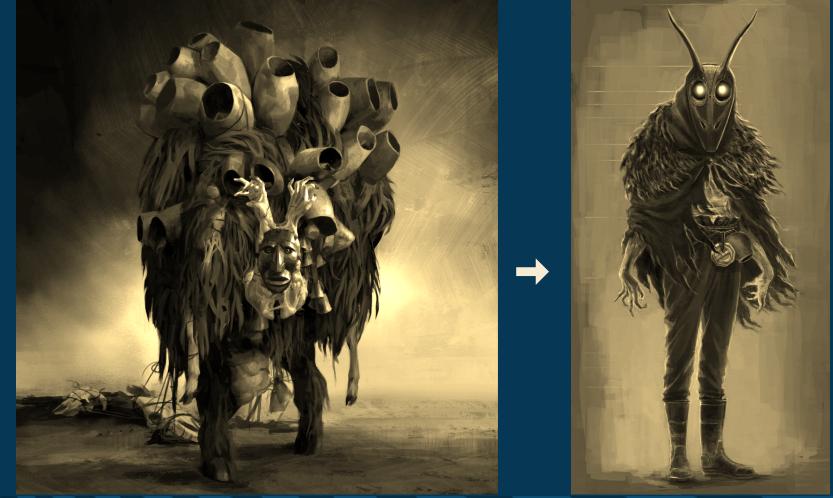




4. Defining a New Creature Design

- Avoid the goofiness of the original design
- Choose humanoid design for NPC compatibility
- Apply the uncanny valley twitchy animation trope
- Design **an original mask** as the game's icon







2019: Additional Changes

After feedback from over 50 publishers, we decided on:

- 1. Rewriting **Converging Storylines**
- 2. Applying a New Rendering Style
- 3. Designing a "Recollection" Map
- 4. Pacing Creature Encounters Dynamically



1. Rewriting Converging Storylines

- Characters merge, halving their number
- Places, events, items relevant to more characters
- Use of a linear scenario play of a non-linear game:
 Simulating how characters and players learn info
 Highlighting illogical progression steps



2. Applying a New Rendering Style

- Faux-rotoscope animation style
- Screen-space + mesh material **etching effect**
- Faking high resolution textures with noise
- Fake volumetric fog to read depth
- Asset additions based on **3 pillars: horror, Italy, 80s**



Small Digression: Twitter Epiphany



Mike Ferraro @MFerrar0

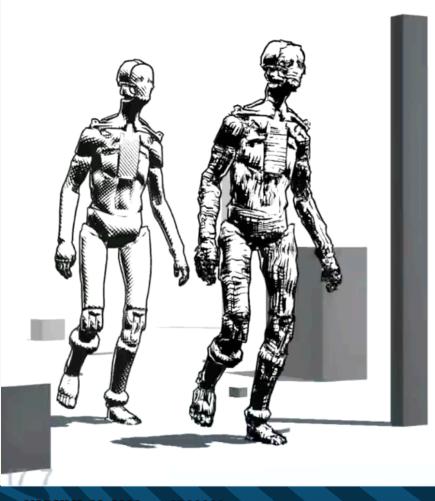
Trying out some ideas for making realtime toon shading more convincing. Variable framerate, noise, halftoning, flat lighting model... High res 60fps on youtube: youtu.be/xmS5aQEA1Xw #madewithunity #gamedev

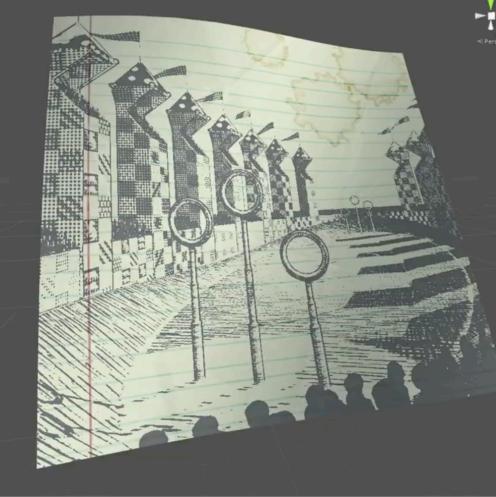
#gamedev

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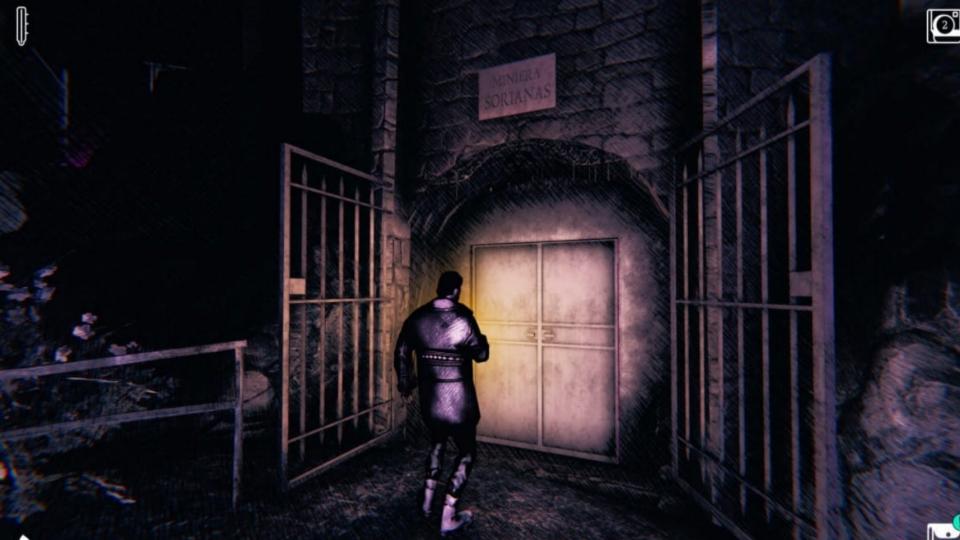
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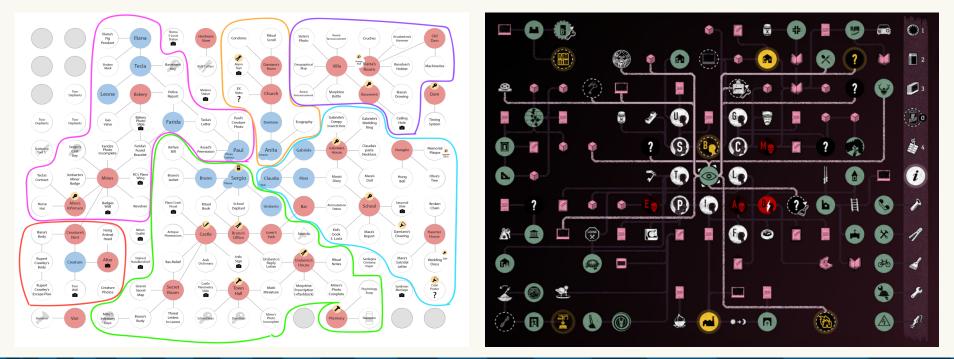


3. Designing a "Recollection" Map

- Interconnected nodes map, incorporating:
 - **Locations** (rooms, buildings, POIs)
 - Inventory (tools, key items, consumables)
 - **Clues** (documents, 3D props, photographables)
 - **Characters** (playable, NPCs, mentioned)



3. Designing a "Recollection" Map





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4. Pacing Creature Encounters Dynamically

- States with unique abilities and sets of parameters
 - Passive, **non-aggressive encounters**
 - Running, screaming, crawling variants
 - More audio-visual feedback to strategize
- Changes **based on player status** and story progress



[ANNOUNCEMENT TRAILER VIDEO]

First half of 2020: A lot Happening All at Once

- Epic Games Store exclusive deal
- Receiving four publisher offers
- Pandemic starts!
- Team's **burnout sets in...**



Second Half of 2020: Extended Playtests

- Alpha game playable start to finish
- Firsts tests outside of team and friends
- Feedback:
 - Orienteering is too **difficult**
 - Objectives are too unclear



First Half of 2021: The Final Overhaul

Based on playtesters' feedback, we:

- 1. Reworked Navigation Aids
- 2. Added Mission Threads
- 3. Wrote Characters' Flashbacks

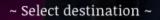


1. Reworked Navigation Aids

- Interactive maps:
 - Route memorization and pointing feature
 - Companion NPCs walking to destination
- New character ability:
 - Remembering POI's and how to reach them
 - Realtime map of the mines







You — Church Villa Mines Entrance





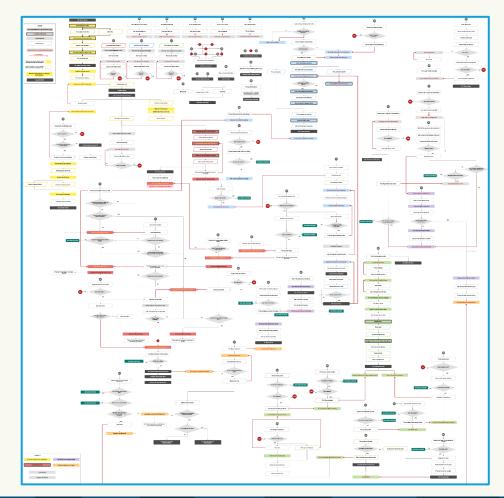
2. Mission Threads

- Long term objectives, e.g. "In search of Paul's family"
 - Separating missions into narrative tracks
 - Reviewing mission sequences
- Additional **mission details** to guide players
 - E.g. "Searching the villa would be a good start."

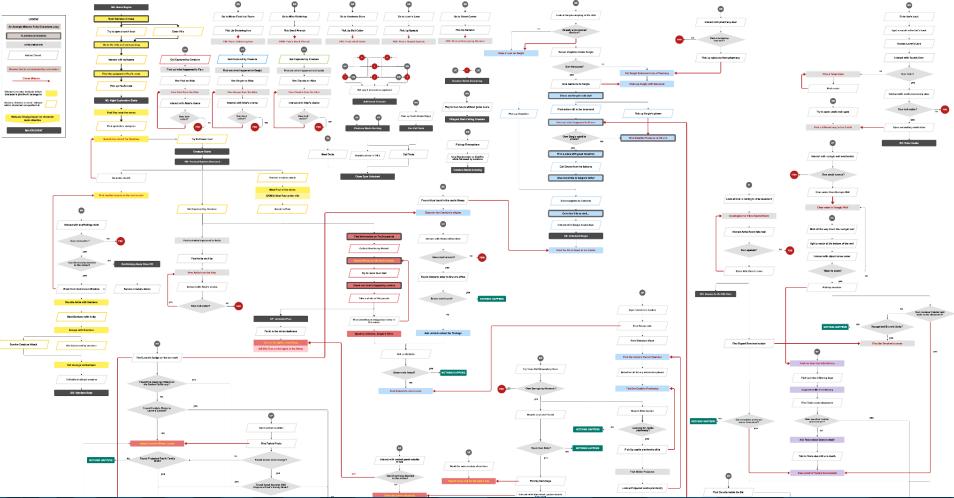


The Flowchart

- All missions
- All interactions
- All events
- All combinations

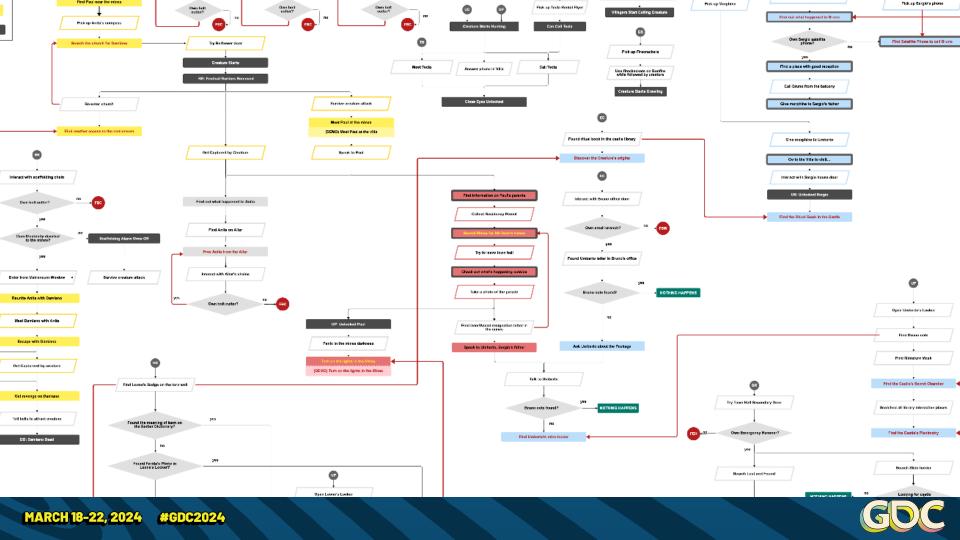


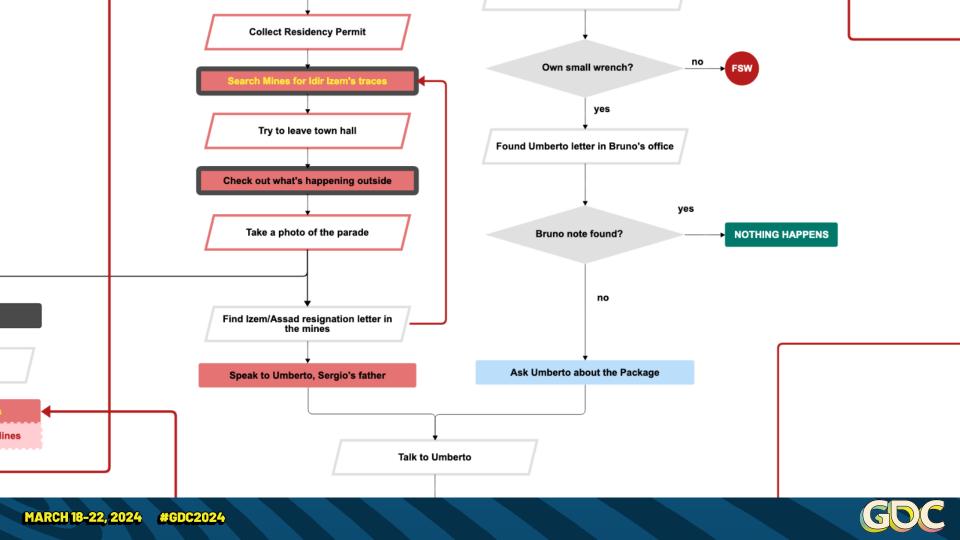




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3. Character's Flashbacks

- Showing normalcy to highlight horror
- Giving players:
 - Context to **characters' motivations**
 - Tutorials to characters' abilities
 - A break!



Second Half of 2021: Self Publishing

- Buying back publishing rights
- Getting platform support
- Finding a new porting studio
- Hiring translators and a PR agency



[GAMEPLAY VIDEO]

E

Halloween 2022: First Launch

- 9-hour game, 5 Platforms, 5 Languages, 35k words
- 7m downloads / 7k players on EGS
- 2k copies in the first month on console
- Wonderful reviews
- Tepid reactions from content creators



2023: Steam Launch

- New features: first person mode and photo mode
- Multiple Steam festivals participation
- 13k wishlists at launch
- Less than 1k copies in the first month



Today: Takeaways

- 1. Innovate in one field at a time
- 2. Budget for experimentation
- 3. Use friends' money at your own risk



1: Innovate in one field at a time

- Limit novelty to graphics, setting, OR gameplay.
- Worry about missing clear communicable hooks
- Retain genre-specific traits for recognizability



2: Budget for experimentation

- Subversive design cost grows exponentially
- Fallback solutions should not compromise concept
- Extending development time risks irrelevance



3: Use friends' money at your own risk

- Evaluate the impact of your sense of guilt
- Preserve the ability to make painful decisions
- Calculate the cost of design direction compromises



TODO: Closing Remarks, end on a positive note!



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Thank you!



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