![A picture containing building, outdoor, dark, sunset

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4REERXhpZgAATU0AKgAAAAgABAE7AAIAAAATAAAISodpAAQAAAABAAAIXpydAAEAAAAmAAAQ1uocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFdpbGxpYW0gV2hpdGVob3VzZQAAAAWQAwACAAAAFAAAEKyQBAACAAAAFAAAEMCSkQACAAAAAzQzAACSkgACAAAAAzQzAADqHAAHAAAIDAAACKAAAAAAHOoAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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|  | *William Whitehouse 19019239* |

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# Design Patterns Applied in the Level

## Guiding Light

### What is this pattern?

This pattern is when light (e.g. lamps, torches, glowing objects) guide the player to a location, objective or item.

### Application in the level?



Figure – Guiding Light Pattern Application

### Was it effective?

This implementation was effective, without the torches the level would be too dark to see where to go. Players would not explore certain areas if it didn’t include torches as they are hidden behind buildings. This pattern was especially effective on the final objective (run to your boat) under the time constraint as the fog’s density increases making it difficult to see anything in front of you.

## Landmark

### What is this pattern?

This pattern is a large object in a scene that acts as a visual “point” to the player, it can represent an important area, a goal, or objective. Landmarks are a design pattern that is used in other patterns, such as the [Spiral](#_Spiral) pattern.

### Application in the level?

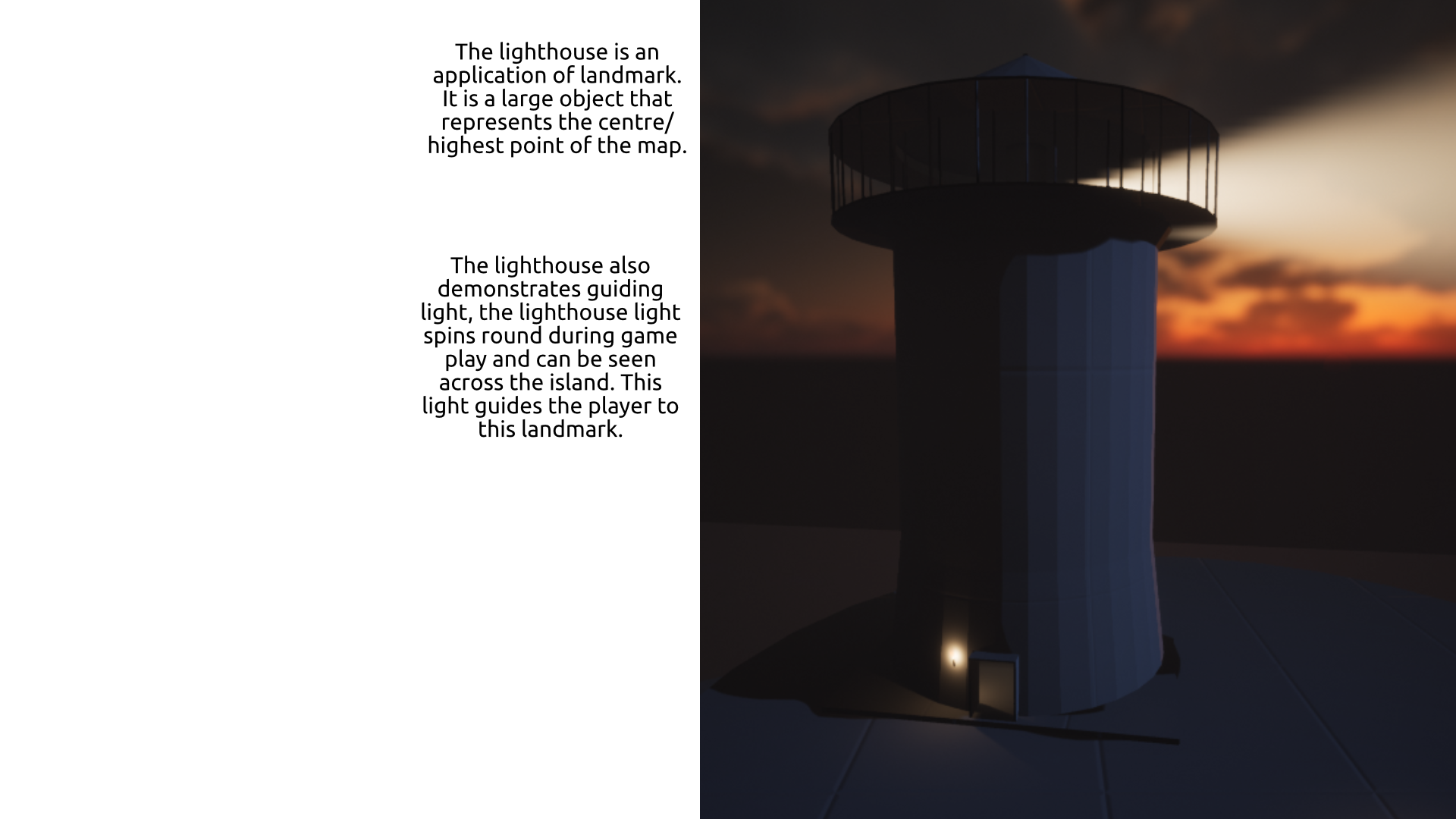


Figure – Landmark pattern application

### Was it effective?

The lighthouse landmark pattern is moderately effective as it is a large object designed to act as a centre point but at far edges of the island it is not visible, and neither is the light. Also, the fact the lighthouse is on top of a high platform (Spiral) it is even harder to see.

## Spiral

### What is this pattern?

This pattern consists of a large piece of land or a mountain with a spiral ramp leading from the bottom to the top. It is designed to allow the player to easily get to a high area and for a landmark in the level as it is very high.

### Application in the level?

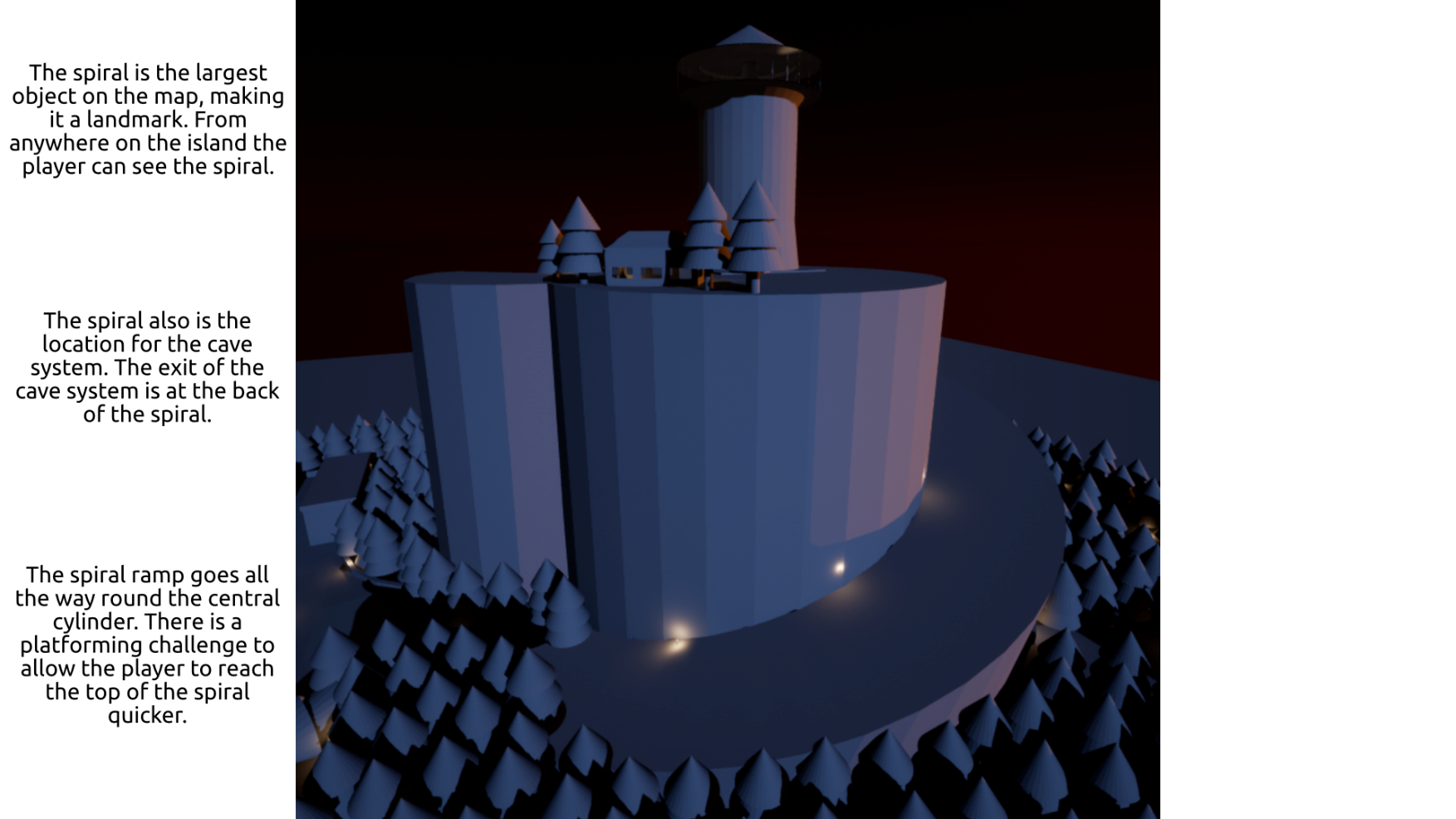


Figure – Spiral Pattern Application

### Was it effective?

The spiral was effective, it served both as a landmark and centre point for the map. The spiral was also effective for including all the caves.

The only issue with this implementation is the aesthetics, the spiral doesn’t look very natural and doesn’t blend in with its surroundings. It’s also very large and there are no other height differences or elevations throughout the map, the only elevation is the spiral.

## Alternate Path

### What is this pattern?

This pattern contains multiple paths the player can take to end at the same location, this can include physical paths/areas but also includes different methods of completing an objective or puzzle.

### Application in the level?

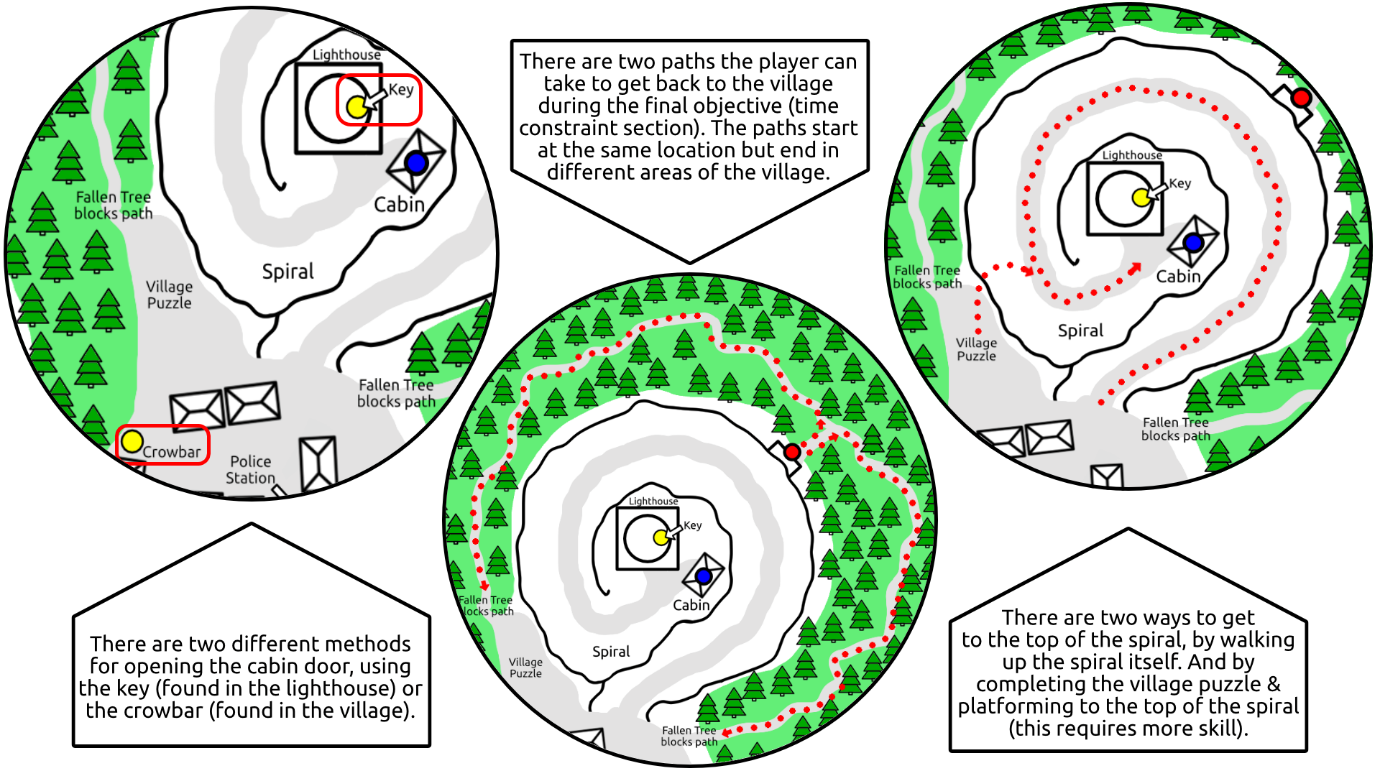


Figure – Alternate Path Application

### Was it effective?

The alternate path pattern was very effective, it made the level more interesting and less linear. It also gave the player a choice, and the level could support many playthroughs each with their method.

To improve the methods for opening the cabin door, more methods could be added to add more alternate paths. For example, the player could pick up a rock and smash a window get inside.

## Backtrack

### What is this pattern?

This pattern is whenever the player returns or plays backwards an area of a level, for example, using a path to get into a village and then using the same one to exit or to escape a cave or dungeon.

This also applies to areas in the level, for example, the player could find a puzzle which has the answer to something that was in a previous area of the level. This would force the player to revisit those areas and explore and traverse them backwards.

### Application in the level?



Figure – Backtracking Pattern Application

### Was it effective?

The backtracking was effective, it allowed the player to revisit a big area of the map with different lighting and with new abilities unlocked.

# Issues

## Unreal Crash - Lose Cinematic

### Where is the issue?

The entire game and Unreal Editor (If not playing in a build) will crash when playing the lose cinematic. This only occurs when losing the game, the player could win the level and the winning end cinematic will play normally and the game will quit. This is what makes this crash strange and very difficult to debug.

### What is the issue & What action has been taken to fix the issue?

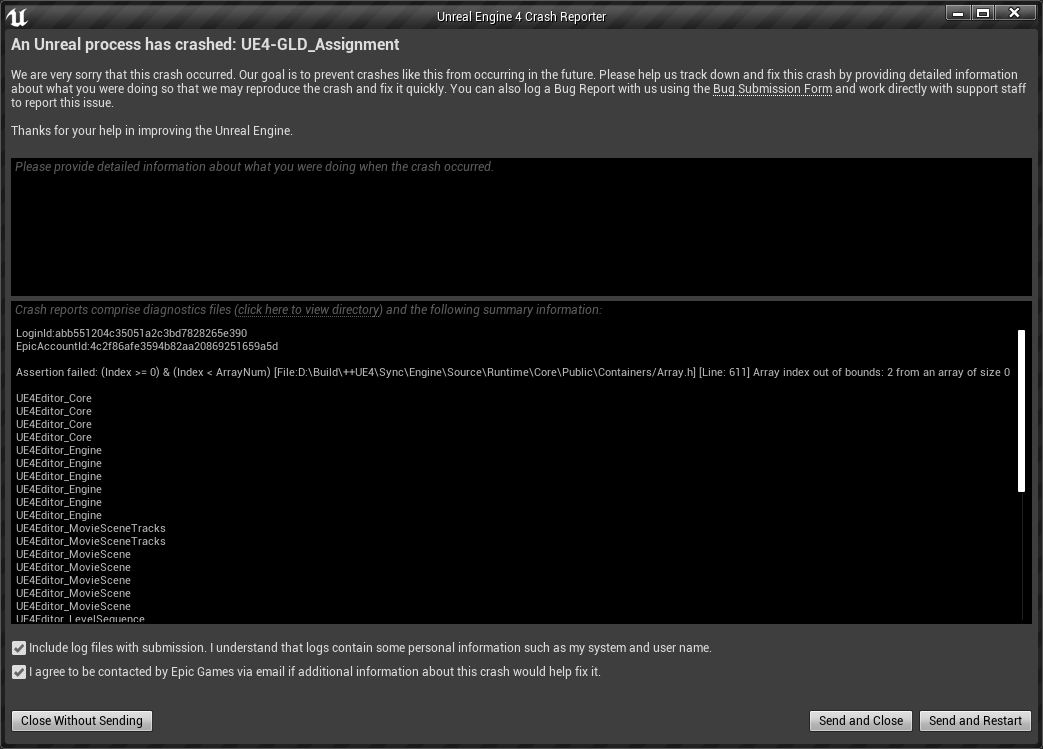


Figure – Unreal Crash Reporter

The Unreal crash reporter (Figure 6) shows us that the crash is caused by an array being accessed out of bounds. Unfortunately, this is all the information that the crash reporter shows us, going into the crash logs it shows us what array was accessed out of bounds.

LogScript: Warning: Script Msg: Attempted to access index 1 from array 'Inventory' of length 1 in '/Game/CharacterController/Blueprints/  
ThirdPersonCharacter.ThirdPersonCharacter\_C'!

Figure – Unreal Crash Log

After viewing the log (Figure 7) it shows us that the array `Inventory` is being accessed at index 1 when its length is 1. This should be an easy issue to fix but looking at the blueprint the `Inventory` array is in it shows us that accessing the array like this should not be possible, and it doesn’t get accessed during the final cinematic – where the crash occurs. Figure 8 shows every instance the `Inventory` array is accessed or used in the blueprint, and next to it is text explaining how this instance cannot cause a crash.

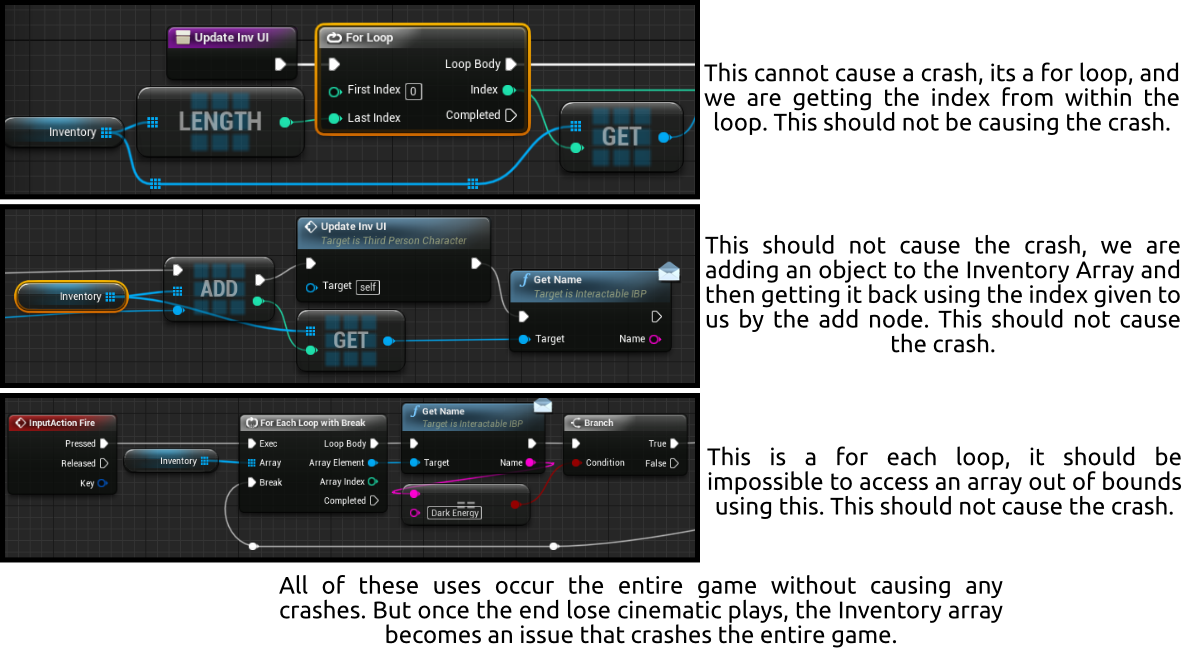


Figure – All instances of the Inventory Array being used and how it doesn’t cause the crash

### Can this issue be fixed?

I don’t know a fix for this issue and don’t believe it’s something I can attempt with very little time remaining until the level hand in deadline.

## Niagara Particles – Don’t Appear in Final Build

### What & Where is the issue?

This issue only affects builds of the level, the Niagara particle systems don’t appear, they still cast shadows and are a part of the level, they just don’t render.

The Niagara particle systems include:

* Dark Energy
* Player’s Projectile
* Monster
* Low Fog
* Portal

### What action has been taken to fix the issue?

I have conducted research online about this issue and cannot find a solution, it is most likely a bug in this version of Unreal and the Niagara particle system and is fixed in a more up-to-date version.

### Can this issue be fixed?

No, this issue cannot be fixed in this version of Unreal, but possibly can be fixed by updating which version of Unreal is being used.

# External Assets Used

This is a table of all the external assets used in the level. To be clear: no logic related assets, e.g. blueprints, materials, particle effects, any asset that was “complete”, etc. were used in the level. Except for the Character Controller as this asset was part of the Unreal template the level uses; however, the Character Controller’s blueprints, and logic have been heavily changed (changes & additions).

|  |  |  |  |
| --- | --- | --- | --- |
| Asset | Type | Name & Link | Author |
| Lightning 01 | Sound FX | [Thunder 06](https://www.soundsnap.com/thunder_06_wav_0) | [WW Audio](https://www.soundsnap.com/user-name/willswills) |
| Lightning 02 | Sound FX | [Thunder with rain rolling crisply and slowly in the distance](https://www.soundsnap.com/thunder_with_rain_rolling_crisply_and_slowly_in_the_distance) | [Airborne Sound](https://www.soundsnap.com/user-name/airborne_sound) |
| Lightning 03 | Sound FX | [Thunder with rain bursting and grumble in the distance](https://www.soundsnap.com/thunder_with_rain_bursting_and_grumble_in_the_distance) | [Airborne Sound](https://www.soundsnap.com/user-name/airborne_sound) |
| Lightning 04 | Sound FX | [Slow lightning with background torrential rain](https://www.soundsnap.com/node/58345) | [Airborne Sound](https://www.soundsnap.com/user-name/airborne_sound) |
| Lightning 05 | Sound FX | [Thunder with rain rolling and crackling hesitantly in the distance](https://www.soundsnap.com/thunder_with_rain_rolling_and_crackling_hesitantly_in_the_distance) | [Airborne Sound](https://www.soundsnap.com/user-name/airborne_sound) |
| Rain 01 | Sound FX | [Rain - medium swell - some drops on metal - Neumann RSM 191](https://www.soundsnap.com/rain_medium_swell_some_drops_on_metal_neumann_rsm_191) | [Pole Position Production](https://www.soundsnap.com/user-name/pole_position_production) |
| RocksCollapsing | Sound FX | [Huge stone trap door - releasing rocks and falling-1](https://www.soundsnap.com/huge_stone_trap_door_releasing_rocks_and_falling_1) | [Olivier Girardot](https://www.soundsnap.com/user-name/olivier_girardot) |
| StoneDoorOpening | Sound FX | [Door - stone 4](https://www.soundsnap.com/door_stone_4) | <Soundmorph> |
| Portal\_Sound\_01 | Sound FX | [Sci-Fi Warp Sound 1](https://www.soundsnap.com/sci_fi_warp_sound_1_wav) | [Stormwave Audio](https://www.soundsnap.com/user-name/stormwave_audio) |
| Alien\_Screech | Sound FX | [Alien screeches sci fi horror Nightingale Music Productions](https://www.soundsnap.com/node/110861) | [Nightingale Voice Box](https://www.soundsnap.com/user-name/nightingale_voice_box) |
| Character Controller | Blueprints Meshes Animations Textures Materials | Unreal Third Person Template | Epic Games |
| Blender Meshes *File:*  *Content\Meshes\ BlenderMeshes* | Meshes | Custom “Programmer Art” meshes designed for this level | William Whitehouse |
| Fire\_PS | Texture | Unreal Example Assets:  M\_Fire\_SubUV,  M\_Radial\_Gradient,  M\_Smoke\_Sub\_UV | Epic Games |
| Rain\_basecolor | Texture | [Rain Drops on Screen Effect - (UE4 Tutorial) – Youtube Video](https://www.youtube.com/watch?v=CM-9hqWC0kM) | [UnrealCG](https://www.youtube.com/channel/UCb7A3-CWHgy5EejbfA9wbmw) |
| Cloud\_M | Texture | Unreal Example Assets:  T\_SmokeSubUV8x8 | Epic Games |
| Key\_M | Texture | Unreal Example Assets:  T\_Metal\_Gold\_D,  T\_Metal\_Gold\_N | Epic Games |
| Paper\_M | Texture | Unreal Example Assets:  PaperDiffuse,  PaperNormal | Epic Games |
| StoneBrick\_M | Texture | Unreal Example Assets:  T\_Brick\_Clay\_Old\_D,  T\_Brick\_Clay\_Old\_N | Epic Games |
| StrawRoof\_M | Texture | Unreal Example Assets:  CASC\_Cross,  T\_Water\_N,  water\_n | Epic Games |
| MonsterFX\_M | Texture | Unreal Example Assets:  T\_Metal\_Gold\_D,  T\_Metal\_Gold\_N | Epic Games |
| Water\_M | Texture | Unreal Example Assets:  T\_Water\_M,  T\_Water\_N,  water\_n | Epic Games |
| WoodenDoor\_M | Parent Material | Unreal Example Assets:  M\_Wood\_Floor\_Walnut\_Worn | Epic Games |
| Starter Content | Content | [Unreal Example Starter Content](https://docs.unrealengine.com/en-US/Basics/Packs/index.html) | Epic Games |
| Crouch Animations | Animation | [Animation Starter Pack](https://www.unrealengine.com/marketplace/en-US/product/animation-starter-pack) | Epic Games |
| Death\_2 | Animation | [Animation Starter Pack](https://www.unrealengine.com/marketplace/en-US/product/animation-starter-pack) | Epic Games |
| Pushing Animation | Animation | [How to Push an Object with Animations | Movable Objects - Unreal Engine 4 Tutorial – YouTube Video](https://www.youtube.com/watch?v=5cfcaUP8rBo) | [Matt Aspland](https://www.youtube.com/watch?app=desktop&v=5cfcaUP8rBo) |
| Meshes *Folder: Content\Meshes\ Meshes* | Meshes | [Unreal Example Starter Content](https://docs.unrealengine.com/en-US/Basics/Packs/index.html) | Epic Games |