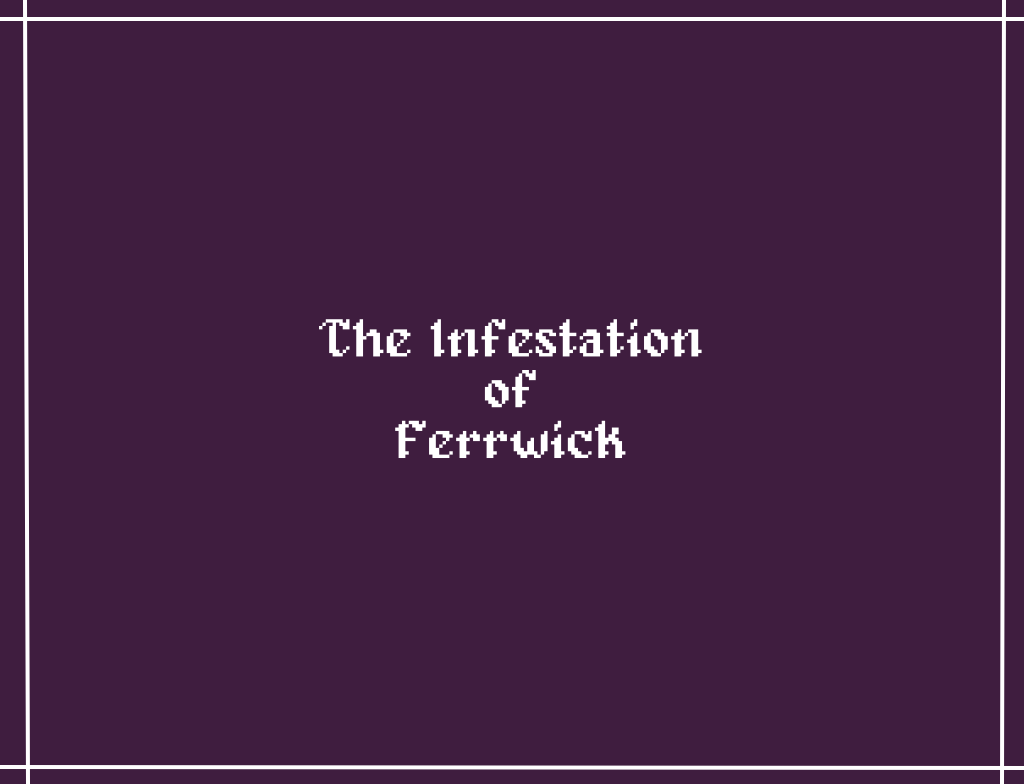
The Infestation of Ferrwick GDD



***‘Cleanse the Filth’***

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--- | |  | | Game Development Team Members    PRODUCER  Brandon Galarneau    PRODUCTION MANAGER  Brandon Galarneau    PRODUCTION COORDINATOR  Brandon Galarneau  GAME DESIGNERS  Brandon Galarneau  SYSTEMS/IT COORDINATOR  Brandon Galarneau  PROGRAMMERS  Brandon Galarneau  TECHNICAL ARTISTS  Brandon Galarneau  AUDIO ENGINEERS  Brandon Galarneau  UX TESTERS  Brandon Galarneau |

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# 1 Game Overview

Title: The Infestation of Ferrwick

Platform: PC Standalone

Genre: Action Platformer

Rating: (10+) ESRB

Target: Casual gamer (aging from 12 – 30)

Release date: November 24, 2021

Publisher: Brandon Galarneau

Description: The Infestation of Ferrwick is a 2D action platformer game. The Infestation of Ferrwick’s gameplay focuses on combat and platforming traversal. Ferrwick is a town on the brink of infestation. You play as a Reaper. A Reaper is a hunter of sorts that travels to infested areas to cleanse the filth. The goal of the game is to travel through three levels and kill all the monsters you come across.

# 2 High Concept / Genre

The Infestation of Ferrwick is an action platformer game.

# 3 Unique Selling Points

The unique selling point of The Infestation of Ferrwick is the character and level design. The combat can be difficult, and this can be considered a bonus to some players who strive for this type of gaming experience.

# 4 Platform Minimum Requirements

The Infestation of Ferrwick has not been tested rigorously on multiple platformers. The lowest end pc tested had an i7 processor 16GB of ram and a NVIDIA 1060 GPU. It is certain to run on PC’s with much lower hardware. For a better approximation of the minimum requirements, refer to the minimum requirements of Unity 2020 LTS, these can be found in the Unity manual.

# 5 Competitors / Similar Titles

Many similar level-based medieval action platformers to The Infestation of Ferrwick can be found on the website Itch.io

# 6 Synopsis

The game starts the player at the menu screen. The player can then see how to play and choose their difficulty, name, and preferred reaper color. The player will then progress through level one, two, and three. Upon completion of level three the player will be met with the credits scene. From there they will be able to repeat the same process, if desired.

# 7 Game Objectives

The goal of The Infestation of Ferrwick is to vanquish all monsters in a level and “cleanse the filth”.

# 8 Game Rules

The player must kill all enemies in a level to complete it.

# 9 Game Structure

The Game follows a level-by-level structure. The player must sequentially beat levels one, two, and three to win.

# 10 Game Play

The player must carefully maneuver from left to right to avoid being hit by enemies. The player will have a small window in which they can attack and kill a monster. There are also small gaps in levels the player must be able to jump over.

## 10.1 Game Controls

The player can move left, right, and jump using the a,d, and w key, respectively, or the arrow keys. The player can use space bar to attack. The space bar can be held down to attack very quickly.

## 10.2 Game Camera

The game’s camera always follows the players location. The game’s camera is deactivated only when the player either dies or completes a level.

### 10.2.1 HUD

The player can always see their health in the top left corner of the screen, next to a beating heart. The heart was added to make it clear what the number meant to the player without any words.

### 10.2.2 Maps

The maps of the game take place in dark towns. The first level is small and straightforward to adjust the player to the gameplay. The second level takes place in a church with a new background. The final level takes place in a swamp where the player can be met with the most difficult enemy in the game.

# 11 Players

There is one player character in the game. The player controls the reaper, which can run, jump, and attack.

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generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RDoRXhpZgAATU0AKgAAAAgABAE7AAIAAAAKAAAISodpAAQAAAABAAAIVJydAAEAAAAUAAAQzOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEJyYW5kb24gRwAABZADAAIAAAAUAAAQopAEAAIAAAAUAAAQtpKRAAIAAAADNTgAAJKSAAIAAAADNTgAAOocAAcAAAgMAAAIlgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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## 11.1 Characters

The only character in the game that is not an enemy is the player, the reaper.

## 11.2 Metrics

The player character of the game has 100 health. The player takes 15 damage from enemies on easy mode and 25 damage on hard mode. The spellcaster has 100 health and takes 25 damage per hit. The skeleton has 100 health and takes 20 damage per hit. The goat has 300 health and takes 25 damage per hit.

## 11.3 States

The player has three states. The player can move, attack, and jump. The player can move left and right and jump all while attacking.

## 11.4 Weapons

The player can only use one weapon, the sword. The sword is a ranged weapon with a very small range. The player can attack by tapping or holding the space bar. The projectiles fired are small but deal a lot of damage to enemies.

# 12 Player Line-up

The only player-controlled character in The Infestation of Ferrwick is the Reaper.

# 13 NPC

## 13.1 Enemies

There are three enemies in The Infestation of Ferrwick.

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VWV1hZWmNkZWZnaGlqc3R1dnd4eXqDhIWGh4iJipKTlJWWl5iZmqKjpKWmp6ipqrKztLW2t7i5usLDxMXGx8jJytLT1NXW19jZ2uHi4+Tl5ufo6erx8vP09fb3+Pn6/8QAHwEAAwEBAQEBAQEBAQAAAAAAAAECAwQFBgcICQoL/8QAtREAAgECBAQDBAcFBAQAAQJ3AAECAxEEBSExBhJBUQdhcRMiMoEIFEKRobHBCSMzUvAVYnLRChYkNOEl8RcYGRomJygpKjU2Nzg5OkNERUZHSElKU1RVVldYWVpjZGVmZ2hpanN0dXZ3eHl6goOEhYaHiImKkpOUlZaXmJmaoqOkpaanqKmqsrO0tba3uLm6wsPExcbHyMnK0tPU1dbX2Nna4uPk5ebn6Onq8vP09fb3+Pn6/9oADAMBAAIRAxEAPwD54oooqjIKKKKACiiigCxaT+RIT0z39K2JbYtblr77qnO30468fjWILW4IyIJCP9w1rNPc3EgD2lycjARYjhj9KERJdUZtzGLeb9y2UkTcOOx7Vr6X9ktLBblot05kChtx+UYBzjoeapDTbu4nZnsL9kXK4SEnac9OnA9qml03U9qxRadqKptBUGBgSenp0oBq6sW7q7jm5iGZy3389R6Y6daxZ1a2vNz8lstj65rQh0vWgyh9JvsdARbP/hU40u/uWMF1pV4shOFcWzD5R7kfWmJJxMyISX7bFGxB989fp/KrM+kLbQRPKeTnHH+s5+vGKtWel6hYwAtpl35k3UPbthcH6e9TT2OsXl1iTTLxR2At3CLx29OlAO99CnBqDWauipvMuPlzjOPf8aj+03v/AD9f+Q1p91pWpy7Bb6TqCtHncTbNnn6CoP7F1z/oG6h/34f/AAoGomZRRRSLCiiigAooooA0be5ufJVUmj74DMd1awuZ4jvE9vleRtc5/D3rGtXO4yD7GpftJ/Dj+VaR+8WxanjG0f560xFpdSvUUyJdoob5yolIJP0z1qb+19RZA4vei5Uea2R7daz5DsCuEgYkAbQM496kGMb82+dn3B/h60xFwa1qyruOok8Z2+e+fyzTf7X1NyH/ALRAOON07ZHt1qkS+fMAt/u4xj/PNKyNtEqxwsQB8qrnP4UgLy6xqM6KxveOeHlbI/Wn22qatPIi/wBqLFuzzLcOAPrzSWVodQgVTLptobfOfObYX3Hv64x+tbWj6deatq0M6WGkRyQ7s20kJCjKkfvFwfTIoGY0Wp6tPKgF80HmZy8szqBj1Oaj/tjVf+goP/Ahv8a39YtbiS8htpl0Kykut24YMYt9oBG/+7u7eua5/wD4R+X/AJ/tN/7/AB/woDU5GiiikMKKKKACu48E+ENO13R7i81KUoxla2hHm7Pn2qVI45PJ9fpXD1qaFeXdvNfRWEFxPJc2UkDLBF5h2tgHI7DpzWtKrGlLnnG6E4Vanu0nZshtTtt84sz7S/e61dWUFzvex34I2xn+nrW34G8JQ6pezR+JrC4ht1aNUEymH7xO5t2ATjHrjnkdK7rUfCnh7Ub20sJ4WksbRhDCzTEFE+UE5B5Hy9TXl1cfTpVOSzelz6DDZFXxFL2l0tLpO/R217eW9zy9pD8qoIDuUc+n/wBenqSgJ/0UkL+JrZ8aaHo/h3X7SPwzHKYXjcXMckgccE7WB5IB5we+361khD/rfsyhSnIyPzrro1VWpqpFWv3PGxOHlhqrpT3X/DkJZiC5NuAVxgf561dTWHgijjjtNPcBByYsk/XnrVcLnMn2ZdgXpkfnSGN/MSVLVdgXpkDNanObVlp4CrZNd6S73ed07yZ8nbyMt/Dnp711vgrWok1Bbq+k0aK2b/XFmAmfAYLjJwcHHXtXIW8j6hcQ3Flo0KpDu8yNXQCTIwM8Dpg+tXdI1NJbjzIPDdtcRR9UMiAHIPqtDSkrMadjZ8Z3ltrHiF7XTToaw3ONl02AU2opPmOMgZIIH5Vx39jXX/QSsP8Av+f8KvPc/btejvrfSIoYLrPlWyuu07Vwew7jPSqv/CP6n/db/vtf8aUUopJA9dTiqKKKBhRRRQAVZsoLWY3Ju9vy27GPc235+31PtVailJXVi4y5Xc7DwxrkLaNDpckoiaBvlSQqNxZmI29z1/Wt6uAt309cSSRFZAQVKuwKkd8itW5v4IofKju7iG43B1naaRwBn7uwnB6d655ULu6PXo5pywUaibtp8izrtw58QQLNE0oktljjP3QNpYkZ9gf1qu0J5YwYTbyN9Vob6CXUba41e/8AtsUBb9z5Jj3ZGPvL+H5Ve/tHQHvSyWmI2XaI/Nk6k9c4remuWNmeZiqirVpVF17lbZ3W2xHjp5n60LC4IZbb931x5nWrk+peHQrJHY+U+0rnzpDz69KIb7QRbiRrHdswGfzpBk+uKs5yAwFipW3wO439ajOWVPKt/wB2ueN/Wr5uNFubmKW1sNsfOU85zu4x1PSrlre+GYV/f6F5zdj9skXH5UxGM5EqqXt9+c7fnx9ah8qf/nl/48K3Li98NmaPZovlI2dqfapDnA55qj/aXhv/AJ8f/I0n+FIZzn9n3f8Azwek+wXW4DyHyRnpXrkuhRvrcFykNutqiFXi2fePzc4xjuPyrHu/DF1JqzeS9uiSeY6Lkjau4cdPcUJxNHBo88/s+7/54PR/Z93/AM8Hr1uXQo31uC5SG3W1RCrxbPvH5ucYx3H5URaFGmtz3Lw27WroFSLZ90/LzjGOx/OleI+Rnkf2C6zjyGzS/wBn3f8AzwevQ7TwxdR6svnPbukflu65J3LuPHT2NbEWhRprc9y8Nu1q6BUi2fdPy84xjsfzptxEoM8k/s+7/wCeD1NBaXKK22JkkH8WM5/2cf1r1GHw/s/tLzI7dvtGfs/y58v72O3HUdPSqGkeG5odUaS7+zyxRuQ6ctnKDHBHuKPdDkZwCRXqyLiB0UkF+M5Pc1fQyRjKI4b12npXodhoUcF3eSXUNvLHK+6JdmdgyeMEcdR09KrReG5E0Se2cW7XTuGSXH3R8vGcZ7H86LxF7NnnjNdPOCLdtvmfM394Z5+laIumVQBbvgDA6/4V1ugeHnt5pJb5beaL50CkbsMH64I9jUth4bkgtLyO6FvLJKm2JsZ2HB5yRx1HT0p3iHs2cO7yFSixusf93aT+tRp5isHRWz2O2u8l8NyPokFsgt1ukcs8uPvD5uM4z3H5VFo3h549Jm+0LbyPPAvksRnYdp55HHUdPSi8Q9m7nGpI6xGN4nZewwRipPtUv/PJ/wAj/hXZxeG5E0Se2cW7XTuGSXH3R8vGcZ7H86of8Ijf/wDPW3/76b/Ci8e4cjOxqu//ACEof+uMn80qxUD/APIQi/65P/NaxOgnooooGV0/5CU3/XGP+b1Yqun/ACEpv+uMf83qxQIKr23/AB8Xf/XYf+gLViq9t/x8Xf8A12H/AKAtAFiiiigZXsv+Pdv+u0n/AKG1WKr2X/Hu3/XaT/0NqsUCCq9h/wAg22/64p/IVYqvYf8AINtv+uKfyFAFiiiigZ//2Q==)The first is the spellcaster. The spellcaster will move towards the player and fire projectiles when in range.

The second enemy is a skeleton. The skeleton will move back and forth and can only damage the player by running into them.

![A screenshot of a video game

Description automatically generated with medium confidence](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RDoRXhpZgAATU0AKgAAAAgABAE7AAIAAAAKAAAISodpAAQAAAABAAAIVJydAAEAAAAUAAAQzOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEJyYW5kb24gRwAABZADAAIAAAAUAAAQopAEAAIAAAAUAAAQtpKRAAIAAAADMzIAAJKSAAIAAAADMzIAAOocAAcAAAgMAAAIlgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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FVWV1hZWmNkZWZnaGlqc3R1dnd4eXqDhIWGh4iJipKTlJWWl5iZmqKjpKWmp6ipqrKztLW2t7i5usLDxMXGx8jJytLT1NXW19jZ2uHi4+Tl5ufo6erx8vP09fb3+Pn6/8QAHwEAAwEBAQEBAQEBAQAAAAAAAAECAwQFBgcICQoL/8QAtREAAgECBAQDBAcFBAQAAQJ3AAECAxEEBSExBhJBUQdhcRMiMoEIFEKRobHBCSMzUvAVYnLRChYkNOEl8RcYGRomJygpKjU2Nzg5OkNERUZHSElKU1RVVldYWVpjZGVmZ2hpanN0dXZ3eHl6goOEhYaHiImKkpOUlZaXmJmaoqOkpaanqKmqsrO0tba3uLm6wsPExcbHyMnK0tPU1dbX2Nna4uPk5ebn6Onq8vP09fb3+Pn6/9oADAMBAAIRAxEAPwDh/h6w/wCEgn3EDNs2Mnr8y1t/EMr/AGBAARuN0vGf9lqydW0O/wDDMVvqmmyJH5MKRzlDk7zkFsEYK5x+OOKltJJ/GPiI+a2/TLYbihG0AlcD3JyCeewNepbSxHW5xZb9etWWHnWaMiFdvyHHPbrV/wAR6HLouoEOE8iZmaEoc4XPQ+4BH51SseUliJJyAwHtzk/yqUvesUtSByqyB1GUBBA9cGrcx8oE4wT2NUyMw89sj+v9as3LC4UTR7trfwnt2q4vcZXYlyWPU03oOaUGkYZx6VAhpOR+NJSUtYttsQUUUVIBRRRQB6p42YL4SuwTyxQD/vsH+lYXw4YBtRXPJEZA/wC+v8ayprm51rUYLK6mkeO1i2Sqzkqzrkb/AK89TzVy6WXQdSTU41kRgSk0agjgrgZ7YyB+ldduoraWLXxGYF9OXqQJCR7Hb/hXJWDKl0d52h12L35JFb+kC41rULu+k82cklUVsttUnOB6AZH51k32mGwvrYB1ZJJcrjsARx+op2+0NaFWSF2laJI8n6gdR/8AWqzDFNFAsb2W8jIz5oGe9aMT/v7pQn8MeT+JqlcvvlO3BwMDnrVKC+K5RXnQxqXezCDoMSdKrMGCMzR4GeDu6c0+aTdlSuGB6+1SxqfLw5DjsMcVPLd6MCsYZH5WPAPI5FNMEoBJXge4q7Ef3Kf7oqgxzIdvTPFZSikrsBNrUhyKcQfWkX7wrO2tgCihjk0VL0ZJ33hG3juNQvC4VgtxK2Cudw4H9c1b8cwKNEnnHDblB468j/CqngkA6rfuG6vJx7bl5q/4958N8DOJkJ9utdnUL6k3hCBE0qGVQAWiQHA/2QT/AJ9q57xjaC31ywRCCJHLAAYC5YcV1Hhb/kA2/wD1zX/0Fa5/xs3/ABUekjHAwc/8DFAJmE0i+dcI02wsidTgdTx/n1qKNoI9++ZOVIOGH+c1PLDE73DTwiRVjTqxGOW9K6X4Z6lZ6VqskV94Hh1/T7ueBLvUJ4t8OkRbiGlcsjhV2ksSSoxGeeOCc3CPMNHDNKrysocKgPBzyac7IFG3awHO3NewfFPV/Df9nzab4M8F6Xf6bNDG8vifSI42hspfNyYmeOMgMQqDBcHEo45GfGnhUttjXOOvXisoVHON0M2PEXhvUPDF7DZaoY47h4VkASTIK5I/mprBbhuB0PbvXpvxqjjbxpaGTr/Z6AZOP+WklecN5Kt8qZ98mpjecFJgQdeoNIcZ9KewT0A/E00AUrMBopaD9P1orNqwmegeCIwt9fNjDCSRevutXfHRx4bcbsZlQYx972/r+FUfBODqV+dzZ8yT5Sfdeav+Oio8NybupkTbx3z/AIZrsZPUueFv+QDb/wDXNf8A0FawPGy58Q6Vz3H/AKGK3/C3/IBt/wDrmv8A6CtYPjYf8VDpJ9x/6GKQLcqaZo1/r2qS6RpcAnv50Ty4fMVd23cx5YgdAT17V7z8OtA8HSeG9V0Gyts38lpFZeI4PMm5l2OjruJx180ZjOPQ9K8W8Ma6nhXxyuvPbG6NnHxCJTGG3I6HJwR/FnkHpXY/DHTb3xh8QNc17TtautHgiv4b24soHZkug8sj+WxDKCAFK8gj5jx2OddNxd9ikelXPg/wF4H+Hepadc2X2Dw3LMs93GZp5MuWjVTncX6rGMA44+teX+GPhJNqPi6/1C50TzPDF0kk2lyfawu6NnUwnAfzB+7P8Qz6811/xx8LapqPh+91i01y6S0htYYW0hSRFO/ng+YTvC5+YdVP3RzXhFt4y8RW1qkEHiPWIIoFEaxR6hMqoAMBQA2ABjoK890XiKUqMZuLfVOzXmuxdrWZ6l8X4PDdqssevLt8QfYg1mMyH5N7Y+78nUP1/wAK8KA3ck11Pjbxc/jjX4tRntXgaK1EARpzLnDM2c4GPv8ASuY+UdsfiawyrBzw2HSqSm29Wpy5mvK60sEndjSvqaTBPTpSnBxj9c0mT9K9N2JEOe9LRRUMTZ3/AIJYHVL8FcPvkP8A48vFaHjkA+GZsjOJEI9uawvDlxPbarL5TALLdyxtxn+Hd/7KK6q7059aszb3QkaFyCcDA498V2PcuNKUtUReEmdtBh3pswqgc5yNq81heNnx4j0pcdMH/wAf/wDrV1MOmTaZaJFas5RcKFA3EDGPT2rJ1PShq95bzzSN5sJ+TC9ec9qRXsJpnL37MJ7sKesceR68mvXvGOleIJvAvw+8QeHNPS7/ALB01LycySIqx7Y4HG4FgWBEbcLz+lcKfCSTzmS6ilkYgAER4xjPqDT9Wu9atL6LQ4ta1QWH2ID7Il05j2ZKbNucbdvG3GKmonJqw/YyOs8D+Mda8Y/FrRL7XbC3glWGWJWtRtQKIpGGQXY5yx/SuF+J/grxBofiPV9d1OwMGmX+qzfZ5zNG2/e7uvyqxYZUE8gVc0bRZ7ORL3Tpb60uIyRHNCgjdcjBwwGehI6+taGqafqmvWq22t6nrF9AjiRYriYuobBGcEdcE/nXPGgoNuHUp05ux5SpdGznqtJXcaz4QsdL02eYJIXVCV3HjP5VLH4J0+XOxbk467Wz/St7W0J9jI4H6CkI4z3r0l/h5YFCwEwwPuq/X9KpSeC9PXK/v0cf3j0/DFJxbD2MkcDS12134Lht9PnuAJiI4mkHykDhSRzU3/CHaZ6T/wDff/1qzdNoXsZGX4enW61dIXn+yLJcyS+d8vyfIeMnj26V6AHiwN3iWQnvhrf/AOIrn7eLR7tJI4tIfkFS3kRLtyMA5D59+Kj/AOEY03n92/P+2eK6DpppwVjpd8P/AEMsn/fdv/8AEVWbUbRHKnxFeZU4OIYyPzEXNY6+G9KAANtnjqZG5/Wl/wCEc0n/AJ9f/Ijf40zTmZS0PwnHqOlW166mQSbiyg7ejEYzn2rXh8F6fJMUktGiwM7t7kH9azptA0sKypauHxwQZCP8Kp6ZpmkTm5W58kNHLtUSXGzA2qe7DuTR1J07G/J4C03zF2mQBjghScLx9fb9az/EnhPTtL0GW6gYrNFt28nL5YA9T754qe28L6TdyFIEt3YDdhbotx+DGq+v+E7bTtDuLqC3Xem3BWRiRlgOh+tANabEWo+E103Rrq4hefaEDHLoQfyHvXTxmNIwjeJnO3gYNuMD/vg1T1/S5IfD19JKRhYiRtz1yPaskeGNNyD5T8dt55pBszpd8P8A0Msn/fdv/wDEVDNe20DhX8R3RJGfkSJx+YjNYSeGtLUYaBn56tI39DT/APhHNJ/59f8AyI3+NMrmZX1HRItVh1XVo7p7owsQHkQKWCwqc8bR146V0akogVfFGAowBiD/AOJrmdR0TS7exuHjtWEixMysC5AODjvipv8AhGdN/wCeT/8AfZpNoks/8JDpFipd9O1OFE+dg1uoGB1JGfarQ8W+DZQ7rqSEKNzYgnGBnH931NZviCCRtAvixRytu54THGDnnNeSA4GBUSk0TKbifQmknSNctGutKkWeFJDGzYdcMADjDAHoRVt9DhY5UlPZW/xr56ttQeCNkcGRWIIGcYNWrjWhdLCLhXJjJz0ORx3/AANNSixKqrbHtV5ps1nbtNKUMajLFT0ryLXNQEHi66MZZLdimUHAB2Lzge4rLvdTNykcUKmONAQScZbPP+eao4qZS10InO+x1X/CUraQBrC5mjmwFZkyCR35qDUdc1RoWSbUrx4/4kadiDyMcZrnMU5mZ1AZmYLwAT0odRvcnnbOo1DxVfXDpGdQuXtZUw6ySuQRnJJGfQD8zXocXjLwfeGP/T1SRwB5Zt5gQT2OFxmvFEXLH6H+VIOOlLnY41Gme/6NdaF4g846POtyINvmfLImM5x94D0NaL6LAwwo2e6sf6187217LayfKxKEEMgOA3H/ANern9uE2clu6MI2HygHODkH/GrU09zRVl1R7Lr2kvbaHqEyuvkx20jHJOQApyelU4/Hfg541ZtQijLAEo1pLlfY4Qj8q8jl1cNpps4YiAxBZ2x178Vm7RSlK2wnVtsd54j8cLNDNZW+nLB50TRvi48zZkYyDj36VwlBZmYs7FmPUk5orOTuzGUnJhRRRSJCiiigAooooAdH94/7p/lTachwx+h/lTaACiiigAooooAfDxOn+8P51reazcEn6ZoopptMmQqjMijpz2qxO5Hy4ByO9FFbLZkogzRRRUghv8Q+tOJxRRSAQnilaPNukoPDMy4+gH+NFFTJtNL+tio6pv8ArcvzQi38URRIFws0eBjA7HpUF64h1i58wfedzhRwPmNFFcOGV+WT35UdNWTlzerZA86kMEXk9zUWw+1FFd8Vz7nOj//Z)

The final enemy is the goat. The goat attempts to move into attack range of the player and fires a fast-moving projectile the player must jump over. If the player gets too close the goat will run away from the player until it reaches a certain distance from the player. The goat can still attack when running.

![A screenshot of a video game

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### 13.1.1 Enemy States

The spellcaster and goat both have three states idle, moving and attacking. The idle state is interrupted when the player gets in range of the enemy. The other two states can occur simultaneously. The skeleton only has one state, movement.

### 13.1.2 Enemy Spawn Points

Enemies are placed deliberately in levels and do not spawn dynamically.

# 14 Art

The Sprite art in The Infestation of Ferrwick was created in Piskel by Brandon Galarneau. All art found in levels was created by user Ansimuz via OpenGameArt.org

## 14.1 Setting

Each level of the game takes place in a new location. The first level takes place in the gloomy town of Ferrwick itself. The second level takes place in an abandoned church. The final level takes place in a swamp.

## 14.2 Level Design

Every level has small jumps the player must navigate while attempting to kill all enemies. The player will travel upwards and downwards in the levels. Spellcasters are the main damaging threat to the player in levels. Skeletons are used to keep the player from rushing forward to certain areas or to make jumps more difficult. The goat’s difficulty makes it an enemy that will only ever be faced one on one.

## 14.3 Audio

All soundtracks in the game were gathered via OpenGameArt. Credit for each source can be found in the bibliography. Each level has its own soundtrack. The soundtracks are used to convey a similar feeling throughout the experience. When an enemy is killed a splat sound is played to accompany the blood splatter from their death; the same can be said of the player.

# 15 Procedurally Generated Content

## 15.1 Environment

Each level takes place in a new environment. Every setting is meant to fit a dark tone. The music is meant to offset that tone and invoke an arcade game cabinet feeling to the game.

## 15.2 Levels

Each level has the same goal: Kill all the monsters. Players cannot progress to another level until this goal is met.

## 15.3 Artificial Intelligence NPC

Each enemy in the game has its own script attached to it. The goat and spellcaster’s behavior dependent entirely on their current distance from the player. The skeleton works independently of, and ignores, the player to patrol back and forth.

## 15.4 Visual Arts

The Infestation of Ferrwick’s art style is pixel art.

## 15.5 Audio

The main source of audio in The Infestation of Ferrwick is music. With sound affects playing when either the player or a monster is killed.

## 15.6 Minimum Viable Product (MPV)

The MVP for Infestation of Ferrwick is a three-level game populated with enemies to kill in each level.

# 16 Wish List

There are number of things missing from this version of the game that would be preferable. Firstly, the combat system would be more robust. The player would have more in their arsenal than just a simple right facing attack. Left facing attack, jumping attack, etc. With a more robust combat system it would follow that enemy ai would be more complicated with a lot more states in their behavioral trees. I.e., the Skelton would be more of a melee brawler rather than a goomba. The game would also not follow a level-based structure and would be a Metroid Vania world that the player could explore. This new traversal would have a checkpoint system like bonfires from the Souls series. There would also be a healing system for the player to match this new emphasis on exploration and traversal between checkpoints. Another stretch goal would’ve been bosses. The only enemy game functioning as a pseudo-boss is the goat, who’s ai is not complicated enough to be considered a true boss. However, with tweaks he would reappear as a dedicated boss fight. Finally, I would’ve preferred to create the game’s soundtrack myself.

## 17 Bibliography

Open-source art and soundtracks used in game

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Credit for all files in backgrounds (except for Floor\_Sprite) goes to user ansimuz of OpenGameArt.org

Credit for determination goes to user ansimuz of OpenGameArt.org

Credit for impactsplat01.mp3 goes to Independent.nu Submitted to OpenGameArt.org by user qubodup

Credit for hauntedcastle soundtrack goes to user Wolfgang of OpenGameArt.org

Credit for Alagard font goes to Pix3M submitted to OpenGameArt.org by user Julius

Credit for cemetery 8bit theme goes to user gustavoasilveira of OpenGameArt.org

Credit for Memoraphile - Spooky Dungeon goes to user You're Perfect Studio of OpenGameArt.org

Credit for Celebrate goes to user MrJoshuaMcLean of OpenGameArt.org

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All other sprites not listed above were created by Brandon Galarneau for use in The Infestation of Ferrwick