Fire The Maze

Gabriel Guerra
Gabriel Zaid
Brandon Magaña
Yahwthani Morales



Game Overview

- 2D maze adventure game
- Play as "Firey" a brave flame seeking escape
- Core Mission: Collect lost flames, avoid water enemies, find the exit
- Strategic gameplay combining collection, evasion, and pathfinding



Our Hero & It's Enemies

Fiery - Our Hero

- A determined flame separated from their power
- Last hope for the fire world
- Must recover strength by collecting lost flames
- Trapped in a maze by water enemies

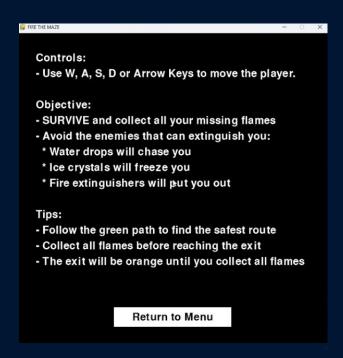
Enemies

- Water enemies
- Ice Enemies
- Extinguisher Enemies

Game Scenes

Menu/Instructions





Maze









Win/Lose





Core Game Mechanics

Movement Controls

- W: Move forward
- A: Move left
- S: Move backward
- D: Move right

Power Up System

- Green flames grant temporary immunity
- 5-second power-up duration
- Enemy elimination capability

Flame Collection System

Technical Implementation

Maze Generation

- Grid-based initialization
- Randomized recursive backtracking
- Path density optimization
- Neighbor validation system

Path Finding

- Dijkstra's Algorithm implementation
- Dynamic shortest path calculation
- Priority queue system
- Path reconstruction

Enemy Ai

- Steering Behaviors
- Flee mechanics
- Seek mechanics

Victory Conditions

- Collect all scattered flames
- Follow optimal escape route
- Reach the exit point
- Avoid enemy contact