

# **GAME OVERVIEW**

Till Death Do Us Part is a whimsical tower defense game I made for my girlfriend's 20th birthday. She loves tower defense games, so I decided to create this mini version just for her. You play as a loving boyfriend preparing a birthday cake at home for this special day. However, a horde of ravenous rabbits outside has caught the scent and is determined to crash the celebration by devouring the cake! Players must strategically place down turrets to protect the cake from waves of hungry bunnies. As the game progresses, the rabbits become craftier, requiring quick thinking and adaptive strategies to succeed.

## **CHARACTERS**









**Protagonist:** The loving, determined, and resourceful main character—me.

Rabbits (Enemies): rabbit is uniquely animated with distinct speed.

# **OBJECTIVES**

The main objective is to prevent the rabbits from reaching your house and consuming the cake. Each wave grows progressively harder, with more rabbits





# **GAMEPLAY CORE MECHANICS**

Base Defense Mechanics: Players defend the cake by positioning a creative turrets around the garden and other entry points.

Advanced Al: Each type of rabbit has distinct movement patterns and adaptive behaviors, such as evading.

Dynamic Difficulty Scaling: As level progress, rabbit numbers increase, become more sophisticated and they employ more complex maneuvers to reach the cake.

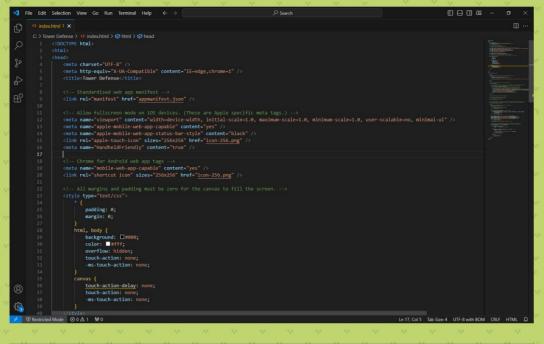
Sprinkler Shooter: Fires confetti sprinkles with speed and kill the enemies.

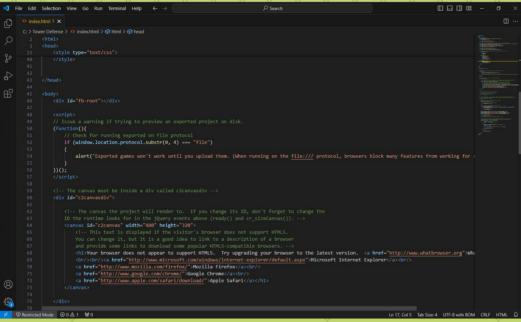


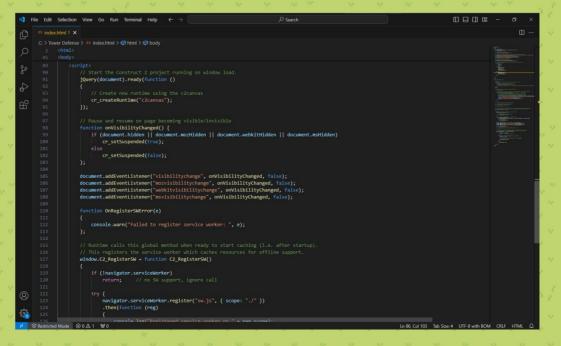
The gameplay follows a standard tower defense structure, with waves of enemies (rabbits) attacking the base (house with the cake). Players must strategically place turrets around the garden to fend off the rabbits.

After defeating all the rabbits, "I" can finally enjoy the birthday celebration. "I"'ll do a bit of parkour to light up the candle, and there will be a mini article "I" wrote for my girlfriend. Then, "I" join my girlfriend to sing the birthday song, completing the special day together.









Asset Laboratory

ALC: NAME OF PERSONS ASSESSED.

And in case of

This HTML file is designed as the setup for a web-based "Tower Defense" game. Here's a breakdown of each part:

### <!DOCTYPE html>

Defines the document as an HTML5 file.

- <html>, <head>, and <body> Tags
- <html>: The root element for the HTML document.
- <head>: Contains metadata and links for resources like stylesheets, scripts, and the page's title.
- <body>: Contains the visible content on the web page.

### Metadata Section in <head>

- Character Set: <meta charset="UTF-8" /> defines the character encoding for the document.
- Compatibility Mode: <meta http-equiv="X-UA-Compatible" content="IE=edge,chrome=1" /> helps ensure compatibility with IE and Chrome.
- Title: <title>Tower Defense</title> sets the page title.
- Manifest: k rel="manifest" href="appmanifest.json" /> links to the app manifest for progressive web app (PWA) capabilities.

### CSS <style> Block

The CSS ensures the canvas fills the screen without margins or padding:

- Universal selector \*: Resets padding and margins.
- html, body: Sets background and font colors, disables scrolling, and controls touch events.
- canvas: Sets the canvas to disable touch delay, optimizing responsiveness.

## JavaScript for Offline and Visibility Management

- Disk Warning: A script checks if the file is being run locally (from the file:/// protocol) and alerts the user if so, since some features require it to be hosted online.
- Runtime Initialization: The game's runtime (c2runtime.js) is initialized, rendering the game within a <canvas> element.
- Visibility Events: Events to pause/resume the game based on page visibility, to conserve resources when the game is hidden.
- Service Worker Registration: Registers a service worker (sw.js) to enable offline support for the game, providing caching of resources for Progressive Web App (PWA) functionality.

#### Canvas Setup in <body>

The main game interface is in a <canvas> element nested within a <div> with an ID of c2canvasdiv. If the browser doesn't support HTML5, a fallback message suggests browser options.

#### Scripts and Runtime

- jQuery: A required library for the game.
- Pathfinding and Runtime Scripts: pathfind.js and c2runtime.js handle game logic and pathfinding.
- Service Worker and Runtime Event Handling: JavaScript is used to manage the service worker and handle caching, making the game more accessible offline.

This setup is typical for web-based games and is optimized for both desktop and mobile browsers, with specific considerations for iOS and Android to ensure fullscreen, responsive, and offline capabilities.

Game Link: https://turretdefense.netlify.app