



# Scribble Hop

2D Jump and Shoot Game

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CMPS 3350

## Overview:

Scribble Hop is an animated 2D character who must navigate a maze of shifting and crumbling surfaces. The objective is to stay alive for as long as possible by bouncing on the platforms and accumulating the highest overall score. The additional obstacle is that when you leave platforms behind, they will vanish, leaving a void behind you. As you progress through the level, the number of platforms decreases and new obstacles appear. In this entertaining and adventurous game, Scribble Hop will lead you through triumphs and tragedies.

## Technical Requirements:

- ➔ Programming in C++
- ➔ Graphics with OpenGL
- ➔ Inputs:
  - Keyboard
    - Movement - Left-Arrow (moving left), Right-Arrow (moving right), Up-Arrow (shoot).
    - Quit – Escape Key

## Product Features:

- ➔ Art
  - 2-Dimensional Screen
  - Tears in background
  - Platforms and mobs
  - Sound effects and music
- ➔ Physics
  - Gravity
  - Collision with platforms
- ➔ System
  - Start menu
  - Character falls off screen when it misses a platform
  - Tears in background, ends game instantly
  - Score displayed on screen while playing and when game finishes
  - Offers a restart button when game ends

## Overall Goals:

- Score calculator
- Continuous game play
- Game audio and music
- Improve game quality