Breaking Red

Developers Manual

A logo with text on it

AI-generated content may be incorrect.

1. Overview

Breaking Red is a 2D top-down style platformer game in which the player plays Red, a girl trying to solve the mystery of who murdered her grandmother. The player will travel through 5 different levels where they can talk to/attack NPCs for clues and collect power-ups. Their goal is to discover the true murderer of Grandma without running out of health or sanity.

1. Development Platform

The Green Sky Games development team used Unity version 6000.0.38f1 to create Breaking Red. Unity and Unity Editor must be installed in order to download the game.

**Installing Unity and Unity Editor**

* Go to <https://unity.com/download> and scroll down until you see 1. Download the Unity Hub
* Click Download for Windows and open it
* Review and agree to the Terms of Service
* Choose the location where you would like the installation to be saved
* Click Install
* Click Finish
* If a firewall blocker message comes up, click Allow Access. If not, disregard this step.
* It may prompt you to create a Unity account if you haven’t already at some point during this process.
* A prompt to Install Unity Editor should automatically pop up after that
* Click Install Unity Editor
* That should pull up Unity Hub where you can keep track of the installation progress. This could take several minutes.
* After it is finished, you will be able to open Unity Editor
* Make sure that it is the correct version

**Downloading Breaking Red**

1. Go to <https://github.com/GreenSkyGames/Breaking-Red>
2. Click the green Code button on the top right and select Download ZIP from the dropdown menu.
3. Navigate to where the Breaking-Red-main zip file was saved and click Extract all. Select the file path and then click Extract.
4. A screenshot of a computer

   AI-generated content may be incorrect.Open Unity Hub. It should look something like this.
5. Click Add in the top right and then select Add project from disk.

A screenshot of a computer

AI-generated content may be incorrect.

1. Select where the zip files were extracted. Once you find the Breaking-Red-main file, you may have to double click it to get to the correct file. You should see folders like UserSettings and Assets like shown below. Once you do, click Open.

A screenshot of a computer

AI-generated content may be incorrect.

1. The project will be added to your Unity Hub so then double click it to open it in Unity Editor. This will likely take a couple minutes.
2. Once Unity is open, make sure you are in the Assets folder at the bottom.
3. A screenshot of a computer

   AI-generated content may be incorrect.Click **Scenes** and then click **Start Menu.** This should open up the start menu of the game.
4. Under File in the top left corner, select Build and Run.

A screenshot of a computer

AI-generated content may be incorrect.

1. Choose where you would like to save the executable.
2. If a message saying that you are not a member of the project comes up, click Yes.
3. The game should open automatically after that.
4. Unity will automatically compile everything into the necessary files and create one convenient Breaking Red application file that you can click on whenever you would like to play. Note Unity creates several other files and folders that must be in the same directory of the Breaking Red application for the game to run.

**Quick Launch:**

After downloading the game for the first time, you should be able to launch it straight from your desktop the following times you wish to open it.

* Double click the Breaking-Red-main.exe file and it will run the game
* Check BC Mode if you do not want to take damage
* Use W-A-S-D keys to move
* Click P to pause the game at any time
* Click escape to exit the game

1. Code Organization

The code is organized based on the following context diagram and data flow diagram.

**Context Diagram:**

A diagram of a button input

AI-generated content may be incorrect.

A diagram of a company

AI-generated content may be incorrect.**Data Flow Diagram 0:**

The start menu will load our Level 1 game scene, where the player starts. Our game consists of 5 different levels in the world which can each be accessed by the preceding level. Our main features, set through prefabs and/or managers are the player, NPCs, collectables and power-ups, character customization, the save system, UI elements, and the level builder.

* 1. Code Walkthrough

The game runs as follows:

* 1. The Start Menu scene is loaded from the executable. From the Start Menu, you