

# SIMON GAME

(Tech Stack: HTML, CSS, JavaScript)

## Project Description:

The **Simon Game** is a classic memory-based game recreated using web technologies. Inspired by the original electronic game from the 1980s, this project challenges users to test and improve their short-term memory through a fun and engaging sequence-matching experience.

## How to Play:

### Step1: Start the Game

The game begins when the user presses key **'A'** on the keyboard

### Step2: Repeat the Pattern

- The user must **click the buttons** in the **same order** as shown by the game.
- After each successful round, the game adds **one new step** to the pattern.

### Step3: Level Up

- With every successful round, the level increases (e.g., Level 2, Level 3, etc.).
- The sequence gets longer and harder, testing the user's memory skills.

### Step4: Game Over

- If the user **presses the wrong button**, the game plays a "wrong" sound, flashes the screen (e.g., red background)
- The game over if user want to restart **press any key**.

## Features:

- Four colored buttons: **red, green, blue, yellow**
- Random sequence generation for each level
- Audio feedback for each button press
- Visual animation (light flash) on button press
- Unique sound for each button (like the original game)
- "Wrong" sound on incorrect button press



## Learning Outcomes:

- DOM manipulation with JavaScript
- Event handling (keyboard and mouse clicks)
- Use of arrays to store and compare sequences
- Timing and delays using `setTimeout()`
- User interaction feedback via animations and audio

## Use Cases:

- Great for **casual gameplay** and **memory improvement**
- Useful for beginners learning **JavaScript and DOM**
- Can be used in **educational settings** to teach sequencing and pattern recognition

## Live Demo / GitHub Repository:

-  **Live:**  
[[https://manishkumar081.github.io/Simon\\_game/](https://manishkumar081.github.io/Simon_game/)]
-  **Code:**  
[[https://github.com/ManishKumar081/Simon\\_game](https://github.com/ManishKumar081/Simon_game)]