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<!DOCTYPE html>
<html lang="es">
<head>
  <meta charset="UTF-8">
  <title> Fiesta de Colores </title>
  <style>
    body {
      font-family: 'Arial', sans-serif;
      background-color: #f0f0f0;
      display: flex;
      justify-content: center;
      align-items: center;
      min-height: 100vh;
      margin: 0;
      text-align: center;
    }

    .container {
      background-color: white;
      border-radius: 15px;
      padding: 30px;
      box-shadow: 0 10px 20px rgba(0,0,0,0.1);
      max-width: 600px;
      width: 100%;
    }

    #party-title {
      font-size: 2.5em;
      margin-bottom: 20px;
      transition: color 0.5s ease;
    }

    .color-palette {
      display: flex;
      justify-content: center;
      flex-wrap: wrap;
      gap: 10px;
      margin-bottom: 20px;
    }

    .color-btn {
      width: 50px;
      height: 50px;
      border-radius: 50%;
      border: none;
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    cursor: pointer;
    transition: transform 0.2s;
}

.color-btn:hover {
    transform: scale(1.1);
}

.volume-control {
    margin: 10px 0;
}
</style>
</head>
<body>
<div class="container">
    <h1 id="party-title">Bienvenidos a la Fiesta de Colores</h1>

    <div class="volume-control">
        <label for="volume-slider">Volumen: </label>
        <input type="range" id="volume-slider" min="0" max="1" step="0.1" value="0.5">
    </div>

    <div>
        <input type="color" id="new-color-input">
        <button onclick="addNewColor()">Añadir Color</button>
        <button onclick="resetParty()">Reiniciar Fiesta</button>
        <button onclick="finishParty()">Finalizar Fiesta</button>
    </div>

    <div class="color-palette" id="color-palette"></div>

    <div id="info-display"></div>
    <div id="timer-display" class="inactive-warning"></div>
    <div id="final-results" class="final-results"></div>
</div>

<script>
const initialColors = ['#FF6B6B', '#4ECDC4', '#45B7D1', '#FFA07A', '#98D8AA'];
const colorSounds = {
    '#FF6B6B': './flauta.mpeg', // Rojo
    '#4ECDC4': './lectro.mpeg', // Verde
    '#45B7D1': './piano.mpeg', // Azul
    '#FFA07A': './canserv.mpeg', // Naranja
    '#98D8AA': './yatra.mpeg' // Verde claro
};

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let colors = [...initialColors];
const colorVotes = {};
let inactivityTimer;
let colorAudioMap = {};

function preloadSounds() {
  // Precargar sonidos para una reproducción más rápida
  Object.entries(colorSounds).forEach(([color, soundUrl]) => {
    const audio = new Audio(soundUrl);
    audio.preload = 'auto';
    colorAudioMap[color] = audio;
  });

  // Configurar control de volumen
  const volumeSlider = document.getElementById('volume-slider');
  volumeSlider.addEventListener('input', (e) => {
    Object.values(colorAudioMap).forEach(audio => {
      audio.volume = e.target.value;
    });
  });
}

function generateRandomColor() {
  const letters = '0123456789ABCDEF';
  let color = '#';
  for (let i = 0; i < 6; i++) {
    color += letters[Math.floor(Math.random() * 16)];
  }
  return color;
}

function playSoundForColor(color) {
  const specificSound = colorSounds[color];
  if (specificSound) {
    const audio = colorAudioMap[color];
    if (audio) {
      audio.currentTime = 0; // Reiniciar reproducción
      audio.play().catch(error => console.log('Error playing sound:', error));
    }
  } else {
    // Si no tiene sonido específico, usar un sonido genérico
    const genericSound = new Audio('https://www.soundjay.com/button/sounds/button-08.mp3');
    genericSound.volume = document.getElementById('volume-slider').value;
    genericSound.play().catch(error => console.log('Error playing generic sound:', error));
  }
}

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function initializeParty() {
  preloadSounds(); // Precargar sonidos al iniciar

  const palette = document.getElementById('color-palette');
  palette.innerHTML = "";

  colors.forEach(color => {
    const colorBtn = document.createElement('button');
    colorBtn.className = 'color-btn';
    colorBtn.style.backgroundColor = color;
    colorBtn.onclick = () => {
      selectColor(color);
      playSoundForColor(color);
    };
    palette.appendChild(colorBtn);
    colorVotes[color] = 0;
  });

  // Limpiar resultados finales
  document.getElementById('final-results').innerHTML = "";
}

function selectColor(color) {
  // Cambiar título
  const title = document.getElementById('party-title');
  title.style.color = color;

  // Contar votos
  colorVotes[color]++;
  updateMostPopularColor();

  // Iniciar temporizador de 15 segundos
  startColorSelectionTimer();
}

function addNewColor() {
  // Generar un color aleatorio automáticamente
  const newColor = generateRandomColor();

  if (newColor && !colors.includes(newColor)) {
    colors.push(newColor);
    colorVotes[newColor] = 0;

    // Asignar sonido genérico para nuevos colores
    colorSounds[newColor] = 'https://www.soundjay.com/button/sounds/button-11.mp3';
  }
}

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const genericAudio = new Audio(colorSounds[newColor]);
genericAudio.preload = 'auto';
colorAudioMap[newColor] = genericAudio;

const palette = document.getElementById('color-palette');
const colorBtn = document.createElement('button');
colorBtn.className = 'color-btn';
colorBtn.style.backgroundColor = newColor;
colorBtn.onclick = () => {
  selectColor(newColor);
  playSoundForColor(newColor);
};
palette.appendChild(colorBtn);

// Actualizar el input de color con el nuevo color generado
document.getElementById('new-color-input').value = newColor;
}
}

function startColorSelectionTimer() {
  const timerDisplay = document.getElementById('timer-display');
  clearTimeout(inactivityTimer);
  timerDisplay.innerHTML = "";

  inactivityTimer = setTimeout(() => {
    timerDisplay.innerHTML = 'Tiempo de selección agotado. Reiniciando la fiesta...';
    setTimeout(resetParty, 2000);
  }, 26000);
}

function updateMostPopularColor() {
  const infoDisplay = document.getElementById('info-display');
  const mostPopularColor = Object.keys(colorVotes).reduce((a, b) =>
    colorVotes[a] > colorVotes[b] ? a : b
  );

  infoDisplay.innerHTML = `Color :
  <span style="color:${mostPopularColor}">
    ${mostPopularColor} (${colorVotes[mostPopularColor]} votos)
  </span>`;
}

function resetParty() {
  clearTimeout(inactivityTimer);
  const timerDisplay = document.getElementById('timer-display');
  timerDisplay.innerHTML = "";

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Object.keys(colorVotes).forEach(color => {
  colorVotes[color] = 0;
});

const title = document.getElementById('party-title');
title.style.color = 'black';

const infoDisplay = document.getElementById('info-display');
infoDisplay.innerHTML = "";

const finalResults = document.getElementById('final-results');
finalResults.innerHTML = "";

colors = [...initialColors];
initializeParty();
}

function finishParty() {
  clearTimeout(inactivityTimer);
  const timerDisplay = document.getElementById('timer-display');
  timerDisplay.innerHTML = "";

  const mostPopularColor = Object.keys(colorVotes).reduce((a, b) =>
    colorVotes[a] > colorVotes[b] ? a : b
  );

  const finalResults = document.getElementById('final-results');
  finalResults.innerHTML = `
    <h3> Color Ganador de la Fiesta </h3>
    <div class="color-result" style="background-color:${mostPopularColor}; color:white;">
      ${mostPopularColor} (${colorVotes[mostPopularColor]} votos)
    </div>
  `;

  setTimeout(resetParty, 5000);
}

document.addEventListener('DOMContentLoaded', () => {
  initializeParty();
});
</script>
</body>
</html>

```