## index.html

```
<!DOCTYPE html>
<html lang="ja">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>花火調合ゲーム - 花火師の工房</title>
  <style>
    * {
       margin: 0;
       padding: 0;
       box-sizing: border-box;
       user-select: none;
    }
    body {
       font-family: 'Arial', sans-serif;
       background: linear-gradient(135deg, #2c1810 0%, #4a2c1a 100%);
       min-height: 100vh;
       color: #fff;
       overflow-x: hidden;
    }
     .header {
       background: rgba(0,0,0,0.3);
       padding: 15px;
       text-align: center;
       border-bottom: 2px solid #ff6b35;
    }
     .header h1 {
       font-size: 24px;
       color: #ff6b35;
       text-shadow: 2px 2px 4px rgba(0,0,0,0.5);
    }
     .countdown {
       font-size: 14px;
       color: #ffd700;
       margin-top: 5px;
    }
     .game-container {
       display: flex;
       flex-direction: column;
       padding: 20px;
       gap: 20px;
```

```
max-width: 600px;
  margin: 0 auto;
}
.ingredients-section {
  background: rgba(0,0,0,0.4);
  border-radius: 15px;
  padding: 20px;
  border: 2px solid #8b4513;
.section-title {
  font-size: 18px;
  color: #ffd700;
  margin-bottom: 15px;
  text-align: center;
}
.ingredients-grid {
  display: grid;
  grid-template-columns: repeat(auto-fit, minmax(80px, 1fr));
  gap: 10px;
.ingredient {
  background: linear-gradient(145deg, #8b4513, #a0522d);
  border-radius: 10px;
  padding: 10px;
  text-align: center;
  cursor: pointer;
  transition: all 0.3s ease;
  border: 2px solid transparent;
  min-height: 80px;
  display: flex;
  flex-direction: column;
  justify-content: center;
.ingredient:hover {
  transform: translateY(-2px);
  box-shadow: 0 4px 8px rgba(255,107,53,0.3);
  border-color: #ff6b35;
}
.ingredient.selected {
  background: linear-gradient(145deg, #ff6b35, #ff8c42);
  border-color: #ffd700;
}
```

```
.ingredient-icon {
  font-size: 24px;
  margin-bottom: 5px;
}
.ingredient-name {
  font-size: 12px;
  font-weight: bold;
}
.mixing-bowl {
  background: radial-gradient(circle, #2c2c2c 0%, #1a1a1a 100%);
  border-radius: 50%;
  width: 200px;
  height: 200px;
  margin: 20px auto;
  border: 4px solid #8b4513;
  position: relative;
  display: flex;
  align-items: center;
  justify-content: center;
  box-shadow: inset 0 0 20px rgba(0,0,0,0.5);
}
.bowl-contents {
  display: flex;
  flex-wrap: wrap;
  gap: 5px;
  justify-content: center;
  align-items: center;
  width: 150px;
  height: 150px;
  border-radius: 50%;
}
.bowl-ingredient {
  background: rgba(255,255,255,0.2);
  border-radius: 50%;
  width: 30px;
  height: 30px;
  display: flex;
  align-items: center;
  justify-content: center;
  font-size: 16px;
  animation: float 2s ease-in-out infinite;
}
```

```
@keyframes float {
  0%, 100% { transform: translateY(0px); }
  50% { transform: translateY(-5px); }
}
.controls {
  display: flex;
  gap: 10px;
  justify-content: center;
  margin-top: 20px;
}
.btn {
  padding: 12px 24px;
  border: none;
  border-radius: 25px;
  font-size: 16px;
  font-weight: bold;
  cursor: pointer;
  transition: all 0.3s ease;
  text-transform: uppercase;
}
.btn-craft {
  background: linear-gradient(45deg, #ff6b35, #ff8c42);
  color: white;
}
.btn-clear {
  background: linear-gradient(45deg, #666, #888);
  color: white;
}
.btn:hover {
  transform: translateY(-2px);
  box-shadow: 0 4px 8px rgba(0,0,0,0.3);
}
.btn:disabled {
  opacity: 0.5;
  cursor: not-allowed;
  transform: none;
}
.result-section {
  background: rgba(0,0,0,0.4);
  border-radius: 15px;
  padding: 20px;
```

```
border: 2px solid #4169e1;
  text-align: center;
  min-height: 150px;
}
.firework-display {
  font-size: 48px;
  margin: 20px 0;
  animation: sparkle 1s ease-in-out infinite;
}
@keyframes sparkle {
  0%, 100% { transform: scale(1); }
  50% { transform: scale(1.1); }
.firework-name {
  font-size: 20px;
  color: #ffd700;
  margin-bottom: 10px;
.firework-description {
  font-size: 14px;
  color: #ccc;
  line-height: 1.4;
}
.score-board {
  background: rgba(0,0,0,0.3);
  padding: 15px;
  border-radius: 10px;
  display: flex;
  justify-content: space-between;
  align-items: center;
}
.score-item {
  text-align: center;
}
.score-value {
  font-size: 24px;
  font-weight: bold;
  color: #ffd700;
.score-label {
```

```
font-size: 12px;
       color: #ccc;
    }
    .recipes-discovered {
       margin-top: 20px;
       background: rgba(0,0,0,0.3);
       padding: 15px;
       border-radius: 10px;
    }
    .recipe-item {
       display: flex;
       align-items: center;
       justify-content: space-between;
       padding: 8px;
       margin: 5px 0;
       background: rgba(255,255,255,0.1);
       border-radius: 5px;
       font-size: 14px;
    }
    .recipe-discovered {
       color: #90EE90;
    .recipe-unknown {
       color: #666;
  </style>
</head>
<body>
  <div class="header">
    <h1>| 花火師の工房 | ペ/h1>
    <div class="countdown" id="countdown">花火大会まで: 計算中...</div>
  </div>
  <div class="game-container">
    <div class="score-board">
       <div class="score-item">
         <div class="score-value" id="score">0</div>
         <div class="score-label">スコア</div>
       </div>
       <div class="score-item">
         <div class="score-value" id="discoveries">0</div>
         <div class="score-label">新発見</div>
       </div>
       <div class="score-item">
```

```
<div class="score-value" id="total-crafted">0</div>
         <div class="score-label">調合数</div>
       </div>
    </div>
    <div class="ingredients-section">
       <div class="section-title"> 調合材料</div>
       <div class="ingredients-grid" id="ingredients-grid">
         <!-- 材料がここに動的に追加される -->
       </div>
    </div>
    <div class="ingredients-section">
       <div class="section-title">
   調合釜</div>
       <div class="mixing-bowl">
         <div class="bowl-contents" id="bowl-contents">
           <div style="color: #666; font-size: 14px;">材料を選んで調合しよう
         </div>
       </div>
       <div class="controls">
         <button class="btn btn-craft" id="craft-btn" onclick="craftFirework()">調合する
</button>
         <br/><button class="btn btn-clear" onclick="clearBowl()">リセット</button>
       </div>
    </div>
    <div class="result-section">
       <div class="section-title">| 調合結果</div>
       <div id="result-display">
         <div style="color: #666; font-size: 16px; margin-top: 40px;">
           材料を調合して美しい花火を作ろう!
         </div>
       </div>
    </div>
    <div class="recipes-discovered">
       <div class="section-title">>> レシピ図鑑</div>
       <div id="recipes-list">
         <!-- レシピがここに表示される -->
       </div>
    </div>
  </div>
  <script>
    // 游戏数据
    const ingredients = [
       { id: 'potassium', name: '硝酸カリウム', icon: ' 🧂 ', type: 'base' },
      { id: 'sulfur', name: '硫黄', icon: '-, type: 'base' },
```

```
{ id: 'charcoal', name: '木炭', icon: '●', type: 'base' },
  { id: 'copper', name: '銅', icon: '●', type: 'color' },
  { id: 'strontium', name: 'ストロンチウム', icon: '●', type: 'color' },
  { id: 'barium', name: 'バリウム', icon: '●', type: 'color' },
  { id: 'sodium', name: 'ナトリウム', icon: 'e', type: 'color' },
  { id: 'magnesium', name: 'マグネシウム', icon: ' (), type: 'special' },
  { id: 'titanium', name: 'チタン', icon: '計', type: 'special' },
  { id: 'iron', name: '鉄粉', icon: '●', type: 'special' }
const recipes = [
  {
    name: '基本花火',
    ingredients: ['potassium', 'sulfur', 'charcoal'],
    icon: 'M',
    description: '伝統的な花火。シンプルな美しさ。',
    points: 10
  },
    name: '青い星',
    ingredients: ['potassium', 'sulfur', 'copper'],
    icon: '\'',
    description: '夜空に輝く青い星のような花火。',
    points: 15
  },
    name: '紅花火',
    ingredients: ['potassium', 'charcoal', 'strontium'],
    description: '情熱的な赤い花火。愛を込めて。',
    points: 15
  },
    name: '緑の風',
    ingredients: ['potassium', 'sulfur', 'barium'],
    description: '自然の風を感じる緑の花火。',
    points: 15
  },
    name: '黄金花',
    ingredients: ['potassium', 'charcoal', 'sodium'],
    icon: '''.
    description: '豪華絢爛な黄金色の花火。',
    points: 15
  },
    name: '白銀の輝き',
```

```
ingredients: ['potassium', 'magnesium', 'titanium'],
    icon: '\'',
    description: '清楚で美しい白銀の花火。',
    points: 20
  },
    name: '虹色花火',
    ingredients: ['copper', 'strontium', 'barium', 'sodium'],
    icon: '//-',
    description: '全ての色が混ざった虹色の花火。',
    points: 25
  },
    name: '流星花火',
    ingredients: ['magnesium', 'iron', 'titanium'],
    icon: '//',
    description: '流れ星のような軌跡を描く花火。',
    points: 30
  },
    name: '花火玉',
    ingredients: ['potassium', 'sulfur', 'charcoal', 'copper', 'strontium'],
    icon: '\",
    description: '大輪の花を咲かせる豪華な花火。',
    points: 35
  },
    name: '究極花火',
    ingredients: ['potassium', 'magnesium', 'copper', 'strontium', 'barium', 'titanium'],
    icon: '**,
    description: '全ての技術を結集した究極の花火。',
    points: 50
];
// ゲーム状態
let selectedIngredients = [];
let discoveredRecipes = new Set();
let score = 0;
let totalCrafted = 0;
// 初期化
function initGame() {
  renderIngredients();
  renderRecipesList();
  updateCountdown();
  setInterval(updateCountdown, 1000);
}
```

```
// 材料表示
function renderIngredients() {
  const grid = document.getElementById('ingredients-grid');
  grid.innerHTML = ";
  ingredients.forEach(ingredient => {
     const div = document.createElement('div');
     div.className = 'ingredient';
     div.innerHTML = `
       <div class="ingredient-icon">${ingredient.icon}</div>
       <div class="ingredient-name">${ingredient.name}</div>
     div.onclick = () => selectIngredient(ingredient.id);
     grid.appendChild(div);
  });
}
// 材料選択
function selectIngredient(ingredientId) {
  if (selectedIngredients.includes(ingredientId)) {
     selectedIngredients = selectedIngredients.filter(id => id !== ingredientId);
  } else if (selectedIngredients.length < 6) {
     selectedIngredients.push(ingredientId);
  }
  updateIngredientSelection();
  updateBowlContents();
}
// 材料選択状態更新
function updateIngredientSelection() {
  const ingredientElements = document.querySelectorAll('.ingredient');
  ingredientElements.forEach((element, index) => {
     const ingredientId = ingredients[index].id;
     if (selectedIngredients.includes(ingredientId)) {
       element.classList.add('selected');
    } else {
       element.classList.remove('selected');
  });
// 調合釜内容更新
function updateBowlContents() {
  const bowlContents = document.getElementById('bowl-contents');
  if (selectedIngredients.length === 0) {
```

```
bowlContents.innerHTML = '<div style="color: #666; font-size: 14px;">材料を選んで調
合しよう</div>';
         return:
       }
       bowlContents.innerHTML = ";
       selectedIngredients.forEach(ingredientId => {
         const ingredient = ingredients.find(ing => ing.id === ingredientId);
         const div = document.createElement('div');
         div.className = 'bowl-ingredient';
         div.innerHTML = ingredient.icon;
         div.style.animationDelay = Math.random() * 2 + 's';
         bowlContents.appendChild(div);
       });
    }
    // 花火調合
    function craftFirework() {
       if (selectedIngredients.length === 0) return;
       const sortedIngredients = [...selectedIngredients].sort();
       const recipe = recipes.find(r =>
         r.ingredients.length === sortedIngredients.length &&
         r.ingredients.every(ing => sortedIngredients.includes(ing))
       );
       totalCrafted++;
       if (recipe) {
         displayResult(recipe);
         score += recipe.points;
         if (!discoveredRecipes.has(<u>recipe.name</u>)) {
            discoveredRecipes.add(recipe.name);
            score += recipe.points; // ボーナスポイント
       } else {
         displayFailure();
         score += 5; // 失敗でも少しポイント
       }
       updateScoreBoard();
       renderRecipesList();
       clearBowl();
    }
    // 結果表示(成功)
    function displayResult(recipe) {
```

```
const resultDisplay = document.getElementByld('result-display');
       resultDisplay.innerHTML = `
         <div class="firework-display">${recipe.icon}</div>
         <div class="firework-name">${recipe.name}</div>
         <div class="firework-description">${recipe.description}</div>
         <div style="color: #ffd700; margin-top:</pre>
10px;">+${recipe.points}pt${!discoveredRecipes.has(recipe.name)?'(新発見ボーナス!)':
"}</div>
    // 結果表示(失敗)
    function displayFailure() {
       const resultDisplay = document.getElementById('result-display');
       const failures = [
         { icon: 'ۥ, text: '煙だけが出ました...', desc: '配合を見直してみましょう' },
         、
{ icon: '※', text: '小爆発!', desc: '危険ですが経験になりました' },
{ icon: 'ਡ', text: '霧のような煙', desc: '何かが足りないようです' },
         { icon: '♣', text: '小さな火花', desc: 'もう少しで成功しそうです' }
       ];
       const failure = failures[Math.floor(Math.random() * failures.length)];
       resultDisplay.innerHTML = `
         <div class="firework-display">${failure.icon}</div>
         <div class="firework-name">${failure.text}</div>
         <div class="firework-description">${failure.desc}</div>
         <div style="color: #ffd700; margin-top: 10px;">+5pt (経験値)</div>
    }
    // 調合釜リセット
    function clearBowl() {
       selectedIngredients = [];
       updateIngredientSelection();
       updateBowlContents();
    }
    // スコアボード更新
    function updateScoreBoard() {
       document.getElementById('score').textContent = score;
       document.getElementById('discoveries').textContent = discoveredRecipes.size;
       document.getElementById('total-crafted').textContent = totalCrafted;
    }
    // レシピリスト表示
    function renderRecipesList() {
       const recipesList = document.getElementById('recipes-list');
       recipesList.innerHTML = ";
```

```
recipes.forEach(recipe => {
         const div = document.createElement('div');
         div.className = 'recipe-item';
         if (discoveredRecipes.has(<u>recipe.name</u>)) {
            div.className += ' recipe-discovered';
            div.innerHTML = `
              <span>${recipe.icon} ${recipe.name}</span>
              <span>${recipe.points}pt</span>
         } else {
            div.className += ' recipe-unknown';
            div.innerHTML = `
              <span> ? ???</span>
              <span>???pt</span>
         }
         recipesList.appendChild(div);
      });
    }
    // カウントダウン更新
    function updateCountdown() {
       const now = new Date();
       const today = new Date(now.getFullYear(), now.getMonth(), now.getDate());
       const fireworkTime = new Date(today.getTime() + 19 * 60 * 60 * 1000); // 19:00
       if (now > fireworkTime) {
         fireworkTime.setDate(fireworkTime.getDate() + 1);
       }
       const diff = fireworkTime - now;
       const hours = Math.floor(diff / (1000 * 60 * 60));
       const minutes = Math.floor((diff % (1000 * 60 * 60)) / (1000 * 60));
       const seconds = Math.floor((diff % (1000 * 60)) / 1000);
       document.getElementById('countdown').textContent =
         `花火大会まで: ${hours}時間${minutes}分${seconds}秒`;
    }
    // ゲーム開始
    initGame();
  </script>
</body>
</html>
```