**CSS Explanation**

The CSS in the HTML document provides the visual style and layout for the YouTube-like interactive page. Here's a detailed breakdown:

**1. Global Styles**

body {

font-family: Arial, sans-serif;

margin: 0;

padding: 0;

background-color: #f0f0f0;

}

* **font-family**: Sets a clean, sans-serif font style (Arial) for all text on the page.
* **margin and padding**: Removes default spacing around the body for a consistent layout.
* **background-color: #f0f0f0;**: Sets a light gray background color to contrast with the white video cards.

**2. Header Styling**

header {

background-color: #FF0000;

color: white;

padding: 10px 20px;

display: flex;

align-items: center;

justify-content: space-between;

}

.logo {

font-size: 1.8em;

font-weight: bold;

}

.search-bar {

flex-grow: 1;

margin: 0 20px;

}

.search-bar input {

width: 100%;

padding: 10px;

border-radius: 20px;

border: 1px solid #ccc;

font-size: 1em;

}

* **Header Container (header)**:
  + **background-color: #FF0000;**: Applies YouTube's signature red color.
  + **display: flex;**: Aligns logo and search bar horizontally.
  + **justify-content: space-between;**: Positions the logo and search bar at opposite ends.
* **Logo (.logo)**:
  + Large, bold font emphasizes the site name.
* **Search Bar**:
  + **flex-grow: 1;**: Ensures the search bar expands to fill available space.
  + **border-radius: 20px;**: Rounds the edges of the input box.
  + **padding: 10px;**: Adds internal spacing for better usability.

**3. Video Cards Layout**

.videos {

display: flex;

flex-wrap: wrap;

padding: 20px;

}

.video-card {

background-color: white;

border-radius: 8px;

box-shadow: 0 4px 8px rgba(0, 0, 0, 0.2);

margin: 15px;

width: 300px;

overflow: hidden;

transition: transform 0.2s;

}

.video-card:hover {

transform: scale(1.05);

}

* **Videos Container (.videos)**:
  + **display: flex;**: Aligns video cards horizontally.
  + **flex-wrap: wrap;**: Ensures cards move to the next row if space runs out.
* **Video Card (.video-card)**:
  + **background-color: white;**: Stands out against the light gray background.
  + **box-shadow**: Adds a slight shadow for a 3D effect.
  + **margin: 15px;**: Provides spacing between cards.
  + **transition: transform 0.2s;**: Smoothly enlarges the card when hovered.
* **Hover Effect (.video-card:hover)**:
  + **transform: scale(1.05);**: Slightly enlarges the card to indicate interactivity.

**4. Video Content Styling**

.video-card img {

width: 100%;

display: block;

}

.video-info {

padding: 15px;

}

.video-title {

font-size: 1.2em;

font-weight: bold;

margin-bottom: 10px;

}

.video-details {

color: gray;

font-size: 0.9em;

margin-bottom: 10px;

}

* **Video Thumbnail (.video-card img)**:
  + Ensures the image spans the full width of the card.
* **Video Info Section (.video-info)**:
  + Adds internal padding for spacing.
* **Title and Details**:
  + **.video-title**: Bold and slightly larger to catch attention.
  + **.video-details**: Styled in gray and smaller font to appear as secondary information.

**5. Action Buttons**

.video-actions {

display: flex;

justify-content: space-around;

align-items: center;

}

.action-btn {

background-color: #FF0000;

color: white;

border: none;

padding: 8px 12px;

border-radius: 4px;

cursor: pointer;

transition: background-color 0.3s;

}

.action-btn:hover {

background-color: #CC0000;

}

* **Actions Container (.video-actions)**:
  + **display: flex;**: Arranges the buttons horizontally.
  + **justify-content: space-around;**: Spreads buttons evenly.
* **Action Buttons (.action-btn)**:
  + **background-color: #FF0000;**: Matches YouTube's branding.
  + **cursor: pointer;**: Indicates interactivity.
  + **transition: background-color 0.3s;**: Smoothly changes color on hover.
* **Hover Effect (.action-btn:hover)**:
  + Darkens the red to provide feedback when a user hovers over a button.

**Summary of the Styling**

* **Clean and Responsive Design**: The layout and styles adapt well to different screen sizes with a flexible search bar and video card arrangement.
* **Hover Effects**: Subtle animations (on video cards and buttons) enhance interactivity and user experience.
* **Consistent Branding**: The red accents mimic YouTube's theme while maintaining originality.