HTML & CSS - Exercises

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# Type Selector

**Define a CSS rule to style all paragraph elements to have blue text and bold font weight.**

|  |
| --- |
| <!DOCTYPE html>  <html>  <head>  <meta charset="UTF-8">  <meta name="viewport" content="width=device-width, initial-scale=1.0">  <title>Type Selector Exercise</title>  <link rel="stylesheet" href="styles.css">  </head>  <body>  <p>This is a paragraph.</p>  <p>Style me with CSS!</p>  </body>  </html> |
| p {  /\* Write your rule here \*/  } |

**Define a type selector to style all heading elements to have green text.**

|  |
| --- |
| <!DOCTYPE html>  <html>  <head>  <meta charset="UTF-8">  <meta name="viewport" content="width=device-width, initial-scale=1.0">  <title>Type Selector Exercise</title>  <link rel="stylesheet" href="styles.css">  </head>  <body>  <h1>This is a heading.</h1>  <h2>This is a subheading.</h2>  </body>  </html> |
| h1, h2 {    } |

**Style different HTML elements (h1, p, div) using type selectors.**

|  |
| --- |
| <!DOCTYPE html>  <html>  <head>  <meta charset="UTF-8">  <meta name="viewport" content="width=device-width, initial-scale=1.0">  <title>Type Selector Exercise</title>  <link rel="stylesheet" href="styles.css">  </head>  <body>  <h1>Heading 1</h1>  <p>Paragraph text.</p>  <div>Div content.</div>  </body>  </html> |
| h1 {    }  p {    }  div {  } |

# Class Selector

**Use a class selector to change the color of text inside elements with a specific class to red.**

|  |
| --- |
| <!DOCTYPE html>  <html>  <head>  <meta charset="UTF-8">  <meta name="viewport" content="width=device-width, initial-scale=1.0">  <title>Class Selector Exercise</title>  <link rel="stylesheet" href="styles.css">  </head>  <body>  <div class="highlight">This text should be red.</div>  <p class="highlight">This text should also be red.</p>  <p class="not-highlight">This should not be red.</p>  <p>This text should not be red.</p>  </body>  </html> |
| .highlight {    } |

**Write an example CSS rule using a class selector to change the background color of elements with a specific class.**

|  |
| --- |
| <!DOCTYPE html>  <html>  <head>  <meta charset="UTF-8">  <meta name="viewport" content="width=device-width, initial-scale=1.0">  <title>Class Selector Exercise</title>  <link rel="stylesheet" href="styles.css">  </head>  <body>  <div class="highlight">This should have a background color.</div>  <p class="highlight">This too!</p>  <p class="red">This is just a text!</p>  </body>  </html> |

**Apply a common style to multiple elements using a class selector.**

|  |
| --- |
| <!DOCTYPE html>  <html>  <head>  <meta charset="UTF-8">  <meta name="viewport" content="width=device-width, initial-scale=1.0">  <title>Class Selector Exercise</title>  <link rel="stylesheet" href="styles.css">  </head>  <body>  <div class="common-style">Element 1</div>  <p class="common-style">Element 2</p>  <p>Element 3</p>  </body>  </html> |
| .common-style {    } |

**Change the background color of elements with a specific class.**

|  |
| --- |
| <!DOCTYPE html>  <html>  <head>  <meta charset="UTF-8">  <meta name="viewport" content="width=device-width, initial-scale=1.0">  <title>Class Selector Exercise</title>  <link rel="stylesheet" href="styles.css">  </head>  <body>  <div class="highlight">This should have a different background color.</div>  <p class="highlight">So should this!</p>  <p>Hello World!</p>  </body>  </html> |
| .highlight {    } |

# Percentage Width

**Set the width of a div to 50% and observe how it changes with the browser window size.**

|  |
| --- |
| <!DOCTYPE html>  <html>  <head>  <meta charset="UTF-8">  <meta name="viewport" content="width=device-width, initial-scale=1.0">  <title>Percentage Width Exercise</title>  <link rel="stylesheet" href="styles.css">  </head>  <body>  <div class="percentage-width">Resize the window to see me change!</div>  </body>  </html> |
| .percentage-width {  } |

# Nested Divs

**Create a parent div with 60% width and a child div with 50% width of its parent. Apply some colors to better see the difference.**

|  |
| --- |
| <!DOCTYPE html>  <html>  <head>  <meta charset="UTF-8">  <meta name="viewport" content="width=device-width, initial-scale=1.0">  <title>Nested Divs Exercise</title>  <link rel="stylesheet" href="styles.css">  </head>  <body>  <div class="parent">  <div class="child">I'm 50% of my parent.</div>  </div>  </body>  </html> |

# Pixel Width

**Set the width of a div to 300px and observe its behavior when resizing the browser.**

|  |
| --- |
| <!DOCTYPE html>  <html>  <head>  <meta charset="UTF-8">  <meta name="viewport" content="width=device-width, initial-scale=1.0">  <title>Pixel Width Exercise</title>  <link rel="stylesheet" href="styles.css">  </head>  <body>  <div class="fixed-width">I have a fixed width of 300px.</div>  </body>  </html> |
| .fixed-width {  /\* Set width to 300px \*/  } |

# Pixel vs Percentage Width

**Create two divs, one with a width set in pixels and the other in percentages.**

|  |
| --- |
| <!DOCTYPE html>  <html>  <head>  <meta charset="UTF-8">  <meta name="viewport" content="width=device-width, initial-scale=1.0">  <title>Pixel vs Percentage Width Exercise</title>  <link rel="stylesheet" href="styles.css">  </head>  <body>  <div class="pixel-width">I have a fixed width of 300px.</div>  <div class="percentage-width">I have a width of 50%.</div>  </body>  </html> |
| .pixel-width {  /\* Set width to 300px \*/  }  .percentage-width {  /\* Set width to 50% \*/  } |

# EM Units

**Set the font-size of a parent div to 20px and a child div to 1.5em.**

|  |
| --- |
| <!DOCTYPE html>  <html>  <head>  <meta charset="UTF-8">  <meta name="viewport" content="width=device-width, initial-scale=1.0">  <title>EM Units Exercise</title>  <link rel="stylesheet" href="styles.css">  </head>  <body>  <div class="parent">  <div class="child">I am 1.5em of my parent.</div>  </div>  </body>  </html> |
| .parent {  /\* Set font-size to 20px \*/  }  .child {  /\* Set font-size to 1.5em \*/  } |

**Change the parent div's font-size to 10px and observe the change in the child div's font-size.**

|  |
| --- |
| <!DOCTYPE html>  <html>  <head>  <title>EM Units Exercise</title>  <link rel="stylesheet" href="styles.css">  </head>  <body>  <div class="parent">  <div class="child">I am 1.5em of my parent.</div>  </div>  </body>  </html> |
| .parent {  /\* Set font-size to 10px \*/  }  .child {  /\* Set font-size to 1.5em \*/  } |

# REM Units

**Set the root element's font-size to 16px and a div element's font-size to 2rem.**

|  |
| --- |
| <!DOCTYPE html>  <html>  <head>  <meta charset="UTF-8">  <meta name="viewport" content="width=device-width, initial-scale=1.0">  <title>REM Units Exercise</title>  <link rel="stylesheet" href="styles.css">  </head>  <body>  <div class="rem-size">I am 2rem.</div>  </body>  </html> |
| html {  /\* Set font-size to 16px \*/  }  .rem-size {  /\* Set font-size to 2rem \*/  } |

**Change the root element's font-size to 20px and observe the change in the div element's font-size.**

|  |
| --- |
| <!DOCTYPE html>  <html>  <head>  <meta charset="UTF-8">  <meta name="viewport" content="width=device-width, initial-scale=1.0">  <title> REM Units Exercise</title>  <link rel="stylesheet" href="styles.css">  </head>  <body>  <div class="rem-size">I am 2rem.</div>  </body>  </html> |

# Specificity

**Use a class and a type selector on the same element and see which style is applied.**

|  |
| --- |
| <!DOCTYPE html>  <html>  <head>  <meta charset="UTF-8">  <meta name="viewport" content="width=device-width, initial-scale=1.0">  <title>Specificity Exercise</title>  <link rel="stylesheet" href="styles.css">  </head>  <body>  <p class="highlight">This is a paragraph.</p>  </body>  </html> |
| p {  /\* Style for type selector \*/  }  .highlight {  /\* Style for class selector \*/  } |

**Apply both a class and an ID selector to the same element and see which style takes precedence.**

|  |
| --- |
| <!DOCTYPE html>  <html>  <head>  <meta charset="UTF-8">  <meta name="viewport" content="width=device-width, initial-scale=1.0">  <title>Specificity Exercise</title>  <link rel="stylesheet" href="styles.css">  </head>  <body>  <p id="unique" class="highlight">This is a paragraph.</p>  </body>  </html> |
| #unique {  /\* Style for ID selector \*/  }  .highlight {  /\* Style for class selector \*/  } |

# ID Selector

**Style elements with unique IDs.**

|  |
| --- |
| <!DOCTYPE html>  <html>  <head>  <meta charset="UTF-8">  <meta name="viewport" content="width=device-width, initial-scale=1.0">  <title>ID Selector Exercise</title>  <link rel="stylesheet" href="styles.css">  </head>  <body>  <div id="unique-element">Unique Element</div>  <div>Element</div>  </body>  </html> |

# Attribute Selector

**Style input elements based on their type attribute.**

|  |
| --- |
| <!DOCTYPE html>  <html>  <head>  <meta charset="UTF-8">  <meta name="viewport" content="width=device-width, initial-scale=1.0">  <title>Attribute Selector Exercise</title>  <link rel="stylesheet" href="styles.css">  </head>  <body>  <input type="text" placeholder="Text input">  <input type="submit" value="Submit">  </body>  </html> |
| input[type="text"] {  /\* Style for text input \*/  }  input[type="submit"] {  /\* Style for submit input \*/  } |

**Change the text color of links with a specific href attribute.**

|  |
| --- |
| <!DOCTYPE html>  <html>  <head>  <meta charset="UTF-8">  <meta name="viewport" content="width=device-width, initial-scale=1.0">  <title>Attribute Selector Exercise</title>  <link rel="stylesheet" href="styles.css">  </head>  <body>  <a href="https://example.com">Example Link</a>  <a href="https://another.com">Another Link</a>  </body>  </html> |
| a[href="https://example.com"] {    } |

# Universal Selector

**Use the universal selector to set a default margin and padding for all elements.**

|  |
| --- |
| <!DOCTYPE html>  <html>  <head>  <meta charset="UTF-8">  <meta name="viewport" content="width=device-width, initial-scale=1.0">  <title>Universal Selector Exercise</title>  <link rel="stylesheet" href="styles.css">  </head>  <body>  <div>Content with default margin and padding.</div>  </body>  </html> |
| \* {    } |

**Use the universal selector to set a default font-family and color for all elements.**

|  |
| --- |
| <!DOCTYPE html>  <html>  <head>  <title>Universal Selector Exercise</title>  <link rel="stylesheet" href="styles.css">  </head>  <body>  <div>Content with default font and color.</div>  </body>  </html> |
|  |

# Descendant Combinator

**Style nested elements using a descendant combinator.**

|  |
| --- |
| <!DOCTYPE html>  <html>  <head>  <meta charset="UTF-8">  <meta name="viewport" content="width=device-width, initial-scale=1.0">  <title>Descendant Combinator Exercise</title>  <link rel="stylesheet" href="styles.css">  </head>  <body>  <div>  <p>Descendant of div</p>  </div>  </body>  </html> |
| div p {    } |

# Combinator Comparison

**Compare descendant combinator and child combinator.**

|  |
| --- |
| <!DOCTYPE html>  <html>  <head>  <meta charset="UTF-8">  <meta name="viewport" content="width=device-width, initial-scale=1.0">  <title>Combinator Comparison Exercise</title>  <link rel="stylesheet" href="styles.css">  </head>  <body>  <div>  <p>Descendant</p>  <div>  <p>Child</p>  </div>  </div>  </body>  </html> |
| div p {  /\* Style for descendant combinator \*/  }  div > p {  /\* Style for child combinator \*/  } |

# Selector List

**Use a selector list to apply the same style to multiple elements.**

|  |
| --- |
| <!DOCTYPE html>  <html>  <head>  <meta charset="UTF-8">  <meta name="viewport" content="width=device-width, initial-scale=1.0">  <title>Selector List Exercise</title>  <link rel="stylesheet" href="styles.css">  </head>  <body>  <h1>Heading</h1>  <p>Paragraph</p>  <div>Div content</div>  </body>  </html> |
| h1, p, div {    } |

**Style both paragraph and heading elements using a selector list.**

|  |
| --- |
| <!DOCTYPE html>  <html>  <head>  <meta charset="UTF-8">  <meta name="viewport" content="width=device-width, initial-scale=1.0">  <title>Selector List Exercise</title>  <link rel="stylesheet" href="styles.css">  </head>  <body>  <h1>Heading</h1>  <p>Paragraph</p>  </body>  </html> |
|  |

# Child Combinator

**Use a child combinator to style direct children of a div element.**

|  |
| --- |
| <!DOCTYPE html>  <html>  <head>  <meta charset="UTF-8">  <meta name="viewport" content="width=device-width, initial-scale=1.0">  <title>Child Combinator Exercise</title>  <link rel="stylesheet" href="styles.css">  </head>  <body>  <div>  <p>Direct child of div</p>  <div>  <p>Nested child</p>  </div>  </div>  </body>  </html> |
| div > p {    } |

**Use a child combinator to style direct children of a specific class.**

|  |
| --- |
| <!DOCTYPE html>  <html>  <head>  <meta charset="UTF-8">  <meta name="viewport" content="width=device-width, initial-scale=1.0">  <title>Child Combinator Exercise</title>  <link rel="stylesheet" href="styles.css">  </head>  <body>  <div class="parent">  <p>Direct child of .parent</p>  <div>  <p>Nested child of .parent</p>  </div>  </div>  </body>  </html> |
| .parent > p {    } |

# Box Model

**Use CSS to demonstrate the box model by setting margin, border, padding, and content area values.**

|  |
| --- |
| <!DOCTYPE html>  <html>  <head>  <meta charset="UTF-8">  <meta name="viewport" content="width=device-width, initial-scale=1.0">  <title>Box Model Exercise</title>  <link rel="stylesheet" href="styles.css">  </head>  <body>  <div class="box">Box Model Example</div>  </body>  </html> |
| .box {  /\* margin, border, padding, and content area \*/  } |

**Calculate the total width of an element with specific width, padding, border, and margin values.**

|  |
| --- |
| <!DOCTYPE html>  <html>  <head>  <meta charset="UTF-8">  <meta name="viewport" content="width=device-width, initial-scale=1.0">  <title>Box Model Exercise</title>  <link rel="stylesheet" href="styles.css">  </head>  <body>  <div class="box">Calculate my total width</div>  </body>  </html> |
| .box {  width: 200px;  padding: 20px;  border: 5px solid black;  margin: 10px;  } |

# Display Property

**Set different display properties (block, inline, inline-block) for elements.**

|  |
| --- |
| <!DOCTYPE html>  <html>  <head>  <meta charset="UTF-8">  <meta name="viewport" content="width=device-width, initial-scale=1.0">  <title>Display Property Exercise</title>  <link rel="stylesheet" href="styles.css">  </head>  <body>  <div class="block">Block element</div>  <span class="inline">Inline element</span>  <div class="inline-block">Inline-block element</div>  </body>  </html> |
| .block {  }  .inline {  }  .inline-block {  } |

# Width Properties

**Set the width, min-width, and max-width of a div element.**

|  |
| --- |
| <!DOCTYPE html>  <html>  <head>  <meta charset="UTF-8">  <meta name="viewport" content="width=device-width, initial-scale=1.0">  <title>Width Properties Exercise</title>  <link rel="stylesheet" href="styles.css">  </head>  <body>  <div class="width-example">Resize the window to see me change!</div>  </body>  </html> |
| .width-example {  /\* Set width, min-width, and max-width \*/  } |

# Height Properties

**Set the height, min-height, and max-height of a div element.**

|  |
| --- |
| <!DOCTYPE html>  <html>  <head>  <meta charset="UTF-8">  <meta name="viewport" content="width=device-width, initial-scale=1.0">  <title>Height Properties Exercise</title>  <link rel="stylesheet" href="styles.css">  </head>  <body>  <div class="height-example">Resize the window to see me change!</div>  </body>  </html> |
| .height-example {    } |

# Margin, Border, Padding

**Set different margin, border, and padding values for a div element.**

|  |
| --- |
| <!DOCTYPE html>  <html>  <head>  <meta charset="UTF-8">  <meta name="viewport" content="width=device-width, initial-scale=1.0">  <title>Margin, Border, Padding Exercise</title>  <link rel="stylesheet" href="styles.css">  </head>  <body>  <div class="box-model">Box Model Example</div>  </body>  </html> |
| .box-model {  } |