

HTML Syntax and Documentation

| Concept | Example | |
|--|---|----------------------------------|
| Structure an HTML page (head & body) | html <html> <head> <title>My Page</title> </head> <body> My first paragraph </body> </html> | My Page → C |
| Paragraph tag | This is a paragraph. | This is a paragraph. |
| Create headings (adjust from 1 to 6) | <h1>Heading level 1</h1> <h6>Heading level 6</h6> | Heading level 1 |
| Div tag | <div>This is a div</div> | This is a div |
| Add an image | <pre></pre> | |
| Create a numbered list | <pre> George Washington John Adams </pre> | George Washington John Adams |
| Add a link to another web page which opens in a separate window/tab | <a <br="" href="https://www.google.com">target="_blank">This is a link to Google | This is a link to Google |
| Adding IDs | <pre>text</pre> | text |
| Adding Classes | <h1 class="aClass">text</h1> | text |
| Add a comment, which is not visible to the user, within an HTML page | These are instructions in the code. The user won't see them | |
| Add a link in the <head> of an HTML document to an external CSS file</head> | <pre><link href="style.css" rel="stylesheet" type="text/css"/></pre> | |
| Link to a JavaScript file | <pre><script src="index.js"></script></pre> | |

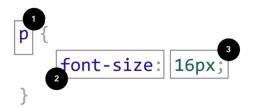
Syntax Reference

| Symbol | Name | Example |
|--------|-----------------|--|
| / | Forward Slash | <body></body> |
| 11 11 | Quotes | <pre></pre> |
| < > | Angle Brackets | <head> </head> |
| { } | Curly Brackets | p{color: blue;} |
| [] | Square Brackets | <pre>var colors = ["red", "blue", "yellow"];</pre> |
| () | Parenthesis | \$("h1").hide(); |
| ; | Semicolon | <pre>var word = "hello";</pre> |
| : | Colon | <pre>#two{font-size: 20px;}</pre> |

CSS Syntax and Documentation

Cascading Style Sheets (CSS) are used to change the way your HTML looks in a Web browser.

CSS Rules



- 1. **Selector:** Represents the parts of your HTML that will be affected by this CSS rule. Multiple selectors can be used, separated by commas.
- 2. **Property:** The thing you want to change for the HTML you've selected. Each property should be followed by a colon.
- 3. **Value:** What you want to set this property to. Each value should be followed by a semicolon.

A property and value together are called a **declaration**. A single CSS rule can contain multiple declarations.

CSS Value Types: Colors

| Value Type | Definition | Examples |
|---|--|---|
| Color names | Some colors can be used by typing the color name. | red yellow cornflowerblue |
| Hex codes | Hex codes start with a pound sign/hashtag, then 6 numbers or letters, 0-9 and a-f. | #000000 (black) #ffffff (white) #9400d3 (a shade of purple) |
| Tip: Try Googling "HTML color picker" to figure out the hex code for any color. | | |

CSS Selectors

| Selector Type | Definition | Example |
|-----------------------|--|---|
| HTML tag name | Selects all HTML elements with this tag name on the page. | <pre>p{color:red; }</pre> |
| ID | Selects the HTML element which has this value for its ID attribute. Use a hashtag/pound sign followed by the ID value. | <pre>#myID{ color:blue; }</pre> |
| Class | Selects the HTML element(s) with this value in its class attribute. Use a period followed by the class value. | <pre>.myClass{ color:green; }</pre> |
| HTML tag name + class | Selects the HTML element(s) with a certain name AND class. Use the tag name followed by a period, then the class. | <pre>p.myClass{ color:blue; }</pre> |

CSS Box Model

| Given this CSS | here's that <div> in Chrome Developer Tools:</div> | |
|--|--|--|
| <pre>div { width: 300px; height: 200px; padding: 30px; border: 10px solid red; margin: 40px; }</pre> | margin 40 border 10 padding 30 40 10 30 300 × 200 30 10 40 40 40 | |

- width and height apply only to the content box (the inner-most box, in blue).
- padding goes immediately outside the content box (as shown in green).
- border goes around the padding (as shown in yellow).
- margin goes around the border (as shown in orange).

CSS Documentation Reference

| Concept | Description | Example |
|---------------------------------|---|--|
| Font Styling | Changes the font and size of text on a webpage | <pre>body{ font-family: "Comic Sans"; font-size: 22px; }</pre> |
| Float | Allows an element to be placed on the left or right of a webpage | <pre>h1{ float: right; }</pre> |
| Position: Fixed vs. Absolute | A fixed element will not move while a page is scrolling. Absolute elements will move with the page. | <pre>div{ position: fixed; }</pre> |
| Background | Changes the background to a specified color or image. | <pre>body{background: url("ex.png"); }</pre> |

CSS Value Types: Sizing

| Value Type | Definition | Examples |
|-------------|--|---------------------------------------|
| Pixels | Use pixels when you want the element to be a certain size no matter the screen the user is viewing on. | height: 1000px; border-width: 5px; |
| Percentages | Use a percentage to change the size of the object based on the screen the user is viewing on. | width: 25%; font-size: 150%; |

GitHub Tips and Tricks

Git: A version control system for keeping history of and sharing coding projects. **GitHub:** The platform we use to use Git.

```
Step 1: git status

Step 2: git add .

Step 3: git commit -m "my comment"

Step 4: git push origin master
```

The four steps to pushing (saving) a change to GitHub

JavaScript Syntax and Documentation

Values/Types

| Concept | Syntax/Description | Examples |
|-----------|--|---|
| Number | | <pre>var rank = 1; var price = 5.99;</pre> |
| String | Must be inside single ('') or double ("") quotes | <pre>var name = "Kevin";</pre> |
| Boolean | true or false | <pre>var isTrue = true;</pre> |
| Array | Values separated by commas inside square brackets ([]) var anArray = [value1, value2, value3,]; | <pre>var oddNumbers = [1,3,5,7,9]; var places = ["Milan", "NYC", "Bangkok"];</pre> |
| Object | <pre>var objectName = { key1: value1, key2: value2 // etc. };</pre> | <pre>var profile = { name: "Ada", rank: 10, id: "1", likesScriptEd: true };</pre> |
| Undefined | Declared, but unassigned variables have a value of undefined. | <pre>var undefinedVariable; undefinedVariable; //undefined</pre> |

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Control Flow

| Concept | Syntax/Description | Examples |
|------------------|---|---|
| If-else if -else | <pre>if (condition1) { // execute these lines if // condition1 is true } else if (condition2) { // execute these lines if // condition2 is true } else { // execute these lines }</pre> | <pre>var num = 11; if (num < 5) { console.log("Less than 5"); } else if (num < 10) { console.log("Less than 10"); } else { console.log("Greater than 10"); } // Greater than 10</pre> |
| && (and) | <pre>if (conditionA && conditionB) { // code 1 } else { // code 2 } 'code 1' will happen only if BOTH conditionA and conditionB are true. Otherwise, code 2 happens.</pre> | <pre>if (age > 16 && passedTest) { return "you can drive."; } else { return "you can't drive."; }</pre> |
| (or) | <pre>if (conditionA conditionB){ // code 1 } else { // code 2 } If ANY of the conditions are true, code 1 will execute.</pre> | <pre>if (grade > 65 passedRegents) { return "passed the class"; } else { return "failed the class"; }</pre> |
| ! (not) | Returns the opposite Boolean of the expression. | (3 > 5) // false !(3 > 5) // true |
| For loop | <pre>for (declare; condition; modify) { does something; }</pre> | <pre>for (var i = 0; i < 5; i=i+1) { console.log(i); } // 0 1 2 3 4</pre> |

Variables

| Concept | Syntax/Description | Examples |
|---------------------|----------------------------|--|
| Variable assignment | var variableName = "value" | <pre>var thisIsAVariable = 5; var fifthLetter = "e";</pre> |

Operators

| Concept | Syntax/Description | Examples | |
|-----------------------|--|---|---|
| Strict Equality (===) | expressionA === expressionB | <pre>var a = 1; var b = 1;</pre> | <pre>a === b // true a === c // false</pre> |
| | Checks to see if both expressions are the same type and value, and if so, return true. | <pre>var c = "1"; var d = true;</pre> | a === d // false |

Functions

the page

| Concept | Syntax/Description | Examples |
|---|--|---|
| Function declaration (creating a new function with a name/identifier) | <pre>function functionName (parametersoptional) { // function body }</pre> | <pre>function add(a, b) { return a + b; }</pre> |
| Calling a function | functionName(arguments) | add(1,5); // 6 |

jQuery Syntax and Documentation

<script src="https://code.iquery.com/jquery-2.1.4.js"></script> Concept **Syntax** Example Prepares the \$(document).ready(function(){ \$(document).ready(function(){ document for ¡Query // Code to run goes here // Code to run goes here }); }); Run code when the \$(function() { \$(function() { alert("There are " + \$("p").length + document structure is // Code to run goes here fully loaded paragraphs on the page"); }); }); \$("p").append("...more text"); Append (attach) \$(selector).append(content); content to an element Change the content of \$("#id1").html("This is a dynamic web \$(selector).html(content); an element page."); Change the content of \$(selector).css(property, value); \$(".container").css("color", "red"); an element Add or change an \$(selector).attr(name, value); \$("img").attr("src", attribute "http://coolpics.com/rhinoceros.jpg"); Show an element \$(selector).show(); **\$**(".class1").show(); Hide an element \$(selector).hide(); \$("#quietID").hide(); \$("#one").click(function() { Do something when \$(selector).click(function() { an element is clicked // Code to run goes here alert("hello"); }); }); Get the value from \$(selector).val(); \$("button").click(function() { another element on var name = \$("#input").val();

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});