CSS

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figma

Academind: JS Data Structures, algorithms

scrum agile

css selector game

flex

Google: css tricks, css grid tricks; css modules, styled components, etc.

Frontend Masters

# CSS INTRODUCTION

|  |  |
| --- | --- |
| About CSS | CSS stands for Cascading Style Sheets and defines the visual presentation of HTML elements. Every CSS document is a collection of CSS rules. Every rule contains a selector (an identifier of the HTML element/s to be styled) and one or more declarations. |
| CSS Syntax | selector {  property: value; } |
| View CSS in the Browser | The CSS Viewer extension for Chrome shows the CSS parameters of any element in a web page. |

# ADD CSS TO AN HTML PAGE

|  |  |
| --- | --- |
| External Style Sheet (in <head>) | <link rel="stylesheet" type="text/css" href="site.css"> <!-- for several pages --> |
| Internal Style Sheet  (in <head>) | <style>...</style> <!-- when a single document has a unique style --> |
| Inline Style | <p *style*="color:red">Some red text</p> |
| Style Inheritance | When the same element is styled differently, the last style overwrites the previous ones. In increasing order of priority: external styles, internal styles, inline styles, !important. |

# CSS PROPERTIES

|  |  |
| --- | --- |
| Background | background-color: #fff | transparent | navy | rgb(125, 125, 125);  background-image: url(../image.jpg);  background-repeat: repeat | repeat-x | repeat-y | no-repeat;  background-position: top left; |
| Text | (text-)color: #000 | red | #05ffb0 | rgb(125, 125, 255) | rgba(255, 0, 0, 0.5);  text-align: left | right | center | justify;  text-decoration: underline | overline | line-through | none;  text-transform: uppercase | lowercase | capitalize;  text-indent: 50px; /\* the indentation of the first line \*/  line-height: 1.5 | 16px; /\* relative to the font size or in px \*/  overflow: scroll | hidden; /\* behaviour in case of overflowing \*/  text-overflow: ellipsis; /\* + width, whitespace: nowrap, overflow: hidden \*/  overflow-x: scroll; /\* adds a horizontal scroller \*/  overflow-y: scroll; /\* adds a vertical scroller \*/  word-break: normal | break-all; /\* the word break at the end of the line \*/  text-shadow: none | 2px 4px 10px red; /\* horizontal, vertical, blur, color \*/ |
| Font | font-family: Verdana, Arial, sans-serif; /\* family name \*/  font-family: serif | sans-serif | monospace | cursive | fantasy /\* generic name \*/  font-style: italic | normal | oblique; /\* oblique: more slanted than italic \*/  font-size: 16px; /\* default: 18px \*/  font-size: 1rem; /\* relative to the root's font size (body element) \*/  font-size: 1em; /\* relative to the parent element's font size \*/  font-weight: bold | bolder | normal | 100; /\* 100: thin, 900: bolder \*/  letter-spacing: normal | 2px; /\* the spacing between the characters \*/ |
| Border | border-style: solid | dotted | dashed | double;  border-color: #C00;  border-width: 2px; |
| Margin | margin-top: 10px;  margin-right: 10px;  margin-bottom: 10px;  margin-left: 10px; |
| Padding | padding-top: 10px;  padding-right: 10px;  padding-bottom: 10px;  padding-left: 10px; |
| Outline | outline-width: 4px; /\* the width of the element's outline \*/  outline-style: dotted; /\* the style of the element's outline \*/  outline-color: 4px; /\* the color of the element's outline \*/  outline: 4px dotted red; /\* width, style, color \*/ |
| List Styles | list-style-type: none | circle | disc;  list-style-position: inside | outside;  list-style-image: url(../image); |
| Cursor | cursor: pointer | move; /\* the mouse cursor when covering the element \*/ |

# CSS SELECTORS

## PRIMARY SELECTORS

|  |  |
| --- | --- |
| Select All HTML Elements | \* { /\* applies to all elements \*/  background-color: blue;  } |
| Select by Tag | h1 { /\* applies to all <h1> elements \*/  background-color: blue;  text-align: center;  } |
| Select by ID | nav#top { /\* applies to nav element with id "top" \*/  background-color: blue; } |
| Select by Class | nav.top { /\* applies to all nav elements with class "top" \*/  background-color: blue; }  .code { /\* applies to all elements with class "code" \*/  font-family: Helvetica, sans-serif; } |
| Multiple Selectors | h1, h2, p {  background: yellow; } |
| Select by Pseudo-Class | a:hover { /\* applies to all <a> elements when the user's mouse is over them \*/  text-decoration: underline;  } |

## NESTED SELECTORS

|  |  |
| --- | --- |
| Descendant | article p {  padding: 10px; } |
| Adjacent Sibling | p + p {  font-style: italic; } |
| Direct Child | div > p {  font-style: italic; } |
| Multiple Classes | .top.bottom {  font-style: italic; } |
| Attribute Selectors | a[title="menu"] {  text-decoration: none; } |

# PSEUDO-CLASSES

|  |  |
| --- | --- |
|  | a:hover { ... } /\* all <a> elements when the user's mouse is over them \*/  p:first-child { ... } /\* only the first <p> \*/  tr:nth-child(odd) { ... } /\* all odd <tr> elements (1st, 3rd, 5th, etc.) \*/  p:lang  tbody tr:nth-child(odd):not(:hover) td { ... } /\* all <td>'s in a <tr> when the user's mouse is NOT over the <tr> \*/ |
|  |  |
|  |  |

# CSS & TYPOGRAPHY

|  |  |
| --- | --- |
| Specify Fonts | font-family: Verdana, sans-serif;  /\* if the user doesn't have Verdana: web safe font from the sans-serif family \*/ |
| Use Google Fonts | Google Fonts is a place where we can check a font (type somethyng in cyrillic!). Click on "Select this style" to see how to use the current font (use @import for Judge). |
| Download Google Fonts | Download the font, place its folder into the project folder and type in the CSS file:  @font-face {  font-family: "Gret";  src: url("./Gret/Gret-bold.woff") format("woff"); /\* .ttf > format("truetype") \*/  } |
| Font Awsome Icons | index.html: <i *class*="fas fa-star"></i>  style.css: @import url("*Font Awsome > Sign In > Profile Pic > Font Awsome CDN > get href value from <link>*"); |

# CSS WEBSITE LAYOUT

## BOX MODEL

|  |  |
| --- | --- |
| About CSS Box Model | It is a box that wraps around every HTML element and consists of (from outside to inside) margins, borders, padding and the actual content. |
| Block Elements | Start on a new line and fill up the horizontal space left and right: main, header, article, section, fieldset, nav, ul, ol, li, form, h1-h6, p, div, etc. |
| Inline Elements | Don't start on a new line, margin and padding can be added just on the right and left sides, width ant height are not applied: a, label, map, span, strong, em, i, img, textarea, input, button, select, etc. |
| Inline-Block Elements | Don't start on a new line, but can have padding and margin added on all four sides. Declaration in CSS code: display: inline-block;. |
| Width and Height Dimensions | width: auto; /\* adjusts to display the content correctly \*/  width: 240px | 1(r)em;  width: 50%; /\* 50% of the container's width \*/  max-width: none | 200px | 50%; /\* the maximum width of the element \*/  min-width: none | 200px | 50%; /\* the minimum width of the element \*/  height: auto | 240px | 1(r)em | 50%;  max-height: none | 200px | 50%; /\* the maximum width of the element \*/  min-height: none | 200px | 50%; /\* the minimum width of the element \*/ |
| Overflow | overflow: scroll | hidden; /\* container behaviour in case the content doesn't fit \*/  text-overflow: ellipsis; /\* + width, whitespace: nowrap, overflow: hidden \*/  overflow-x: scroll; /\* adds a horizontal scroller \*/  overflow-y: scroll; /\* adds a vertical scroller \*/ |
| Margins and Paddings | margin-top: 10px;  margin-right: 20px;  margin-bottom: 30px;  margin-left: 40px; |