기초웹

22 Winter CNU 기초 스터디

21 남정연

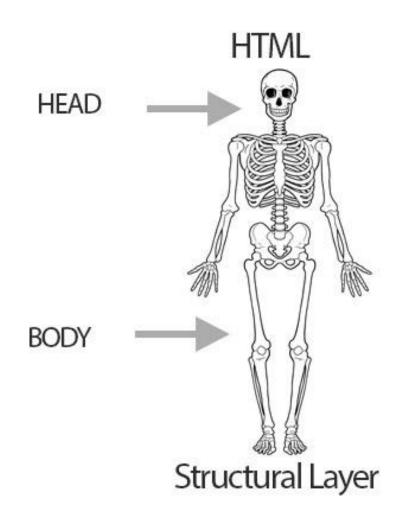
21 박준서

What is CSS?

Cascading Style Sheet

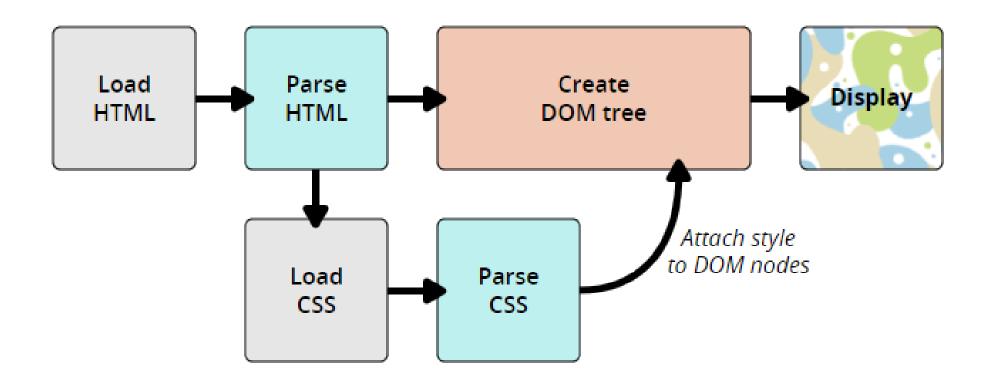
종속되는 스타일 시트

HTML vs CSS





How CSS works



External Stylesheet

```
<!DOCTYPE html>
<html>
  <head>
   <meta charset="utf-8">
   <title>My CSS experiment</title>
   <link rel="stylesheet" href="styles.css">
  </head>
  <body>
   <h1>Hello World!</h1>
   This is my first CSS example
  </body>
</html>
```

Internal Stylesheet

```
ŝ
<!DOCTYPE html>
<html>
 <head>
   <meta charset="utf-8">
   <title>My CSS experiment</title>
   <style>
     h1 {
       color: blue;
       background-color: yellow;
       border: 1px solid black;
       color: red;
   </style>
 </head>
 <body>
   <h1>Hello World!</h1>
   This is my first CSS example
 </body>
</html>
```



Inline Styles



Anatomy of Style Sheet

```
Selector
         color: red;
           Property
                      Property value
                 Declaration
```

* Case Sensitive

CSS Comments

```
/* Handle basic element styling */
/* -----*/
body {
 font: 1em/150% Helvetica, Arial, sans-serif;
 padding: 1em;
 margin: 0 auto;
 max-width: 33em;
@media (min-width: 70em) {
 /* Increase the global font size on larger screens or windows
   for better readability */
 body {
  font-size: 130%;
h1 {font-size: 1.5em;}
/* Handle specific elements nested in the DOM */
/* ------*/
div p, #id:first-line {
 background-color: red;
 border-radius: 3px;
```

HTML Attribute

```
Attribute
class="editor-note">My cat is very grumpy
```

* Empty Element

HTML Boolean Attribute

```
<!-- Boolean Attribute -->

<!-- Disable: true -->

<input type="text" disabled="disabled">

<input type="text" disabled>

<!-- Disable: false -->

<input type="text">
```

CSS Selectors

Selector name	What does it select	Example	
Element selector (sometimes called a tag or type selector)	All HTML elements of the specified type.	p selects	
ID selector	The element on the page with the specified ID. On a given HTML page, each id value should be unique.	#my-id selects or 	
Class selector	The element(s) on the page with the specified class. Multiple instances of the same class can appear on a page.	.my-class selects and 	
Attribute selector	The element(s) on the page with the specified attribute.	<pre>img[src] selects but not </pre>	
The specified element(s), but only when in the specified state. (For example, when a cursor hovers over a link.)		a:hover selects <a>, but only when the mouse pointer is hovering over the link.	

Universal Selector

Universal selector

Veggies es bonus vobis, proinde vos postulo essum magis kohlrabi welsh onion daikon amaranth tatsoi tomatillo melon azuki bean garlic.

```
* {
    color : ■green;
}
```

```
<h1>Universal selector</h1>

    Veggies es bonus vobis, proinde vos postulo essum magis
    <span>kohlrabi welsh onion</span>
    daikon amaranth tatsoi tomatillo
    melon azuki bean garlic.

    Gumbo beet greens corn soko
    <strong>endive</strong>
    gumbo gourd. Parsley shallot courgette tatsoi pea sprouts
    fava bean collard greens dandelion okra wakame tomato.
    Dandelion cucumber earthnut pea peanut soko zucchini.
```

Type Selector

Alias: tag name selector, element selector

Type selectors

Veggies es bonus vobis, proinde vos postulo essum magis kohlrabi welsh onion daikon amaranth tatsoi tomatillo melon azuki bean garlic.

Gumbo beet greens corn soko **endive** gumbo gourd. Parsley shallot courgette tatsoi pea sprouts fava bean collard greens dandelion okra wakame tomato. Dandelion cucumber earthnut pea peanut soko zucchini.

Turnip greens yarrow ricebean rutabaga endive cauliflower sea lettuce kohlrabi amaranth water spinach avocado daikon napa cabbage asparagus winter purslane kale. Celery potato scallion desert raisin horseradish spinach

```
background-color: yellow;
    coror: rebeccapurple;
    color: rebeccapurple;
<h1>Type selectors</h1>
Yeggies es bonus vobis, proinde vos postulo essum magis <span>kohlrabi welsh onion</span> daikon
amaranth tatsoi tomatillo
    melon azuki bean garlic.
Gumbo beet greens corn soko <strong>endive</strong> gumbo gourd. Parsley shallot courgette tatsoi
pea sprouts fava bean collard
    greens dandelion okra wakame tomato. Dandelion cucumber earthnut pea peanut soko zucchini.
Turnip greens yarrow ricebean rutabaga <em>endive cauliflower</em> sea lettuce kohlrabi amaranth
    daikon napa cabbage asparagus winter purslane kale. Celery potato scallion desert raisin
horseradish spinach
```

ID Selector

ID selector

Veggies es bonus vobis, proinde vos postulo essum magis kohlrabi welsh onion daikon amaranth tatsoi tomatillo melon azuki bean garlic.

```
background-color: yellow;
}

h1#heading {
    color: rebeccapurple;
}

<h1 id="heading">ID selector</h1>
Yeggles es bonus vobis, proinde vos postulo essum magis kohlrabi welsh onion daikon amaranth tatsoi tomatillo melon azuki bean garlic.
id="one">Gumbo beet greens corn soko <strong>endive</strong> gumbo gourd. Parsley shallot courgette tatsoi pea sprouts fava bean collard greens dandelion okra wakame tomato. Dandelion cucumber earthnut pea peanut soko zucchini.
```

Class Selector

Class selectors

Veggies es bonus vobis, proinde vos postulo essum magis kohlrabi welsh onion daikon amaranth tatsoi tomatillo melon azuki bean garlic.

Gumbo beet greens corn soko **endive** gumbo gourd. Parsley shallot courgette tatsoi pea sprouts fava bean collard greens dandelion okra wakame tomato. Dandelion cucumber earthnut pea peanut soko zucchini.

```
.highlight {
    background-color: yellow;
}
```

<h1 class="highlight">Class selectors</h1>

Yeggies es bonus vobis, proinde vos postulo essum magis kohlrabi welsh onion daikon amaranth tatsoi tomatillo melon azuki bean garlic.

Presence and Value Selectors

Selector	Example	Description
[attr]	a[title]	Matches elements with an attr attribute (whose name is the value in square brackets).
[attr=value]	a[href="https://example.com"]	Matches elements with an attr attribute whose value is exactly value — the string inside the quotes.
[attr~=value]	p[class~="special"]	Matches elements with an attr attribute whose value is exactly value, or contains value in its (space separated) list of values.
[attr =value]	div[lang ="zh"]	Matches elements with an attr attribute whose value is exactly value or begins with value immediately followed by a hyphen.

Presence and Value Selectors

Attribute presence and value selectors

- Item 1
- Item 2
- Item 3
- Item 4

```
li[class] {
    font-size: 200%;
}

li[class="a"] {
    background-color: yellow;
}

li[class~="a"] {
    color: red;
}
```

Substring Matching Selectors

Selector	Example	Description
[attr^=value]	li[class^="box-"]	Matches elements with an attr attribute, whose value begins with value.
[attr\$=value]	li[class\$="-box"]	Matches elements with an attr attribute whose value ends with value.
[attr*=value]	li[class*="box"]	Matches elements with an attr attribute whose value contains value anywhere within the string.

Substring Matching Selectors

Attribute substring matching selectors

- Item 1
- Item 2
 - Item 3
 - Item 4

```
li[class^="a"] {
    font-size: 200%;
}

li[class$="a"] {
    background-color: yellow;
}

li[class*="a"] {
    color: red;
}
```

Case-sensitivity

Case-insensitivity

- Item 1
- Item 2
- Item 3

```
li[class^="a"] {
    background-color: yellow;
}
li[class^="a" i] {
    color: red;
}
```

```
<h1>Case-insensitivity</h1>

cli class="a">Item 1
Item 2
Item 3
```

Pseudo-class

:pseudo-class-name

pseu-do

1. 허위의, 가짜의; 모조의 2. 꾸며 보이는 사람, 사칭자



1. 허위의, 가짜의; 모조의

Pseudo-class

Gumbo beet greens corn soko endive gumbo gourd. Parsley shallot courgette tatsoi pea sprouts fava bean collard greens dandelion okra wakame tomato. Dandelion cucumber earthnut pea peanut soko zucchini.

Veggies es bonus vobis, proinde vos postulo essum magis kohlrabi welsh onion daikon amaranth tatsoi tomatillo melon azuki bean garlic.

Pseudo-class

Hover over me

- <u>:hover</u> mentioned above; this only applies if the user moves their pointer over an element, typically a link.
- <u>:focus</u> only applies if the user focuses the element by clicking or using keyboard controls.

```
a:link,
a:visited {
    color: rebeccapurple;
    font-weight: bold;
}
a:hover {
    color:hotpink;
}
```

Hover over me

:is()

```
/* Selects any paragraph inside a header, main
   or footer element that is being hovered */
:is(header, main, footer) p:hover {
  color: red;
  cursor: pointer;
/* The above is equivalent to the following */
header p:hover,
main p:hover,
footer p:hover {
  color: red;
  cursor: pointer;
```



:not()

```
/* Selects any element that is NOT a paragraph */
:not(p) {
  color: blue;
}
```



:nth-child()

```
/* Selects the second  element in a list */
li:nth-child(2) {
  color: lime;
}

/* Selects every fourth element
  among any group of siblings */
:nth-child(4n) {
  color: lime;
}
```

:only-child()

The :only-child CSS pseudo-class represents an element without any siblings. This is the same as :first-child:last-child or :nth-child(1):nth-last-child(1), but with a lower specificity.

```
/* Selects each , but only if it is the */
/* only child of its parent */
p:only-child {
  background-color: lime;
}
```



Pseudo-element

::pseudo-element-name

Pseudo-element

Veggies es bonus vobis, proinde vos postulo essum magis kohlrabi welsh onion daikon amaranth tatsoi tomatillo melon azuki bean garlic.

Gumbo beet greens corn soko endive gumbo gourd. Parsley shallot courgette tatsoi pea sprouts fava bean collard greens dandelion okra wakame tomato. Dandelion cucumber earthnut pea peanut soko zucchini.

Veggies es bonus vobis, proinde vos postulo

essum magis kohlrabi welsh onion daikon amaranth tatsoi tomatillo melon azuki bean garlic.

Gumbo beet greens corn soko endive gumbo

gourd. Parsley shallot courgette tatsoi pea sprouts fava bean collard greens dandelion okra wakame tomato. Dandelion cucumber earthnut pea peanut soko zucchini.

```
article p::first-line {
    font-size: 120%; /* 160% */
    font-weight: bold;
}
```

::before

This should show before the other content. Content in the box in my HTML page.

Interactive editor

```
.box::before {
    content: "This should show before the other content."
}
```

Content in the box in my HTML page.

∷before



Interactive editor

```
.box::before {
    content: "";
    display: block;
    width: 100px;
    height: 100px;
    background-color: rebeccapurple;
    border: 1px solid black;
}
```

Content in the box in my HTML page.



Content in the box in my HTML page. →

Interactive editor

```
.box::after {
    content: " ➡"
}
```

Content in the box in my HTML page.

Combining pseudo-classes & elements

```
article p:first-child::first-line {
  font-size: 120%;
  font-weight: bold;
}
```

Descendant combinator

Text in .box

Text not in .box

Interactive editor

```
.box p {
    color: red;
}
```

<div class="box">Text in .box</div>Text not in .box

Descendant combinator

Text in .box

Text not in .box

Interactive editor

```
.box p {
    color: red;
}
```

<div class="box"><div class="boxbox">Text in .box</div>

Child combinator

- Unordered item
- Unordered item
 - 1. Item 1
 - 2. Item 2

Interactive editor

```
ul > li {
    border-top: 5px solid red;
}

    Unordered item
    Unordered item
    Unordered item
    Unordered item
    Item 1
    Item 2
```

Child combinator

- Unordered item
- Unordered item
 - 1. Item 1
 - 2. Item 2

Interactive editor

```
ul > li {
    border-top: 5px solid red;
}

    Unordered item
    Unordered item
    Unordered item
    Unordered item
    Item 1
    Item 2
```

Child combinator

Text in .box

Text not in .box

Interactive editor

```
.box > p {
    color: red;
}
```

<div class="box"><div class="boxbox">Text in .box</div></div>Text not in .box

Adjacent sibling combinator

A heading

Veggies es bonus vobis, proinde vos postulo essum magis kohlrabi welsh onion daikon amaranth tatsoi tomatillo melon azuki bean garlic.

```
h1 + p {
    font-weight: bold;
    background-color: #333;
    color: #fff;
    padding: .5em;
}
```

Adjacent sibling combinator

Veggies es bonus vobis, proinde vos postulo essum magis kohlrabi welsh onion daikon amaranth tatsoi tomatillo melon azuki bean garlic.

A heading

Veggies es bonus vobis, proinde vos postulo essum magis kohlrabi welsh onion daikon amaranth tatsoi tomatillo melon azuki bean garlic.

Gumbo beet greens corn soko endive gumbo gourd. Parsley shallot courgette tatsoi pea sprouts fava bean collard greens dandelion okra wakame tomato. Dandelion cucumber earthnut pea peanut soko zucchini.

```
h1 + p {
    font-weight: bold;
    background-color: #333;
    color: #fff;
    padding: .5em;
}
```

```
<article>
   Yeggies es bonus vobis, proinde vos postulo essum
magis kohlrabi welsh onion daikon amaranth tatsoi
tomatillo
           melon azuki bean garlic.
   <h1>A heading</h1>
   Veggies es bonus vobis, proinde vos postulo essum
magis kohlrabi welsh onion daikon amaranth tatsoi
tomatillo
           melon azuki bean garlic.
   Gumbo beet greens corn soko endive gumbo gourd.
Parsley shallot <u>courgette</u> tatsoi pea sprouts fava bean
collard
           greens dandelion okra wakame tomato. Dandelion
cucumber earthnut pea peanut soko zucchini.
   Gumbo beet greens corn soko endive gumbo gourd.
Parsley shallot courgette tatsoi pea sprouts fava bean
           greens dandelion okra wakame tomato. Dandelion
cucumber earthnut pea peanut soko zucchini.
</article>
```

Adjacent sibling combinator

Veggies es bonus vobis, proinde vos postulo essum magis kohlrabi welsh onion daikon amaranth tatsoi tomatillo melon azuki bean garlic.

A heading

Veggies es bonus vobis, proinde vos postulo essum magis kohlrabi welsh onion daikon amaranth tatsoi tomatillo melon azuki bean garlic.

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```
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    font-weight: bold;
    background-color: #333;
    color: #fff;
    padding: .5em;
}
```

```
<article>
   Yeggies es bonus vobis, proinde vos postulo essum
magis kohlrabi welsh onion daikon amaranth tatsoi
tomatillo
           melon azuki bean garlic.
   <h1>A heading</h1>
   Veggies es bonus vobis, proinde vos postulo essum
magis kohlrabi welsh onion daikon amaranth tatsoi
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           melon azuki bean garlic.
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Parsley shallot <u>courgette</u> tatsoi pea sprouts fava bean
collard
           greens dandelion okra wakame tomato. Dandelion
cucumber earthnut pea peanut soko zucchini.
   Gumbo beet greens corn soko endive gumbo gourd.
Parsley shallot courgette tatsoi pea sprouts fava bean
           greens dandelion okra wakame tomato. Dandelion
cucumber earthnut pea peanut soko zucchini.
</article>
```

General sibling combinator

A heading

I am a paragraph.

I am a div

I am another paragraph.

```
h1 ~ p {
    font-weight: bold;
    background-color: #333;
    color: #fff;
    padding: .5em;
}
```

Using Combinators!

```
ul > li[class="a"] { }
```