

# CSS:

# Cascading Style Sheets

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# Basic Info

- CSS is used to describe the presentation of a document written in HTML.
- CSS describes how **elements** should be rendered on screen.

# Syntax

- CSS declarations
- A property and value pair is called a **declaration**
- The pair is separated by a colon, ':', and white spaces before, between, and after properties and values, but not necessarily inside, are ignored.

↓ property

background-color : red;

↑ property

- CSS declarations blocks
- Declarations are grouped in blocks, that is in a structure delimited by an opening brace, '{', and a closing one, '}'.

{

background-color : red;

background-style : none;

}

# Three Ways to use CSS in HTML

- Inline - by using the style attribute in HTML elements
- Internal - by using a <style> element in the <head> section
- External - by using an external CSS file

# Inline

```
index.html
```

```
-----
```

```
...
```

```
<h1>This is a Heading</h1>
```

```
<p style="color:red;">Hello everyone!</p>
```

```
...
```

# Internal

```
index.html
```

```
-----
```

```
...
```

```
<style>
```

```
  p{
```

```
    color:red;
```

```
  }
```

```
</style>
```

```
</head> <!-- internal CSS declarations should before the head tag -->
```

```
...
```

```
<h1>This is a Heading</h1>
```

```
<p>Hello everyone!</p>
```

```
...
```

# External

index.html

```
-----  
<link href="styles/style.css"  
rel="stylesheet" type="text/css"/>  
</head>  
...  
<h1>This is a Heading</h1>  
<p>Hello everyone!</p>  
...
```

style/style.css

```
-----  
p{  
    color:red;  
}
```

- The value from the last read style sheet will be used.



# Selectors

- Selectors are used to **target the HTML elements** on our web pages that we want to style.
- Element selectors
- Class selectors
- ID selectors

```
<p>What color do you like?</p>
```

```
<h1>I like blue.</h1>
```

```
<p>I prefer red!</p>
```

```
<ul>
```

```
  <li class="first">Create an HTML document</li>
```

```
  <li>Create a CSS style sheet</li>
```

```
  <li id="third">Link them all together</li>
```

```
</ul>
```

# Element selectors

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

```
<p>What color do you like?</p>
```

```
<h1>I like blue.</h1>
```

```
<p>I prefer red!</p>
```

```
<ul>
```

```
  <li class="first">Create an HTML document</li>
```

```
  <li>Create a CSS style sheet</li>
```

```
  <li id="third">Link them all together</li>
```

```
</ul>
```

# Class selectors

```
.first {  
    color:red;  
}
```

```
<p>What color do you like?</p>
```

```
<h1>I like blue.</h1>
```

```
<p>I prefer red!</p>
```

```
<ul>
```

```
  <li class="first">Create an HTML document</li>
```

```
  <li>Create a CSS style sheet</li>
```

```
  <li id="third">Link them all together</li>
```

```
</ul>
```

# ID selectors

```
#third {  
    color:red;  
}
```

```
<p>What color do you like?</p>
```

```
<h1>I like blue.</h1>
```

```
<p>I prefer red!</p>
```

```
<ul>
```

```
  <li class="first">Create an HTML document</li>
```

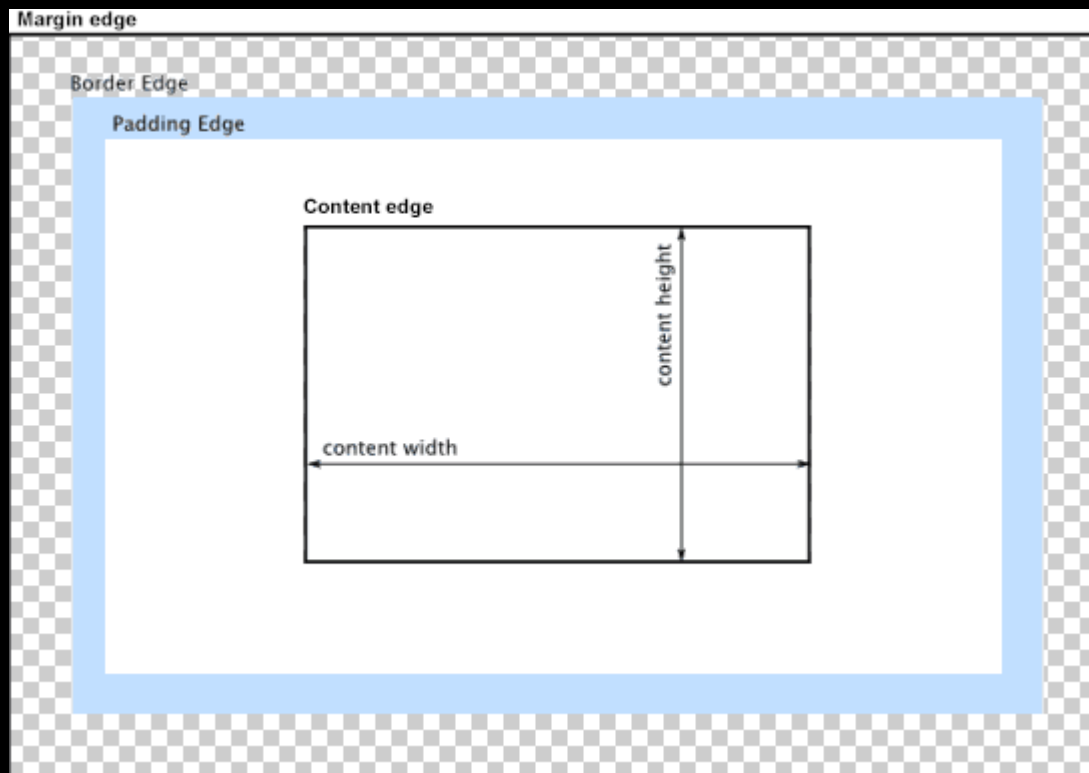
```
  <li>Create a CSS style sheet</li>
```

```
  <li id="third">Link them all together</li>
```

```
</ul>
```



# Box model



Relative properties:

- margin
- padding
- border
  
- height
- width

# Box model

- <https://developer.mozilla.org/en-US/docs/Web/CSS/margin>
- <https://developer.mozilla.org/en-US/docs/Web/CSS/padding>
- <https://developer.mozilla.org/en-US/docs/Web/CSS/border>
- <https://developer.mozilla.org/en-US/docs/Web/CSS/height>
- <https://developer.mozilla.org/en-US/docs/Web/CSS/width>

# color

- <https://developer.mozilla.org/en-US/docs/Web/CSS/color>

# Background

- <https://developer.mozilla.org/en-US/docs/Web/CSS/background>
- background-color:
  - <https://developer.mozilla.org/en-US/docs/Web/CSS/background-color>
- background-image:
  - <https://developer.mozilla.org/en-US/docs/Web/CSS/background-image>
- background-repeat:
  - <https://developer.mozilla.org/en-US/docs/Web/CSS/background-repeat>
- background-size:
  - <https://developer.mozilla.org/en-US/docs/Web/CSS/background-size>

# Text

- Font
  - <https://developer.mozilla.org/en-US/docs/Web/CSS/font>
- font-size
  - <https://developer.mozilla.org/en-US/docs/Web/CSS/font-size>
- Font-style
  - <https://developer.mozilla.org/en-US/docs/Web/CSS/font-style>
- font-family
  - <https://developer.mozilla.org/en-US/docs/Web/CSS/font-family>
- Text-align
  - <https://developer.mozilla.org/en-US/docs/Web/CSS/text-align>

# Unit

- <https://developer.mozilla.org/en-US/docs/Web/CSS/length>
- px
  - <https://developer.mozilla.org/en-US/docs/Web/CSS/length#px>
- percentage
  - <https://developer.mozilla.org/en-US/docs/Web/CSS/percentage>

# z-index

- <https://developer.mozilla.org/en-US/docs/Web/CSS/z-index>