# Web Programming

*CSS*

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# What is CSS?

- **CSS** stands for **C**ascading **S**tyle **S**heets

- CSS defines **how HTML elements are to be displayed**

- Styles were added to HTML 4.0 **to solve a problem**

- CSS saves a lot of work

- External Style Sheets are stored in **CSS files**

# CSS Solved a Big Problem

- HTML was NEVER intended to contain tags for formatting a document. HTML was intended to **define the content** of a document

- When tags like <font>, and color attributes were added to the HTML 3.2 specification, it started a nightmare for web developers. Development of large web sites, where fonts and color information were added to every single page, became a long and expensive process.

- To solve this problem, the World Wide Web Consortium (W3C) created CSS.

- In HTML 4.0, all formatting could (and should!) be removed from the HTML document, and stored in a separate CSS file.

# Ways to Insert CSS

There are three ways of inserting a style sheet:

- ◦ Inline Styles
- ◦ Embedded/Internal Style Sheets
- ◦ External Style Sheets

# Inline Style

To use inline styles, add the style attribute to the relevant tag. The style attribute can contain any CSS property. The example shows how to change the color and the left margin of a h1 element:

```
<h2 style="color: red;">
Good eats for hungry geeks
</h2>
<p style="color: gray;">
Our fresh pizzas, hearty pasta dishes, and
succulent desserts are sure to please. And
don't forget about our daily chalkboard
specials!
</p>
```

# Embedded/Internal Style

An internal style sheet should be used when a single document has a unique style. You define internal styles in the head section of an HTML page, inside the <style> tag, like this:

```html
<head>
    <style type="text/css">
    h2 { color: red; }
    p { color: gray; }
    .info {background:#cccccc; border:1px}
    .label {margin:5px; color:#efefef}
    </style>
</head>
```

# External Style

An external style sheet is ideal when the style is applied to many pages. With an external style sheet, you can change the look of an entire Web site by changing just one file.

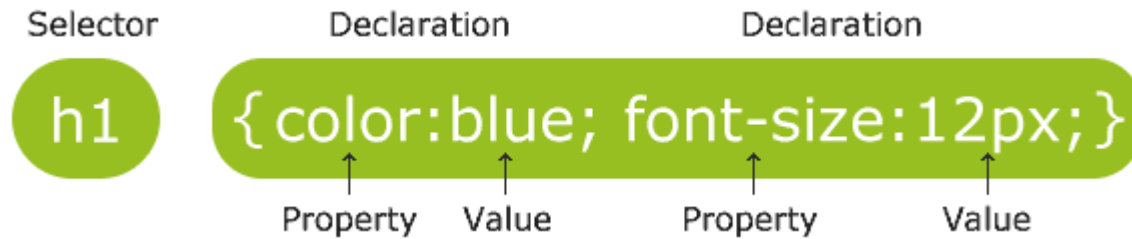Each page must include a link to the style sheet with the <link> tag. The <link> tag goes inside the head section:

```
<head>
    <link rel="stylesheet“
    type="text/css" href="styles.css" />
</head>
```

```
body {
    background-color: lightblue;
}
h1 {
    color: navy;
    margin-left: 20px;
}
```

# CSS Rule



The selector points to the HTML element you want to style.

The declaration block contains one or more declarations separated by semicolons.

Each declaration includes a property name and a value, separated by a colon.

# CSS Selectors

➤ Element Selectors, The element selector selects elements based on the element name. You can select all <p> elements on a page like this: (all <p> elements will be center-aligned, with a red text color)

➤ id Selectors, To select an element with a specific id, write a hash character, followed by the id of the element. The style rule below will be applied to the HTML element with id="para1"

➤ class Selectors, The class selector selects elements with a specific class attribute. To select elements with a specific class, write a period character, followed by the name of the class

```
h2 { color: red; }
p { color: gray; }
.info {background:#cccccc; border:1px}
#label {margin:5px; color:#efefef}
```

# Exercise – inline style

- Open doc4.html, save as doc7.html

- Add attribute style on element body and h1 :

```
<body style="font-family:Arial;
background:#efefef">

<h1 style="border-bottom:1px
solid #fff; font-family:Verdana">
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</h1>
```

# Exercise – internal style

- continued edit doc7.html

- insert this code between <head></head>

```
h2 {
    color: green;
    text-decoration:underline;
}

blockquote {
    border-left: 5px solid orange;
    padding-left: 10px;
    font-style:italic;
    color:#666
}
```

## About

**Hello**, this is my 1ˢᵗ HTML document.
I'm a Researcher, ~~Game~~ Mobile and **Web Developer**. I have interest in research about web and mobile application, web services and design pattern. Let's visit my blog at www.ariflaksito.me and learn more about me.

> I received the Bachelor degree in Computer Science from Gadjah Mada University, Yogyakarta, Indonesia in 2006, and finished my Master degree in Information Technology from STMIK AMIKOM Yogyakarta in 2013. I have experience in software development since 2003. I started teaching in STMIK AMIKOM Yogyakarta since 2008. As a mobile and web developer i have develop some application for education, government, private and for research purposes.

## Contact Details

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# Exercise – external style

- continued edit doc7.html

- insert this code between <head></head>

```
<link rel="stylesheet" type="text/css" href="style1.css" />
```

- create new file, named style1.css

# style1.css

```css
table{
    border-collapse: collapse;
}
table ,th, td{
    border: 1px solid green;
    padding: 5px 10px;
}
tr:nth-child(odd) {
    background-color:#eee;
}
tr:nth-child(even){
    background-color:#fff;
}
img{
    border-radius: 50%;
    border: 5px solid #fff;
}
```

## Works

| No | Year | Position | Company |
|----|------|----------|---------|
| 1 | 2008 - Present | Lecturer | STMIK AMIKOM Yogyakarta |
| 2 | 2007 - Present | Mobile and Web Application | Freelance Programmer |
| 3 | 2006 - 2007 | Outsource Web Programmer at DWH Division(Data Ware House) | PT.TELKOM, Bandung |
| 4 | 2003 - 2006 | Junior Web Programmer | IT Dept of STMIK AMIKOM Yogyakarta |

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# Refferences

- http://www.w3schools.com/css
- http://arif.staff.amikom.ac.id/blog

# Thank You