# Information Technologies for Industrial Engineers

เทคโนโลยีสารสนเทศสำหรับวิศวกรอุตสาหการ

#### **CSS**

- Cascading Style Sheets (CSS)
- Stylesheet language used to describe the presentation of a document written in HTML.
- Not a programming language nor a markup language.

## **Structure**

- Inline style
- Internal stylesheet
- External stylesheet

#### **Demo code**

https://gist.github.com/nnnpooh/19bae99457b9af270c357f7ef141db55

# Inline style

<h1 style="color: blue">Header</h1>

# Internal stylesheet

# **External stylesheet**

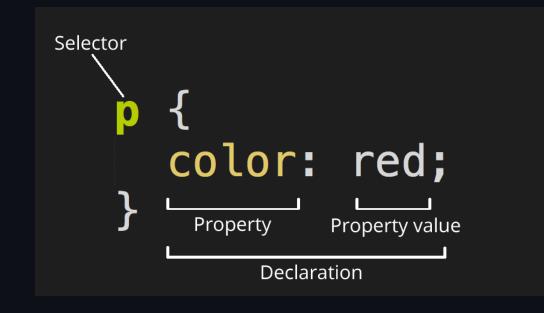
index.html

style.css

```
h1 {
  color: blue;
}
```

## Anatomy

- Selector
  - Defines the element(s) to be styled
- Properties
- Property values



## **Selectors**

- Element selector
  - Also called a tag or type selector
- ID selector
- Class selector
- Attribute selector
- Pseudo-class selector
- Pseudo-element selector

# **Element selector**

• Select all <h1> elements

```
h1 {
  color: blue;
}
```

## **ID Selector**

• Select the element on the page with the specified ID

```
id="my-id">Text

#my-id {
  color: blue;
}
```

#### Class selector

- Select the element(s) on the page with the specified class.
  - Multiple instances of the same class can appear on a page.

```
Text
.my-class {
```

```
.my-class {
  color: blue;
}
```

## **Attribute selector**

• Select the element(s) on the page with the specified attribute.

```
<a href="https://www.google.com" target="_blank">Google</a>
a[target] {
  color: blue;
}
```

#### Psudeo-class selector

- Select the specified element(s), but only when in the specified state.
  - For example, when a cursor hovers over a link.
- Selects <a> but only when the mouse pointer is hovering over the link.

```
a:hover {
  color: blue;
}
```

#### Pseudo element selector

 Keyword added to a selector that lets you style a specific part of the selected element(s).

```
/* The first line of every  element. */
p::first-line {
  color: blue;
  text-transform: uppercase;
}
```

```
/* Add content after <a> element*/
a::after {
  content: " ";
}
```

#### **CSS** selector refernces

- https://developer.mozilla.org/en-US/docs/Web/CSS/Reference#selectors
- https://www.w3schools.com/cssref/css\_selectors.asp

# Specificity

- Specificity is the means by which browsers decide which CSS property values are the most relevant to an element and, therefore, will be applied.
- When multiple declarations have equal specificity, the last declaration found in the CSS is applied to the element.

# **Specificity - Selector**

- Level of specificity (increasing order)
  - i. **Type selectors (** h1 ) and pseudo-elements ( ::before )
  - ii. Class selectors ( .example ), attributes selectors ( [type="radio"] ) and
     pseudo-classes ( :hover )
  - iii. ID selectors ( #example )
  - iv. Inline style ( <h1 style="color: blue"> )

#### !important

- When an important rule is used on a style declaration, this declaration overrides any other declarations, even inline style.
- พ่อทุกสถาบัน

```
<h1 style="color: red">I am red.</h1>

h1 {
  color: blue !important;
}
```