

Front-End Development



# Styling With CSS

*#1* Basic Style

# Front-End Development

Front end development is the development of code that creates the visual front-end elements of a software, application or website. Front end languages include **HTML**, **CSS**, and **Javascript**



**HTML** defines the content of web pages

**CSS** specifies the layout of web pages

**JS** programs the behavior of web pages



***CSS (Cascading Style Sheets)*** describes how HTML elements are to be displayed on screen, paper, or in other media.

CSS saves a lot of work. It can control the layout of multiple web pages all at once. External stylesheets are better stored in CSS files separately.

# Inline Styles

```
<!DOCTYPE html>
<html>
<head>
  <title>CSS Styles</title>
</head>
<body>
  <h1 style="color:red">Hai!</h1>
</body>
</html>
```

# Internal Styles

```
<!DOCTYPE html>
<html>
<head>
  <title>CSS Styles</title>
  <style>
    h2 {color: green;}
  </style>
</head>
<body>
  <h2>Ha1o!</h2>
</body>
</html>
```

# External Styles

*index.html*

*style.css*

```
p {  
    color: blue;  
}
```

```
<!DOCTYPE html><html><head>  
  <title>CSS Styles</title>  
  <link rel="stylesheet"  
    type="text/css"  
    href="style.css">  
</head><body>  
  <p>Ini paragraf.</p>  
</body></html>
```

# Selector

*telling CSS which elements to style*

```
<!DOCTYPE html>
<html>
<head>
  <style>
    h2 {color: orange;}
    p {color: red;}
    .mobil {color: blue;}
    #avanza {color: greenyellow}
  </style>
</head>
<body>
  <h2>Halo</h2>
  <p>Hai</p>
  <p class="mobil" id="avanza">Ini Avanza</p>
  <p class="mobil" id="alya">Ini Alya</p>
</body>
</html>
```

```
h2 {color: orange;}
p {color: red;}
.mobil {color: blue;}
#avanza {color: greenyellow}
```

# Selector

*telling CSS which elements to style*

`h2`, `p`, `.mobil` & `#avanza` are called **Selectors**.

`{color: orange;}` are **Property** & **Value**.

To select an element to style, simply:

- call its **tag** e.g `h2 {color: orange;}`
- call its **class** e.g `.mobil {color: blue;}`
- call its **id** e.g `#avanza {color: green;}`



# Attribute Selector

```
<!DOCTYPE html>
<html>
<head>
  <style>
    a[href] {color: red;}
  </style>
</head>
<body>
  <p><a href="#">Ini Link</a>
</body>
</html>
```

# Color

```
<!DOCTYPE html>
<html>
<head>
  <style>
    body {background-color: yellow;}
    h1 {color: rgb(0, 0, 255);}
    h2 {color: #00FF00;}
    p {color: hsl(360, 100%, 75%);}
  </style>
</head>
<body>
  <h1>Selamat datang!</h1>
  <h2>Purwadhika</h2>
  <p>Startup & Coding School</p>
</body>
</html>
```

# Color

```
body {background-color: yellow;}  
h1 {color: rgb(0, 0, 255);}  
h2 {color: #00FF00;}  
p {color: hsl(360, 100%, 75%);}
```

*Red, Green, Blue Color Values*

■ {color: **rgb(0, 0, 255);**}

*Hexadecimal Value*

■ {color: **#00FF00;**}

*Hue, Saturation, Lightness Value*

■ {color: **hsl(360, 100%, 75%);**}

*Alpha Transparency*

■ {color: **rgba(0, 0, 255, 0.782);**}

■ {color: **hsla(360, 100%, 75%, 0.5);**}

# Backgrounds Color

```
<head><style>
body {
  background-color:blue;

  //background:
    linear-gradient(blue,yellow);

  //background:
    linear-gradient(90deg,blue,yellow);

  //background:
    radial-gradient(blue,yellow);
}
</style></head>
<body></body>
```

# Background Image

```
<!DOCTYPE html>
<html>
<head>
  <style>
    body {
      background-color: lightgray;
      background: url("lin.jpg");
      background-position: left top;
      background-size: 1280px 720px;
    }
  </style>
</head>
<body>
</body>
</html>
```

```
<head><style>
```

```
p {  
    font-family: "Impact", Arial;  
    font-style: italic;  
    text-transform: uppercase;  
    text-decoration: line-through;  
    text-shadow: -4px 4px 4px red;  
    line-height: 50%;  
    letter-spacing: 2px;  
    word-spacing: 4px;  
    text-align: left;  
    text-indent: 2rem;  
}
```

```
</style></head>
```

```
<body><p>halo kamu!<p></body>
```

```
</html>
```

## Font & Text

# Font & Text

## ■ **font-family** (*web safe fonts*):

Arial, Helvetica, Times New Roman, Times, Courier New, Courier, Verdana, Georgia, Palatino, Garamond, Bookman, Comic Sans MS, Trebuchet MS, Arial Black, Impact

## ■ **font-style:**

normal, italic, oblique

## ■ **text-transform:**

capitalize, uppercase, lowercase, none

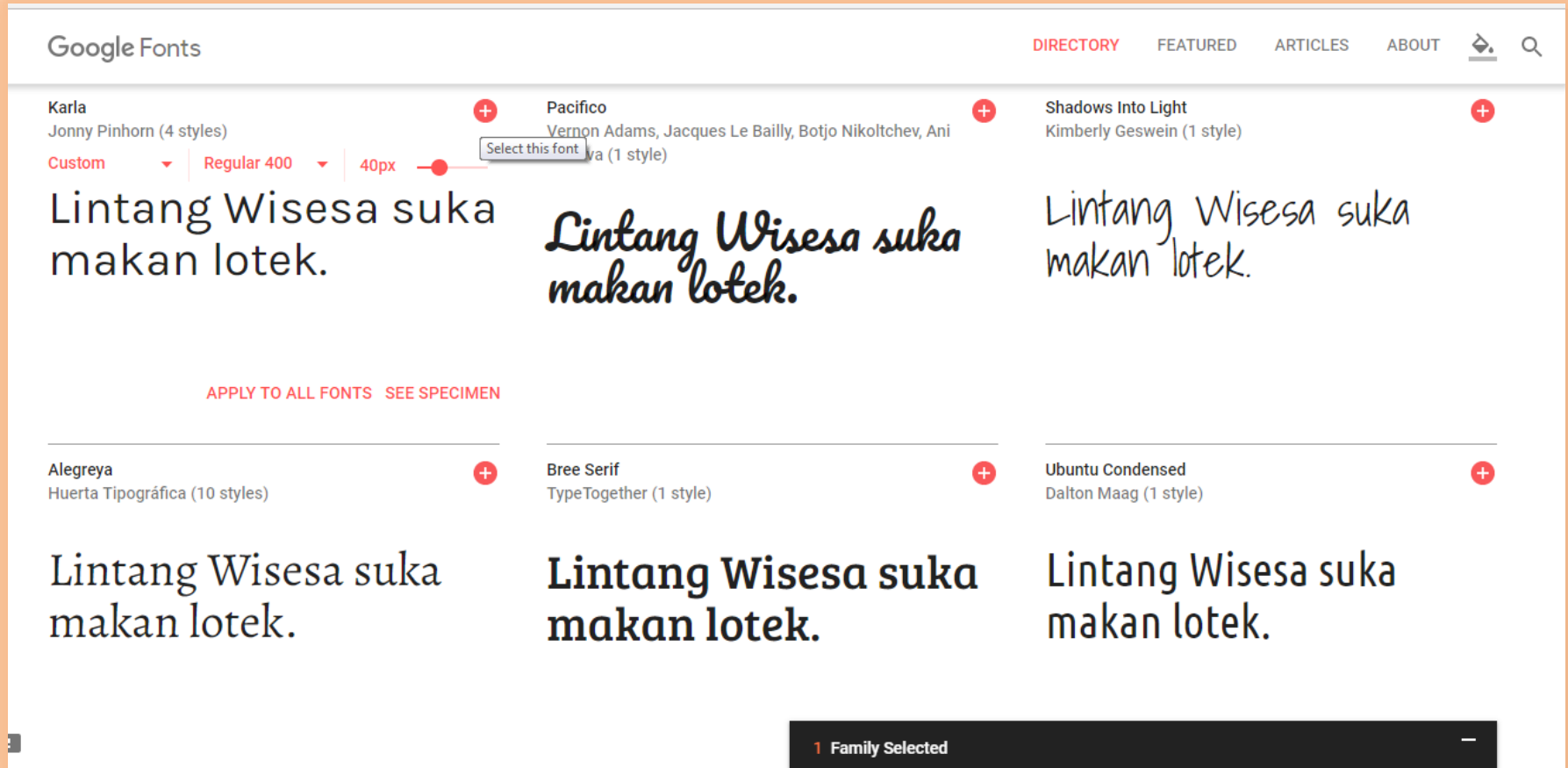
## ■ **text-decoration:**

underline, overline, line-through, wavy, none

## ■ **text-align:**

left, center, right

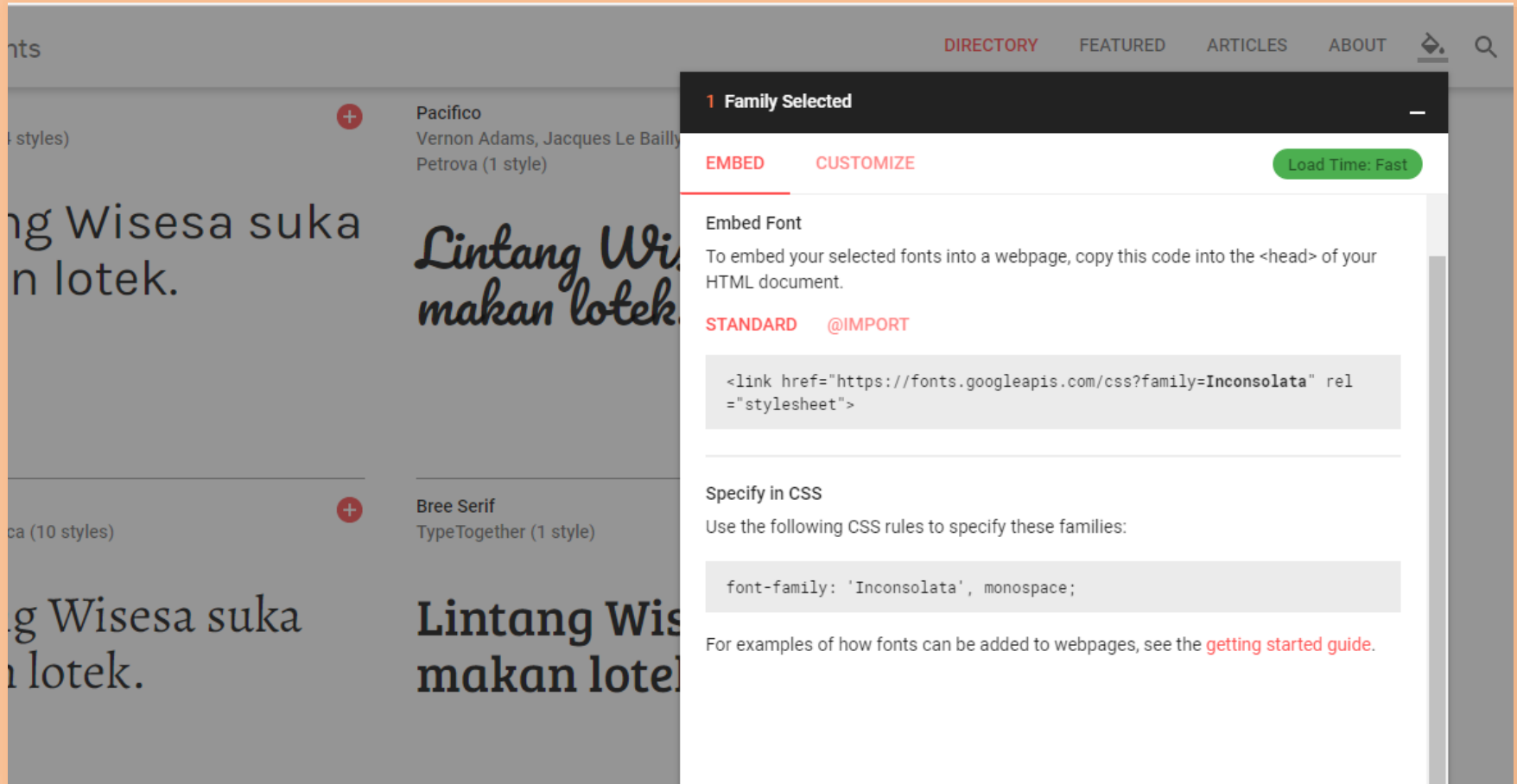
# Google Fonts



fonts.google.com



# Google Fonts



fonts.google.com

# Google Fonts

```
<head>  
<link href=  
'https://fonts.googleapis.com/css?family=Tangerine|Sofia'  
rel='stylesheet'>
```

```
<style>  
h1 {  
    font-family: 'Sofia';font-size: 50px;  
}  
h2 {  
    font-family: 'Tangerine';font-size: 50px;  
}
```

```
</style>  
</head>  
<body>  
<h1>Ini Font Sofia</h1>  
<h2>Ini Font Tangerine</h2>  
</body>
```

# Lists

```
<head><style>
  ul {
    list-style-type: none;
  }
</style></head>
<body>
  <ul>
    <li>List #1</li>
    <li>List #2</li>
    <li>List #3</li>
  </ul>
</body>
```

## ■ list-style-type:

decimal, decimal-leading-zero, unset, lower-roman, upper-roman, square, *etc.*

# Width & Height

```
<head><style>
  .konten {
    background-color: pink;
    width: 200px;
    height: 100px
  }
</style></head>
<body>
  <div class="konten">
    Halo semuanya!
  </div>
</body>
```

# Unit Length

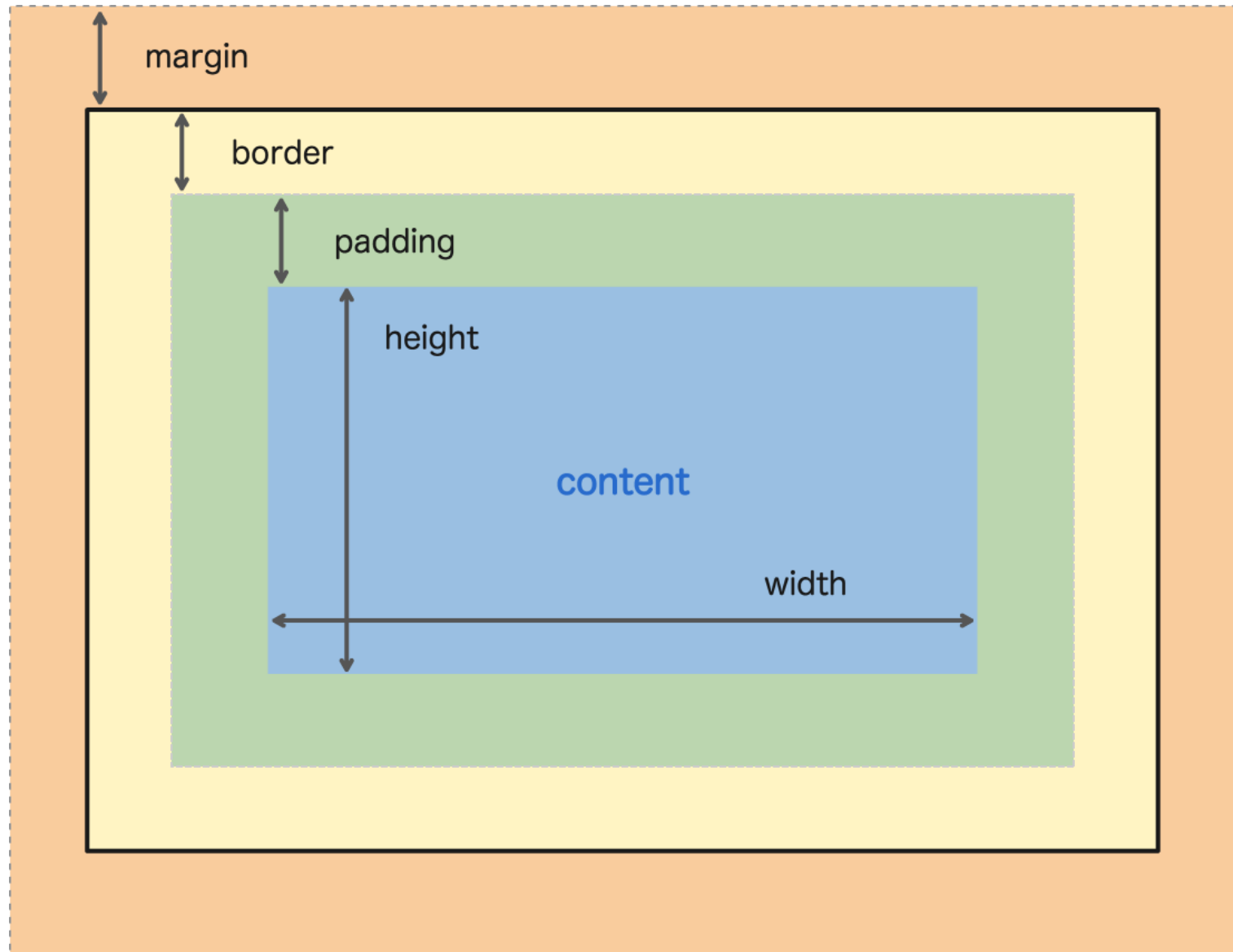
## Absolute Lengths

**px**: the unit for pixels  
**pt**: the unit for points  
**cm**: the unit for centimeters  
**mm**: the unit for millimeters  
**in**: the unit for inches  
**pc**: the unit for picas

## Relative Lengths

**%**: the unit for percentages  
**em**: relative to current font size  
**rem**: relative to current font size on the element  
**vw**: relative to the width of viewport divided by 100  
**vh**: relative to the height of viewport/100  
**vmin**: relative to the smaller viewport's dimension/100  
**vmax**: relative to the larger viewport's dimension/100  
**ch**: relative to 0  
**ex**: relative to the x-height of font

# Padding, Border & Margin



# Padding

```
<head><style>
  div {
    background-color: lightblue;
  }
  .tanpa-padding {
    padding: 0;
  }
  .pakai-padding {
    padding: 25px;
  }
</style></head>
<body>
  <div class="tanpa-padding">Tanpa padding</div>
  <br>
  <div class="pakai-padding">Pakai padding</div>
</body>
```

# Padding

```
<head><style>
  div {
    background-color: lightblue;
    width: 900px;
    height: 500px;
  }
  h1 {
    color: white;
    background-color: blue;
    padding-top: 10px;
    padding-bottom: 20px;
    padding-left: 25px;
    padding-right: 30px;
  }
</style></head><body>
  <div><h1>Ini Padding</h1></div>
</body>
```



# Border

```
<head><style>
  div {
    background-color: lightblue;
    width: 900px; height: 500px;
  }
  h1 {
    color: white; background-color: blue;
    padding: 25px;
    border: 20px ridge yellow;
    border-radius: 10px;
    box-shadow: -0.5rem 0.5rem 1rem gray;
  }
</style></head><body>
  <div><h1>Contoh Border</h1></div>
</body>
```

## ■ Border styles:

solid, dotted, dashed, double, inset,  
outset, groove, ridge

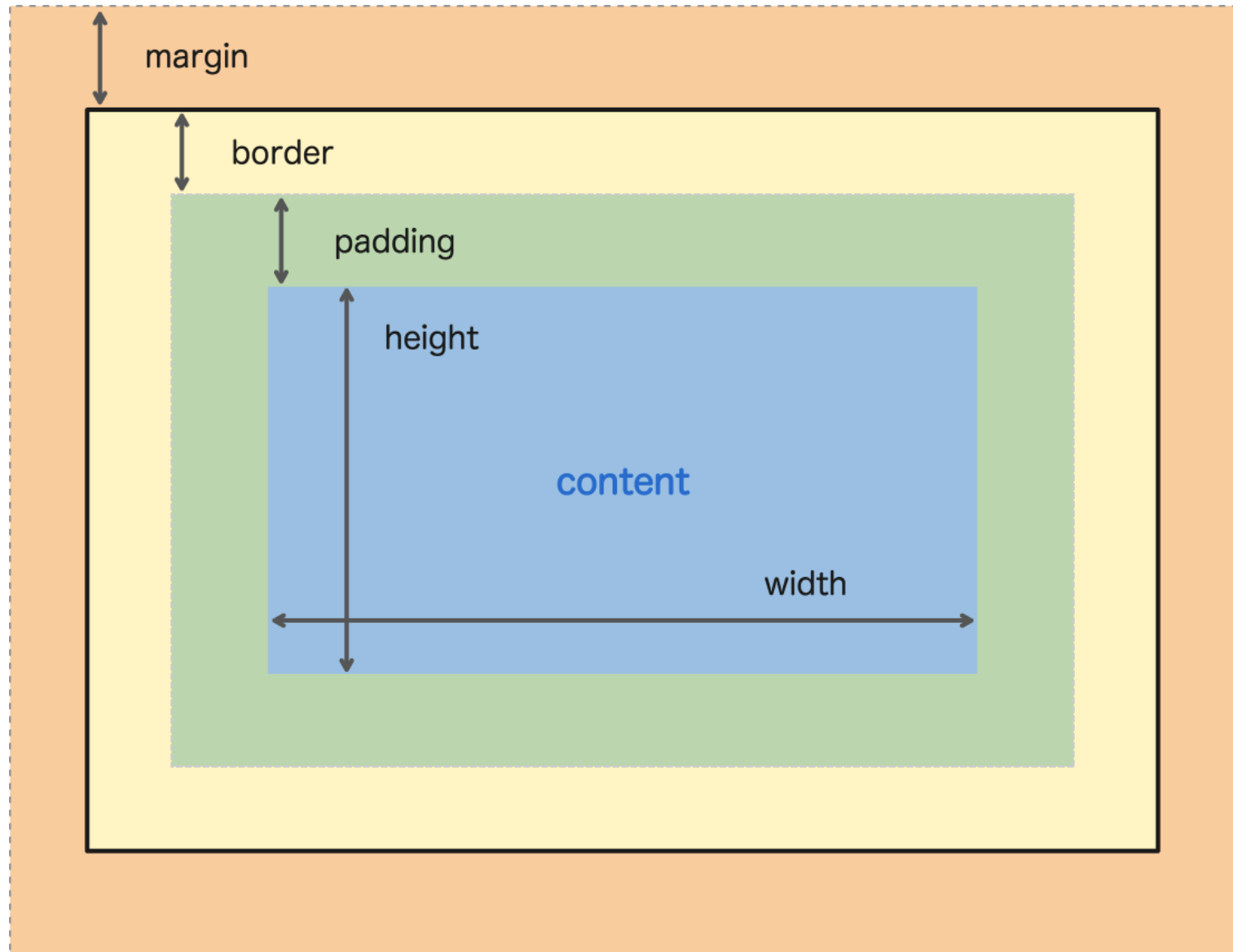
# Margin

```
<head><style>
  div {
    background-color: lightblue;
    width: 900px; height: 500px;
    margin-left: 200px;
  }
  h1 {
    color: white; background-color: blue;
    padding: 25px;
    border: 20px ridge yellow;
  }
</style></head><body>
  <div><h1>Contoh Border</h1></div>
</body>
```

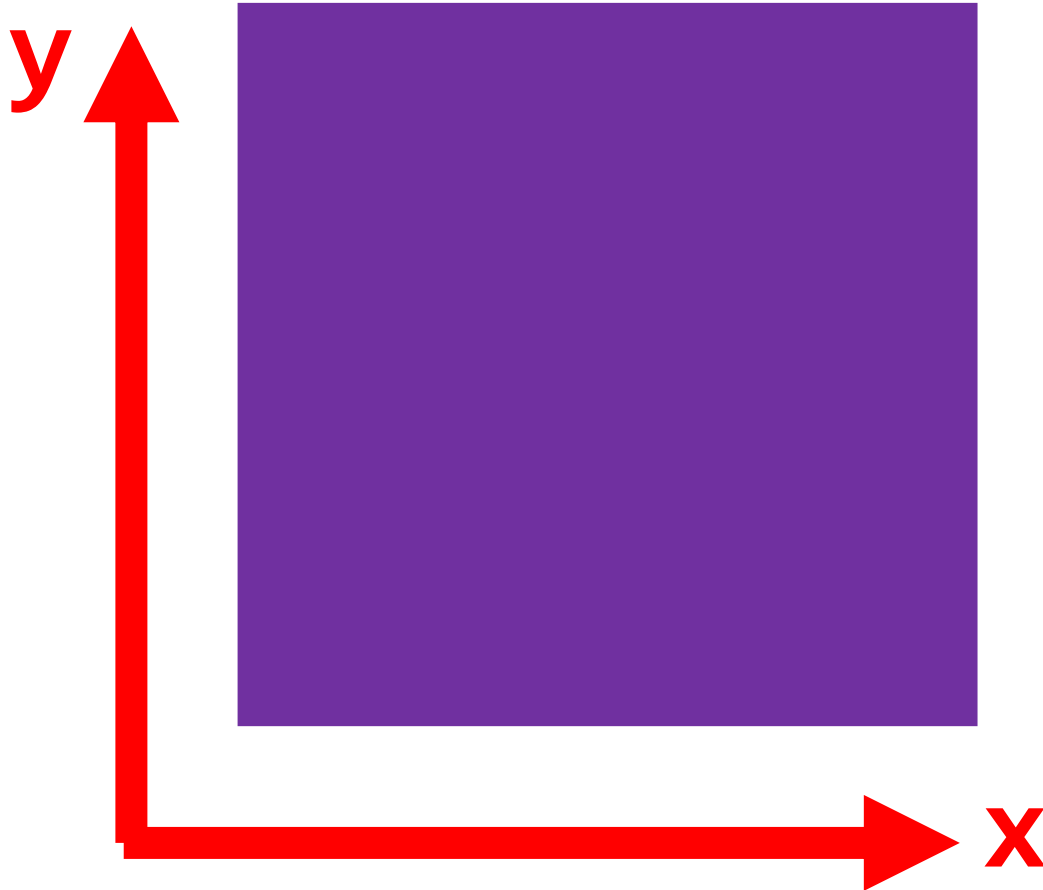
## ■ Margin:

margin-top, margin-bottom, margin-right

# Padding, Border & Margin



# 2D Transforms



## 2D Transforms

### *Translate*

```
<head><style>
  .box {
    height: 100px;
    width: 100px;
    margin: 50px;
    background-color: purple;
    transform: translate(100px, 100px);
  }
</style>
</head>
<body>
  <div class="box"></div>
</body>
</html>
```



# 2D Transforms

## *Rotate*

```
<head><style>
  .box {
    height: 100px;
    width: 100px;
    margin: 50px;
    background-color: purple;
    transform: rotate(45deg);
  }
</style>
</head>
<body>
  <div class="box"></div>
</body>
</html>
```



# 2D Transforms

## Scale

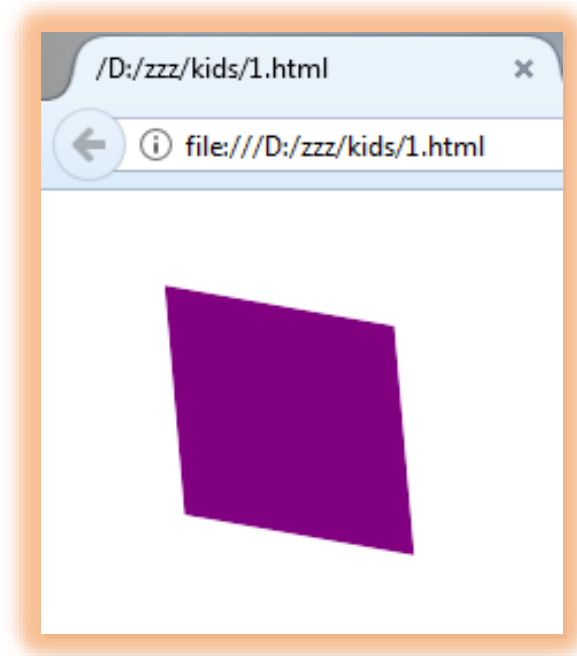
```
<head><style>
  .box {
    height: 100px;
    width: 100px;
    margin: 50px;
    background-color: purple;
    transform: scale(0.75, 1.25);
  }
</style>
</head>
<body>
  <div class="box"></div>
</body>
</html>
```



# 2D Transforms

## Skew

```
<head><style>
  .box {
    height: 100px;
    width: 100px;
    margin: 50px;
    background-color: purple;
    transform: skew(5deg, 10deg);
  }
</style>
</head>
<body>
  <div class="box"></div>
</body>
</html>
```





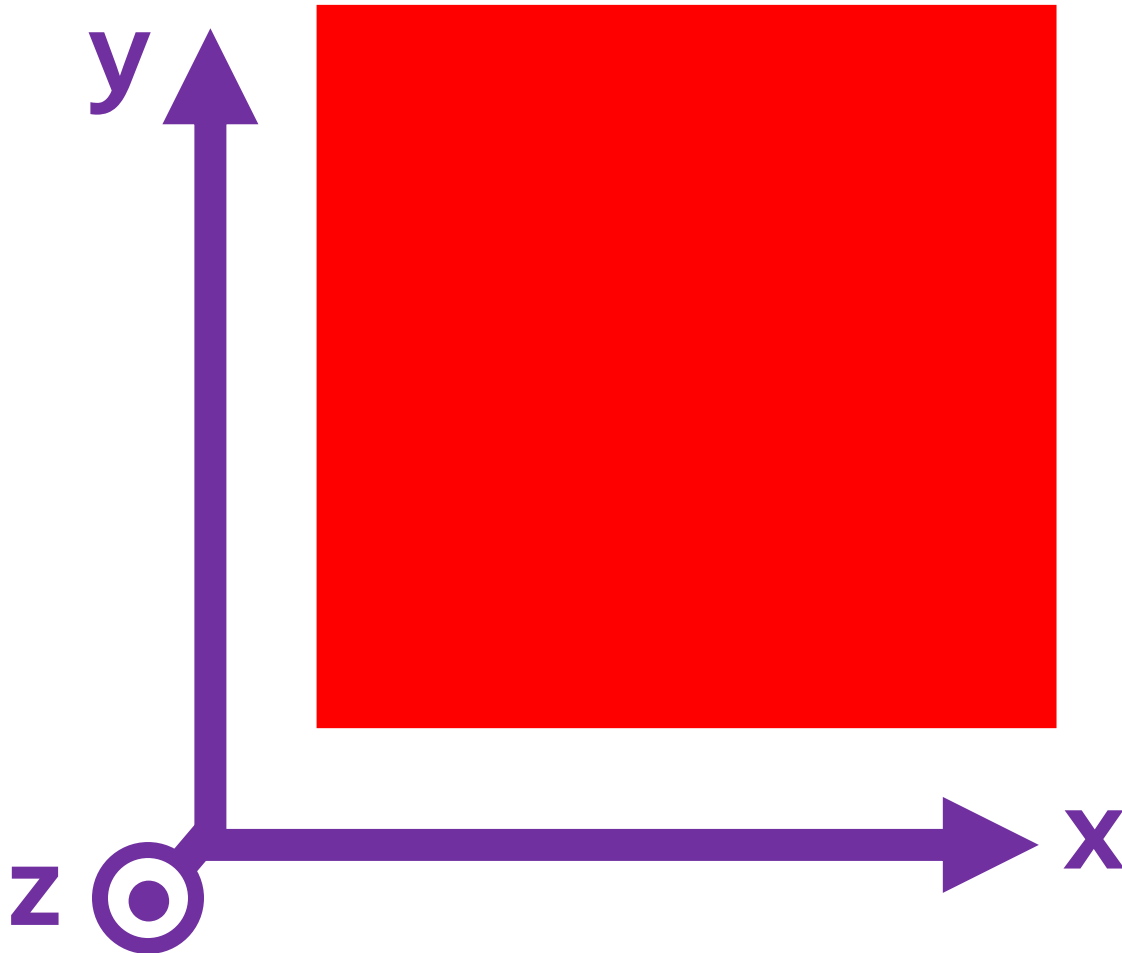
## 2D Transforms

### *Multiple Transforms*

```
<head><style>
  .box {
    height: 100px;
    width: 100px;
    margin: 50px;
    background-color: purple;
    transform: skew(15deg, 7deg)
              rotate(125deg);
  }
</style>
</head>
<body>
  <div class="box"></div>
</body>
</html>
```



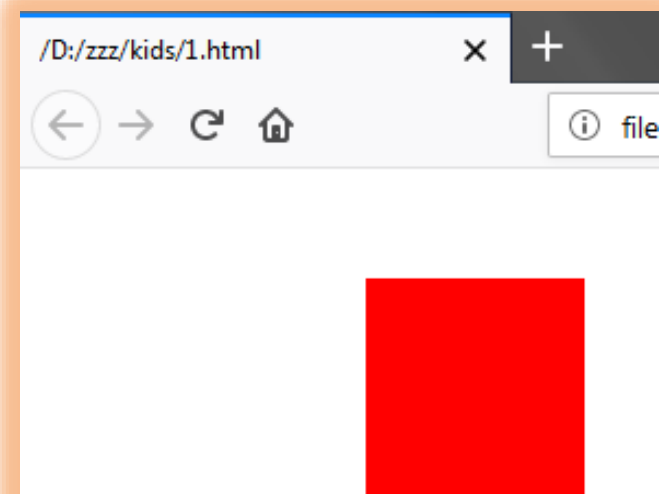
# 3D Transforms



# 3D Transforms

## *Translate X*

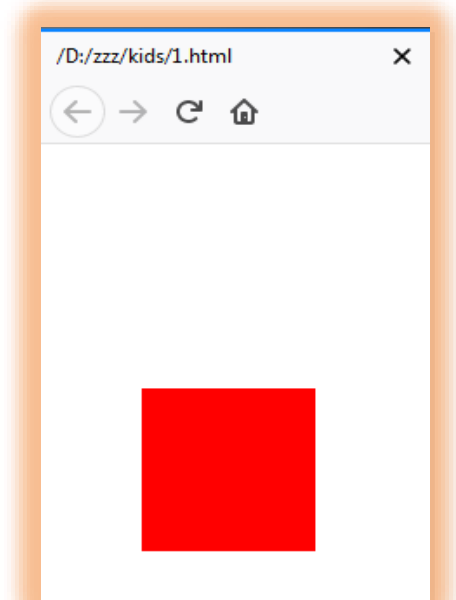
```
<head><style>
  .box {
    width: 100px;
    height: 100px;
    margin: 50px;
    background-color: red;
    transform:    perspective(700px)
                  translateX(100px);
  }
</style></head>
<body>
  <div class="box"></div>
</body>
```



# 3D Transforms

## *Translate Y*

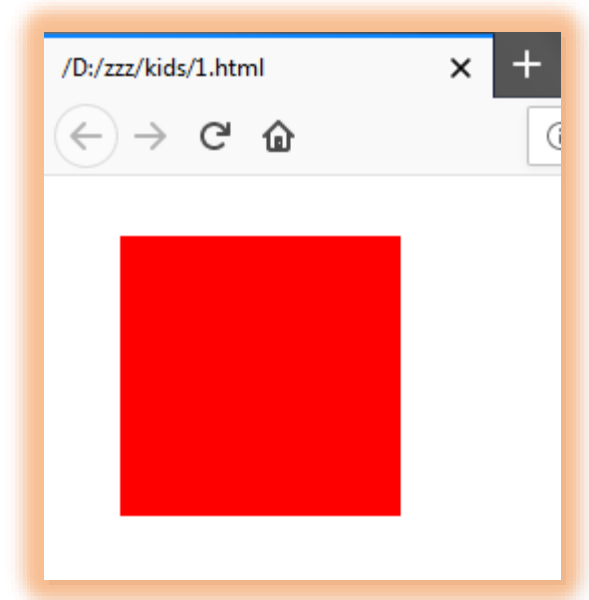
```
<head><style>
  .box {
    width: 100px;
    height: 100px;
    margin: 50px;
    background-color: red;
    transform:    perspective(700px)
                  translateY(100px);
  }
</style></head>
<body>
  <div class="box"></div>
</body>
```



# 3D Transforms

## *Translate Z*

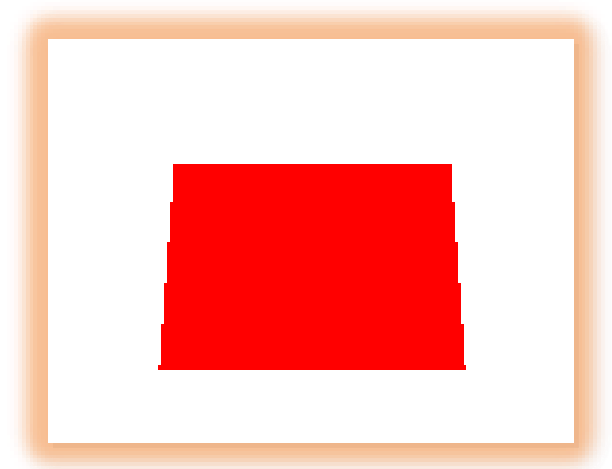
```
<head><style>
  .box {
    width: 100px;
    height: 100px;
    margin: 50px;
    background-color: red;
    transform:    perspective(700px)
                  translateZ(200px);
  }
</style></head>
<body>
  <div class="box"></div>
</body>
```



# 3D Transforms

*Rotate X*

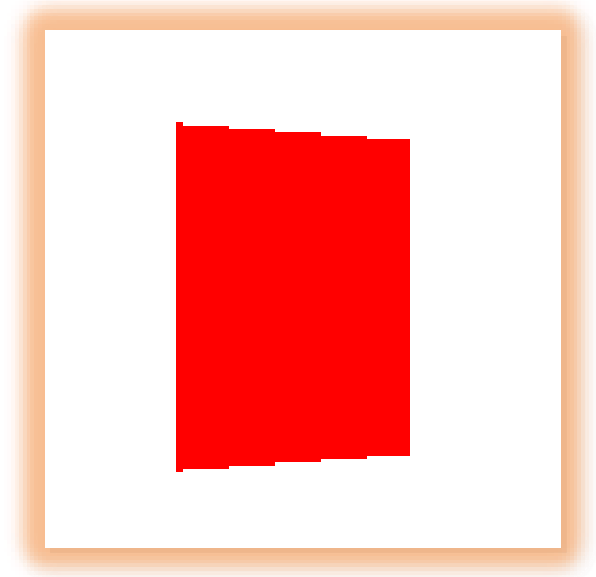
```
<head><style>
  .box {
    width: 100px;
    height: 100px;
    margin: 50px;
    background-color: red;
    transform:    perspective(700px)
                  rotateX(45deg);
  }
</style></head>
<body>
  <div class="box"></div>
</body>
```



# 3D Transforms

*Rotate Y*

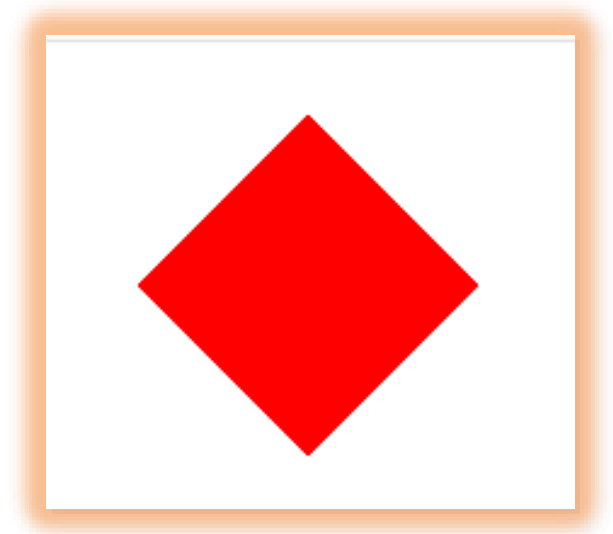
```
<head><style>
  .box {
    width: 100px;
    height: 100px;
    margin: 50px;
    background-color: red;
    transform:    perspective(700px)
                  rotateY(45deg);
  }
</style></head>
<body>
  <div class="box"></div>
</body>
```



# 3D Transforms

*Rotate Z*

```
<head><style>
  .box {
    width: 100px;
    height: 100px;
    margin: 50px;
    background-color: red;
    transform:    perspective(700px)
                  rotateZ(45deg);
  }
</style></head>
<body>
  <div class="box"></div>
</body>
```





Front-End Development



# Styling With CSS

*#1* Basic Style