

Coding for Teens



Styling With CSS

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

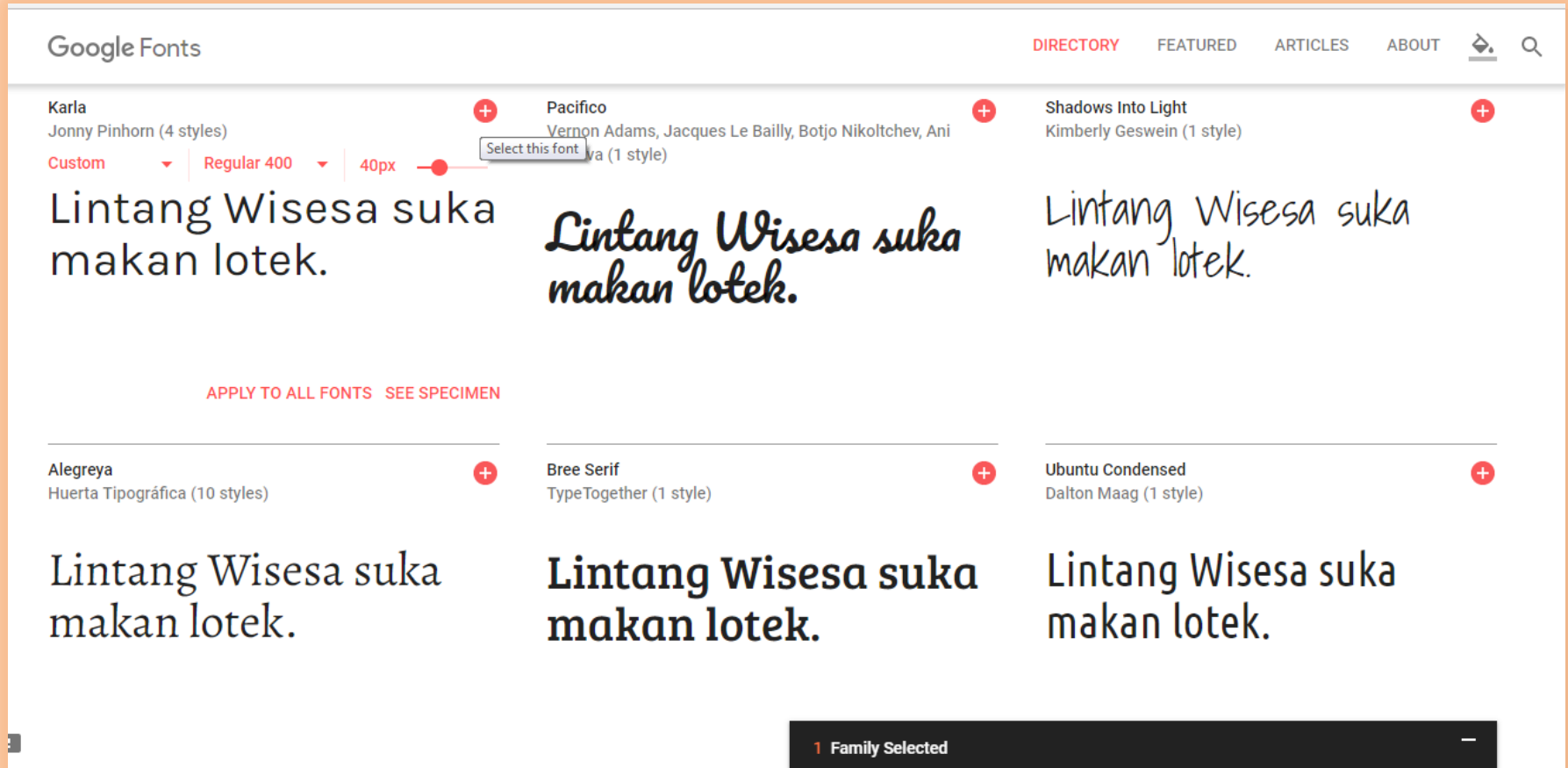
■ **text-decoration:**

underline, overline, line-through, none

■ **text-align:**

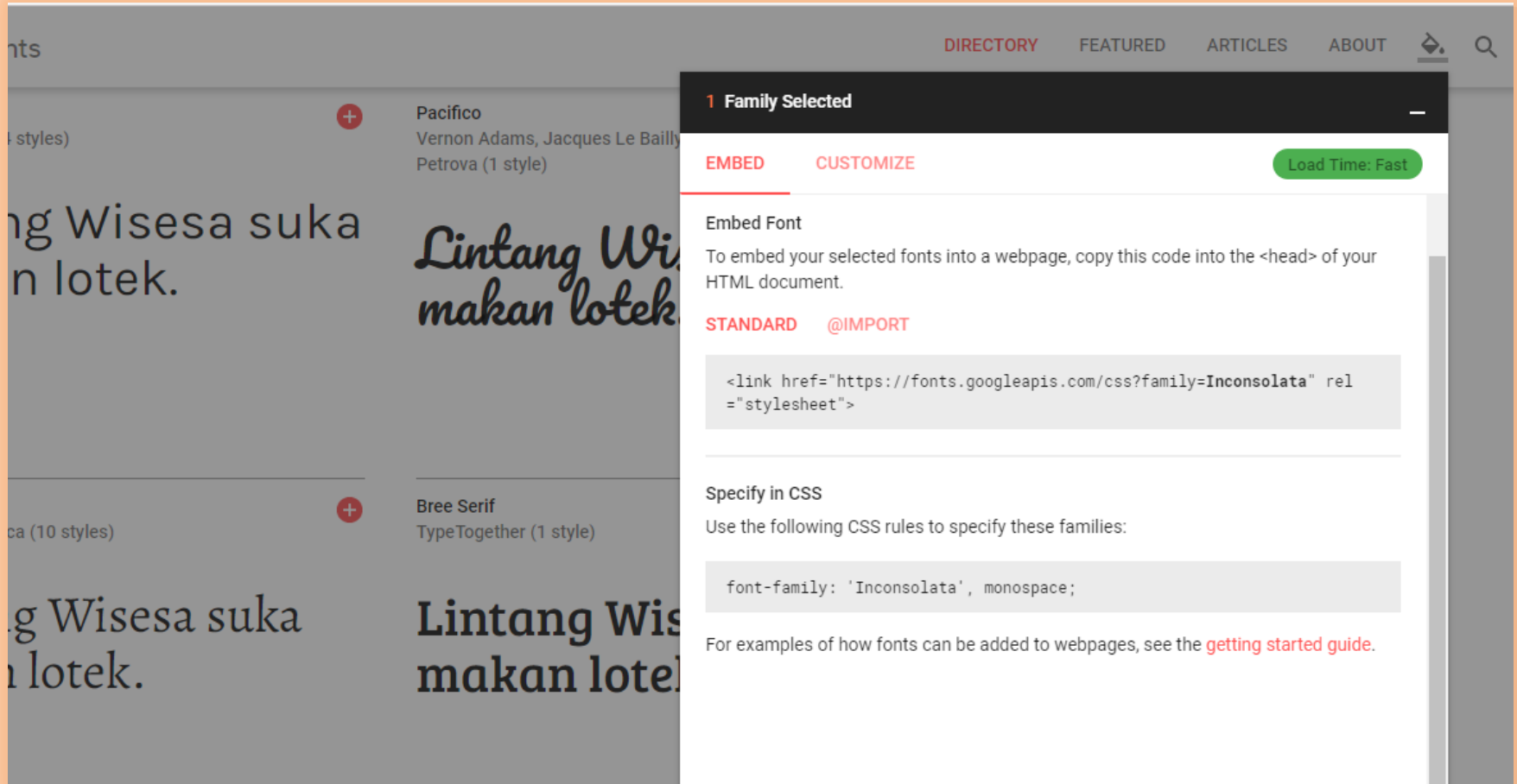
left, center, right

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>
```

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

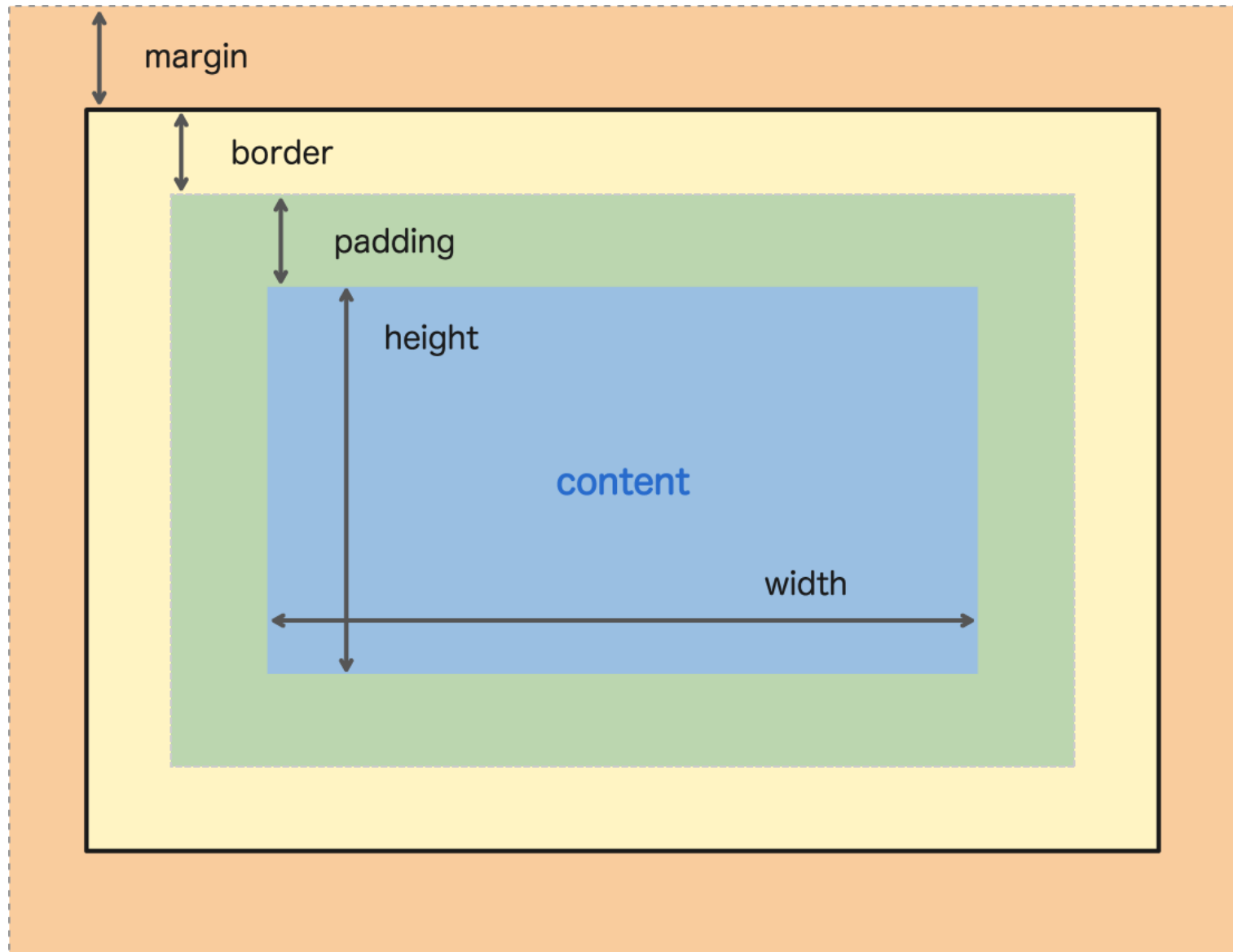
Absolute Lengths

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

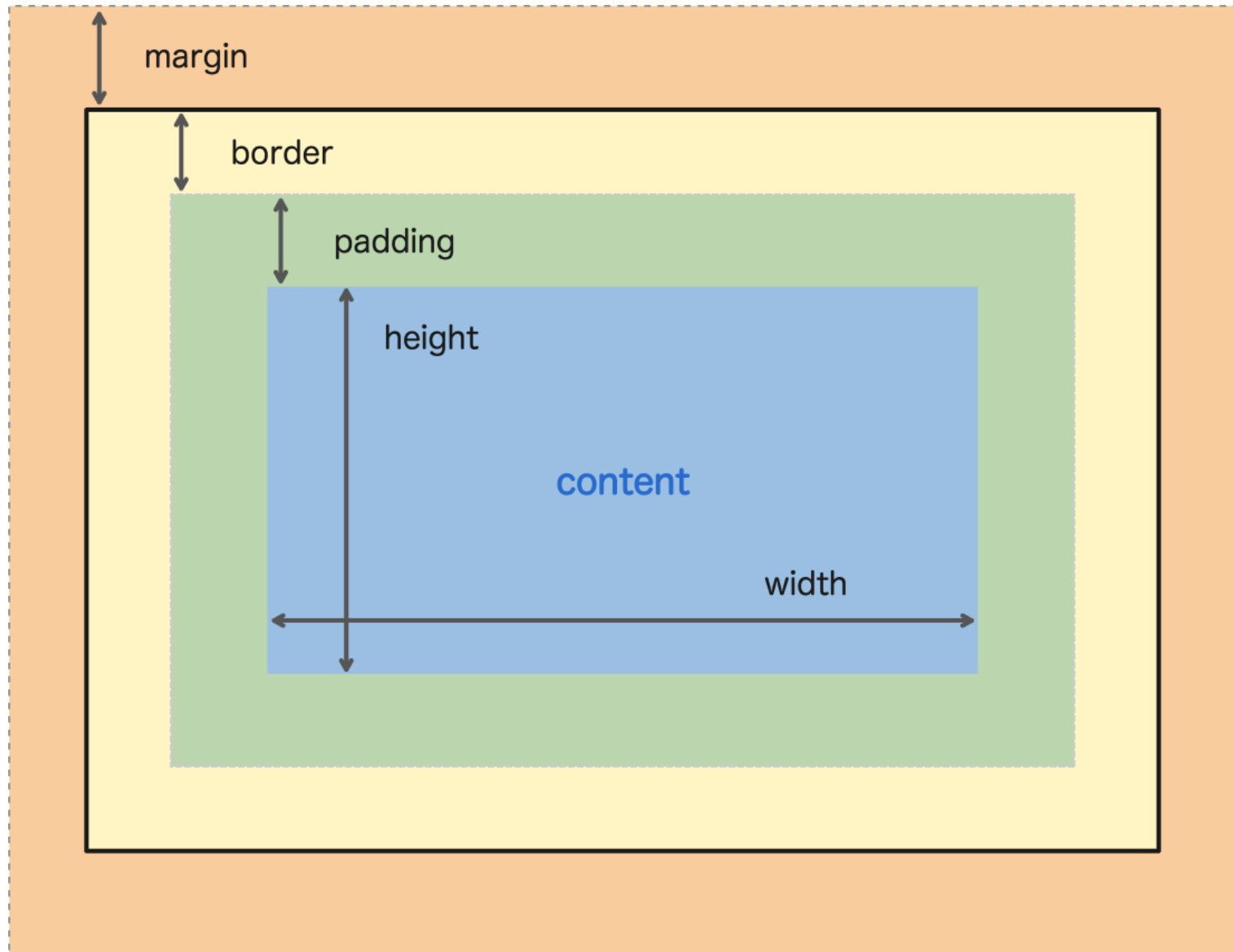
Margin

```
<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>
```

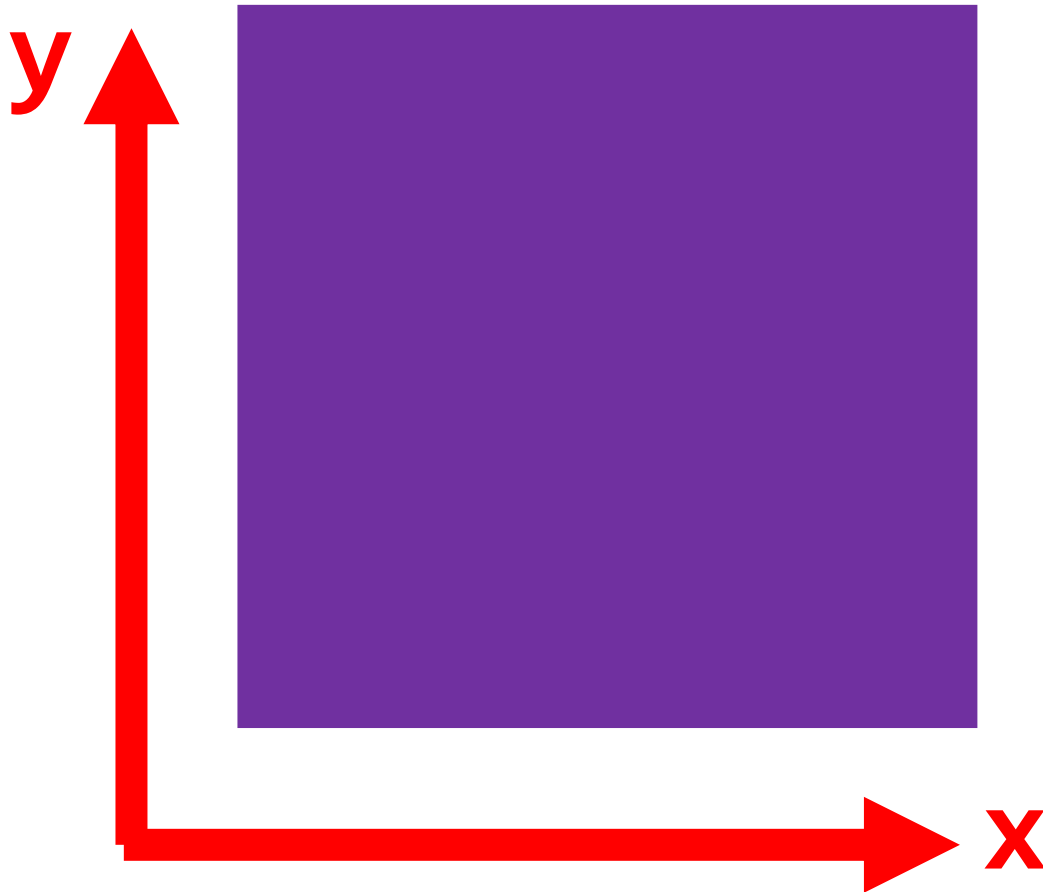
■ Margin:

margin-top, margin-bottom, margin-right

Padding, Border & Margin



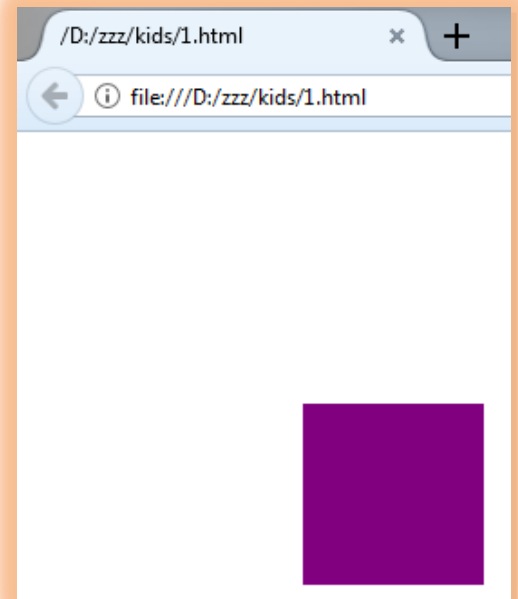
2D Transforms



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

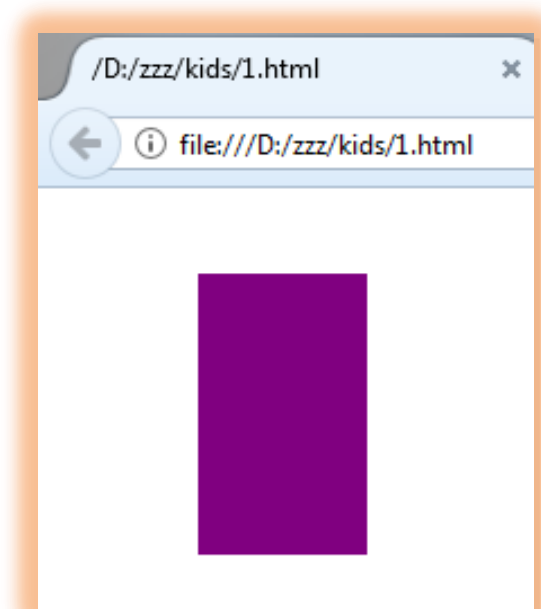
```
<head><style>
  .box {
    height: 100px;
    width: 100px;
    margin: 50px;
    background-color: purple;
    transform: rotate(45deg);
  }
</style>
</head>
<body>
  <div class="box"></div>
</body>
</html>
```



2D Transforms

Scale

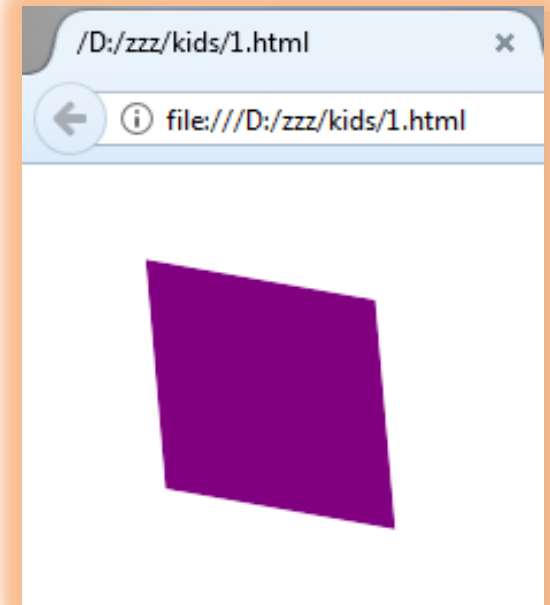
```
<head><style>
  .box {
    height: 100px;
    width: 100px;
    margin: 50px;
    background-color: purple;
    transform: scale(0.75, 1.25);
  }
</style>
</head>
<body>
  <div class="box"></div>
</body>
</html>
```



2D Transforms

Skew

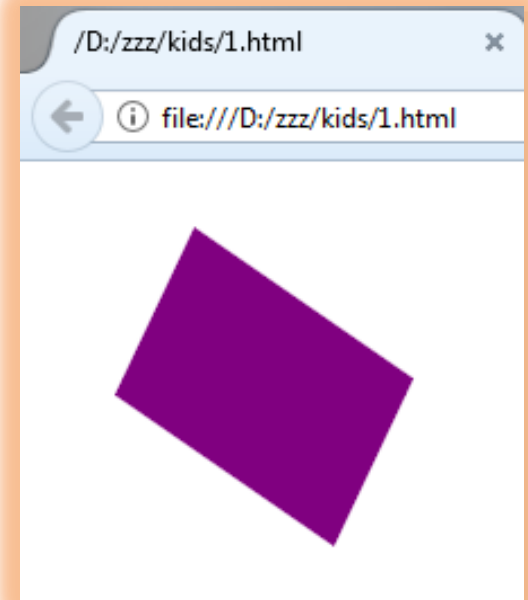
```
<head><style>
  .box {
    height: 100px;
    width: 100px;
    margin: 50px;
    background-color: purple;
    transform: skew(5deg, 10deg);
  }
</style>
</head>
<body>
  <div class="box"></div>
</body>
</html>
```



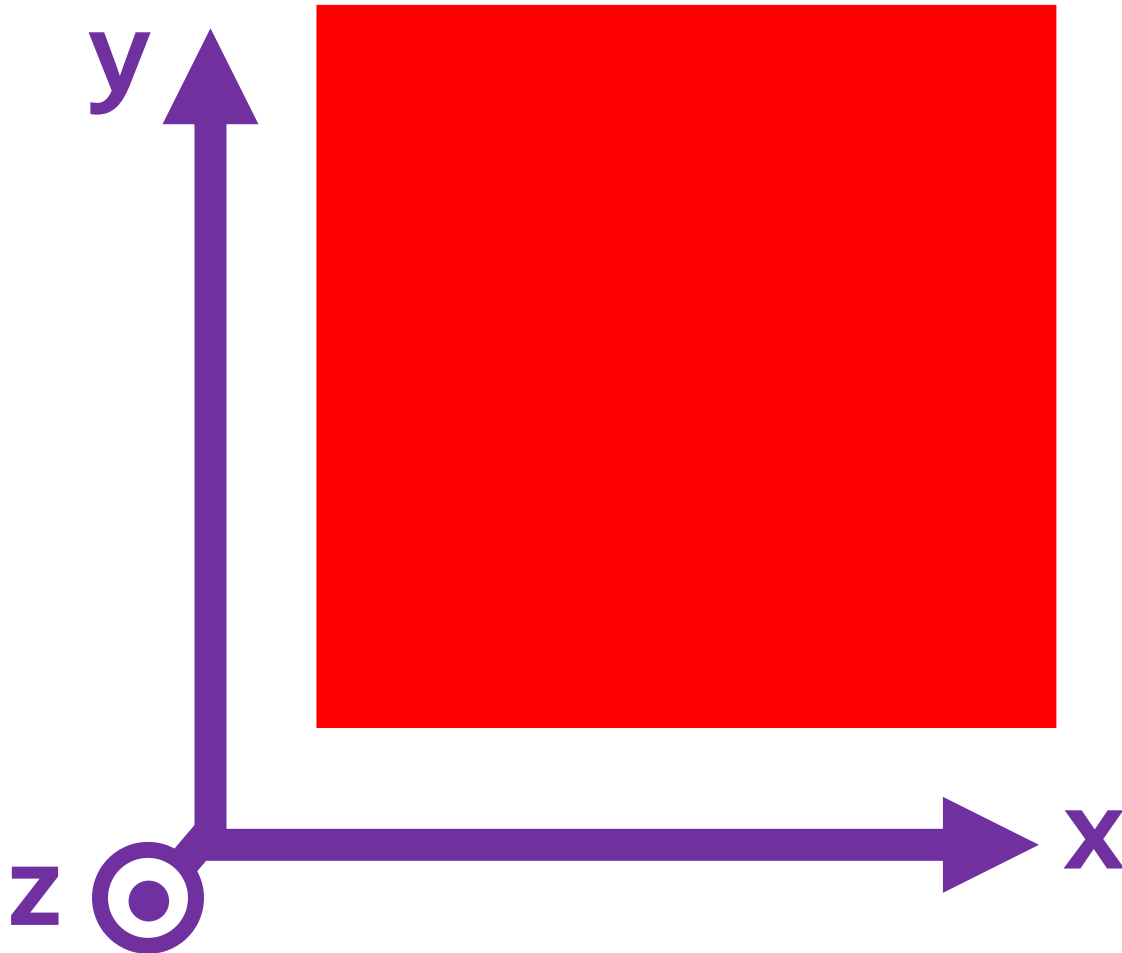
2D Transforms

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>
```



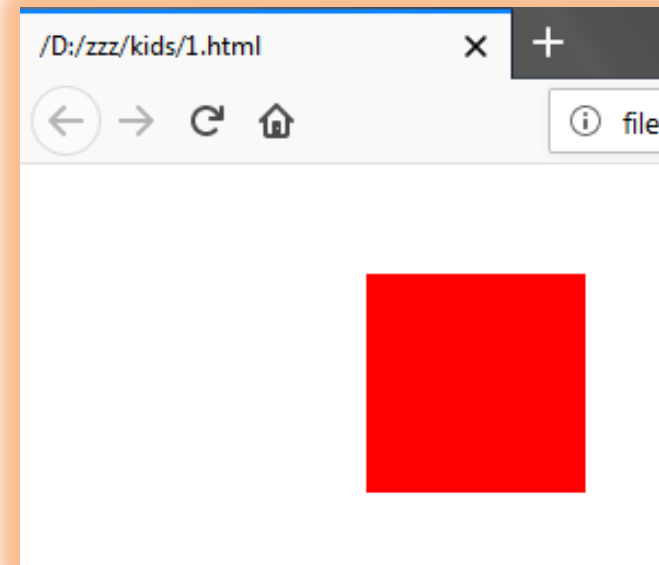
3D Transforms



3D Transforms

Translate X

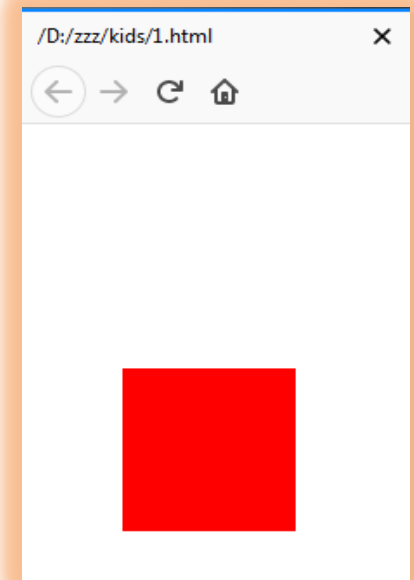
```
<head><style>
  .box {
    width: 100px;
    height: 100px;
    margin: 50px;
    background-color: red;
    transform:    perspective(700px)
                  translateX(100px);
  }
</style></head>
<body>
  <div class="box"></div>
</body>
```



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

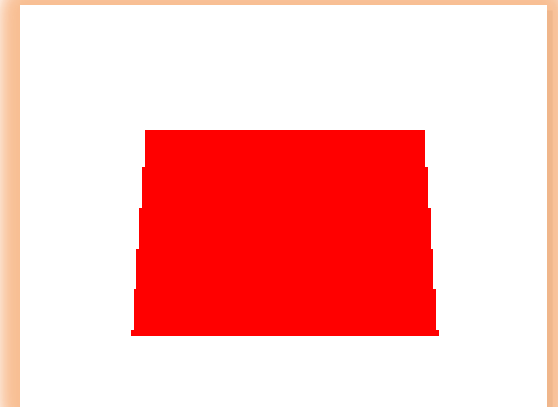
```
<head><style>
  .box {
    width: 100px;
    height: 100px;
    margin: 50px;
    background-color: red;
    transform:    perspective(700px)
                  translateZ(200px);
  }
</style></head>
<body>
  <div class="box"></div>
</body>
```



3D Transforms

Rotate X

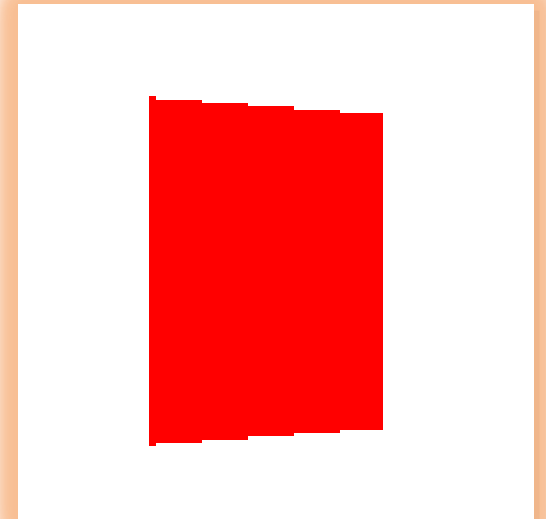
```
<head><style>
  .box {
    width: 100px;
    height: 100px;
    margin: 50px;
    background-color: red;
    transform:    perspective(700px)
                  rotateX(45deg);
  }
</style></head>
<body>
  <div class="box"></div>
</body>
```



3D Transforms

Rotate Y

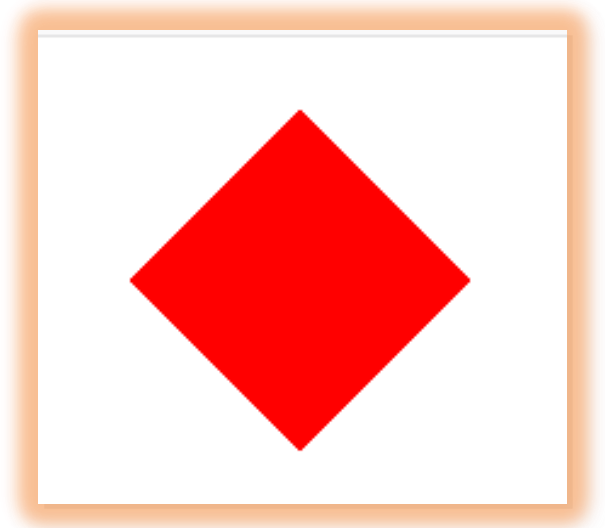
```
<head><style>
  .box {
    width: 100px;
    height: 100px;
    margin: 50px;
    background-color: red;
    transform:    perspective(700px)
                  rotateY(45deg);
  }
</style></head>
<body>
  <div class="box"></div>
</body>
```



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>
```



Coding for Teens



Styling With CSS

Basic Style