

Cascading Style Sheet (CSS)

Ade Putra, M.Kom.

UNIVERSITAS BINA DARMA
2013

Grouping & Inheritance

- *Grouping* (pengelompokan) :
 - Selector: **h1, h2, h3** { font-family: arial }
 - Declaration: h1 { **font-weight: bold; font-size: 14pt** }
 - Value: h1 { font: **bold 12pt arial** }
- *Inheritance* (pewarisan) :

Bila style tidak didefinisikan, maka akan digunakan definisi style dari induknya

```
<html>
  <head>
    <style type="text/css">
      body {color: navy}
      h1   {font-family: Arial}
      b    {text-decoration: underline}
    </style>
  </head>
  <body>
    <h1>Ini <b>Homepage</b> Saya</h1>
    Ini adalah homepage yang menggunakan CSS.
  </body>
</html>
```

Ini Homepage Saya

Ini adalah homepage yang menggunakan CSS.

Macam-macam *Selector*

- Tag (elemen) HTML
 - h1 {color: green}
 - i {font-style: normal}
- Class
 - .mhs {border: black solid 1; color: gray}
 - .nama {font: bold 20 Arial}
- ID
 - #mhs02 {color: red}
- Kontekstual
 - h1 i {color: navy}
 - div.mhs .alamat b {color: green}

```
<h1>Daftar Mahasiswa <i>Student Exchange</i></h1>
<div id="mhs01" class="mhs">
  <span class="nama">Adrian Marzuki</span><br>
  <span class="alamat">Jl. Tubagus Ismail XI/5 <b>Bandung</b></span>
</div>
<div id="mhs02" class="mhs">
  <span class="nama">Dewi Purnama</span><br>
  <span class="alamat">Jl. Cisitu Lama 24 <b>Bandung</b></span>
</div>
<i>Last updated 10 September 2003</i>
```

Pseudo Class

- Pseudo class dapat digunakan sebagai *selector* meskipun class-nya tidak terdapat di kode HTML
- Untuk menyatakan style yang digunakan jika suatu kondisi eksternal dikenakan pada elemen HTML (misalnya di-klik mouse)
- Sintaks pseudo class :
`selector:pseudo-class {property: value}`
- Anchor (<A>) pseudo class :
 - :link
 - :visited
 - :hover
 - :active
 - :focus
- Contoh :

```
a:link      { color: red }
a:visited  { color: green }
a:hover    { color: blue }
a:active   { color: purple }
a:focus    { color: yellow }
a.mhs:link { color: maroon }
```

PENGATURAN HYPERLINK & TOMBOL YANG MENARIK

Syntax penulisan pada CSS :

a:link {property : value}

Selector	Keterangan
a:link	Keadaan awal pemicu link aktif
a:visited	Keadaan pemicu link setelah dikunjungi
a:active	Keadaan pemicu yang sedang aktif
a:hover	Kejadian pada pemicu link saat mouse digerakkan di atasnya

1. Latihan Pseudocode 1
2. Latihan Pseudocode 2
3. Latihan Pseudocode 3

Pseudo Element

- Untuk menyatakan style yang digunakan terhadap suatu kondisi tipografi, bukan struktur (misalnya baris pertama)
- Pseudo element :
 - :first-letter
 - :first-line

- Contoh :

```
p:first-letter      { font-size: 200%; float: left }
p:first-line       { color: green }
<html>
h1.mhs<head>
  <title>Drop cap initial letter</title>
  <style type="text/css">
    p:first-letter { font-size: 200%;
                     font-weight: bold; float: left }
    span           { text-transform: uppercase }
  </style>
</head>
<body>
  <p><span>The first</span> few words of an article
    in The Economist.</p>
</body>
</html>
```

THE FIRST few
words of an
article in The
Economist.

CSS Properties

- Font
- Color & Background
- Text
- List
- Box Model
- Visual Formatting Model (normal & float)
- Positioning Scheme

Font

- font-family: <fontname>
p {font-family: Arial, Verdana, "Times New Roman"}
- font-style: normal | italic
p {font-style: italic}
- font-variant: normal | small-caps
p {font-variant: small-caps}
- font-weight: normal | bold | bolder | lighter | 100–900
p {font-weight: bold}
p {font-weight: 400}
- font-size: xx-small | x-small | small | medium | large | x-large | xx-large
font-size: larger | smaller
font-size: <length> | <percentage>
p {font-size: large}
p {font-size: smaller}
p {font-size: 200px}
p {font-size: 150%}
- font: [<style> | <variant> | <weight>]? <size>[/<line-height>]? <family>
font: caption | icon | menu | message-box | small-caption | status-bar
p {font: italic 12pt "Helvetica Nue", serif}
p {font: bold italic large Palatino, serif}
p {font: normal small-caps bold 120%/120% fantasy}
p {font: x-large/20pt "new century schoolbook", serif}
p {font: menu}

II. PENGATURAN FONT

Properties	Value	Keterangan
<i>Jenis Font</i>		
font-family	arial, dll	
<i>Ukuran Huruf</i>		
Font-size	Small Medium Large Length %	Kecil Menengah Besar Besar font (pt,px) Persentase
<i>Pengaturan gaya pada font</i>		
font-style	normal italic oblique	
<i>Ketebalan huruf</i>		
font-weight	normal bold 100 ~ 900	

1. Latihan Text 1
2. Latihan Text 2
3. Latihan Text 3
4. Latihan Text 4

Color & Background

- color: *<color>*
 - p {color: red}
 - p {color: #448F2C}
 - p {color: rgb(255,0,0)}
 - p {color: rgb(100%,50%,25%)}
 - p {color: #f25}
- background-color: *<color>* | transparent
 - body {background-color: transparent}
- background-image: *<url>* | none
 - body {background-image: none}
 - body {background-image: url(http://www.site.com/logo.gif)}
- background-repeat: repeat | repeat-x | repeat-y | no-repeat
 - body {background-repeat: no-repeat}
- background-attachment: scroll | fixed
 - body {background-attachment: fixed}
- background-position: [*<percentage>* | *<length>*]{1,2}
background-position: [top | center | bottom] || [left | center | right]
 - body {background-position: 50%}
 - body {background-position: 200px 50%}
 - body {background-position: center}
 - body {background-position: right bottom}
- background: [*<color>* || *<image>* || *<repeat>* || *<attachment>* || *<position>*]
 - body {background: url("chess.png") gray 50% repeat fixed }

1. Latihan Background1
2. Latihan Background2
3. Latihan Background3
4. Latihan Background4

Text

- text-indent: *<length>* | *<percentage>*
p {text-indent: 5em}
- text-align: left | right | center | justify
p {text-align: justify}
- text-decoration: none | [underline || overline || line-through || blink]
p {text-decoration: underline overline}
- text-shadow: none | [*<color>* || *<length>* *<length>* *<length>*?]
h1 {text-shadow: 3px 3px 5px red}
- text-transform: capitalize | uppercase | lowercase | none
h1 {text-transform: capitalize}
- letter-spacing: none | *<length>*
p {letter-spacing: 3px}
p {letter-spacing: -1px}
- word-spacing: none | *<length>*
p {word-spacing: 2em}
- line-height: normal | *<number>* | *<length>* | *<percentage>*
p {line-height: 1.5}
- white-space: normal | pre | nowrap
p {white-space: pre}

I. FORMAT TEXT PADA WEB

Properties	Value	Keterangan
<i>Pengaturan warna</i>		
color	green, dll	
<i>Pengaturan Spasi (jrk antar karakter)</i>		
letter-spacing	Normal Length	Ukrn standar HTML Ukrn panjang (cm,px)
<i>Perataan Text</i>		
text-align	left right center justify	
text-decoration	none underline overline line-through blink	Bentuk standar Bergaris bwh Bergaris atas Text dicoret Text berkedip
<i>Pengaturan text indentasi</i>		
text-indent	length	Dengn cm, px

1. Latihan Font 1
2. Latihan Font 2

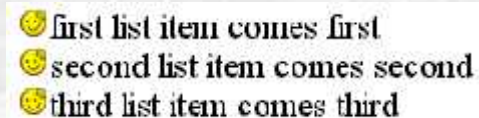
List

- list-style-type: disc | circle | square | decimal | decimal-leading-zero | lower-roman | upper-roman | lower-alpha | lower-latin | upper-alpha | upper-latin | none

```
ul {list-style-type: circle}
```

- list-style-image: <url> | none

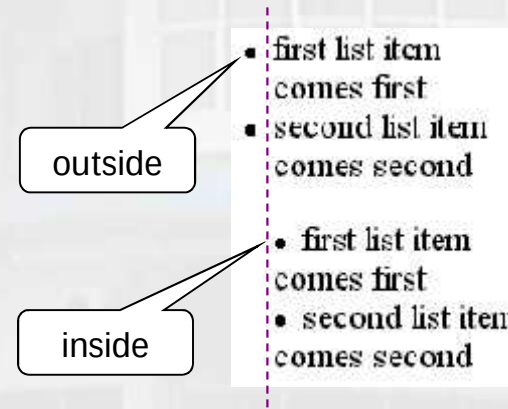
```
ul {list-style-image: url(smiley.gif)}
```



first list item comes first
second list item comes second
third list item comes third

- list-style-position: inside | outside

```
ul {list-style-position: inside}
```



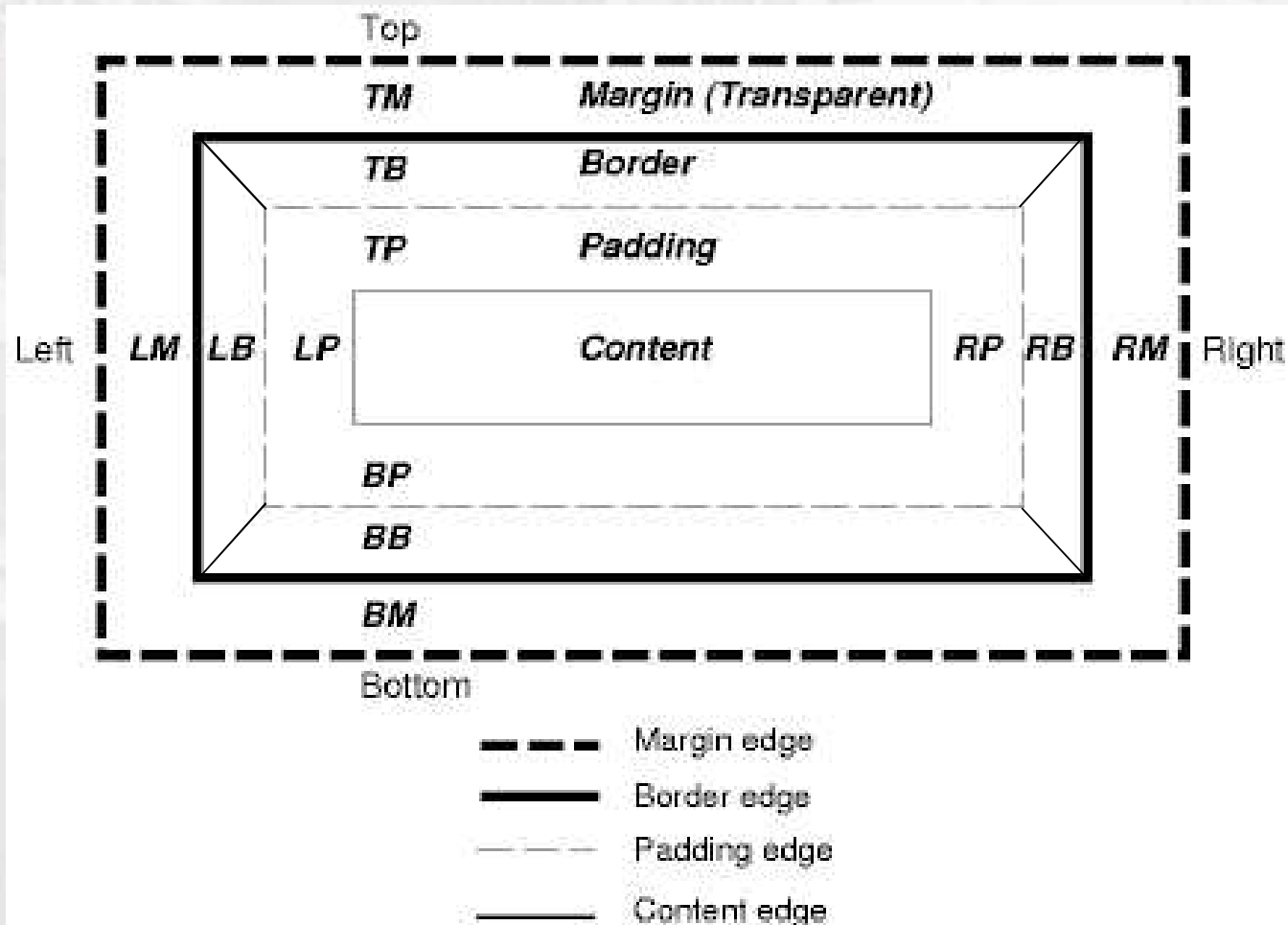
- list-style: <style> || <position> || <image>

```
ol {list-style: lower-alpha outside url(smiley.gif)}
```

Box Model (1)

- `margin-[top|right|bottom|left]: <length> | <percentage> | auto`
`div {margin-top: 10px}`
`div {margin-right: 20%}`
`div {margin-bottom: -5px}`
`div {margin-left: 20pt}`
- `margin: [ <length> | <percentage> | auto ]{1,4}`
`div {margin: 3em}`
`div {margin: 1em 2em}`
`div {margin: 5em 2em 3em}`
`div {margin: 8em 4em 15em 10em}`
- `padding-[top|right|bottom|left]: <length> | <percentage> | auto`
`div {padding-top: 10px}`
`div {padding-right: 20%}`
`div {padding-bottom: -5px}`
`div {padding-left: 20pt}`
- `padding: [ <length> | <percentage> | auto ]{1,4}`
`div {padding: 8em 4em 15em 10em}`
- `border-[top|right|bottom|left]-width: thin | medium | thick | <length>`
`div {border-top-width: thin}`
`div {border-right-width: 6px}`
`div {border-bottom-width: 2em}`
`div {border-left-width: 10}`
- `border-width: <width>{1,4}`
`div {border-width: thin medium 10 20}`

Box Model (2)



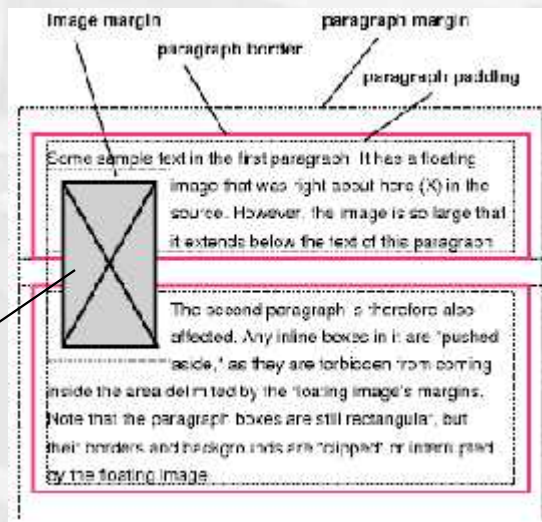
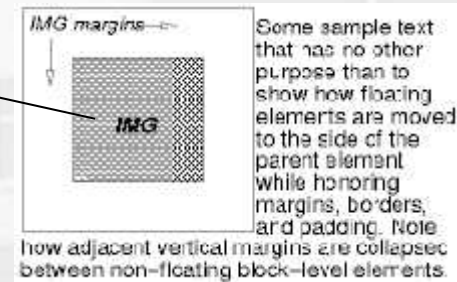
Box Model (3)

- `border-[top|right|bottom|left]-color: <color>`
`div {border-top-color: green}`
`div {border-bottom-color: rgb(0,128,0)}`
`div {border-right-color: #ff66cc}`
`div {border-left-color: #ee3}`
- `border-color: <color>{1,4} | transparent`
`div {border-color: green #ff66cc rgb(128,128,128) #ee3}`
- `border-[top|right|bottom|left]-style: hidden | double | solid | dashed | dotted | ridge | outset | groove | inset | none`
`div {border-top-style: double}`
`div {border-bottom-style: outset}`
`div {border-right-style: solid}`
`div {border-left-style: dashed}`
- `border-style: <style>{1,4}`
`div {border-style: solid dashed solid dotted}`
- `border-[top|right|bottom|left]: <width> || <style> || <color>`
`div {border-top: solid red}`
`div {border-right: thick double}`
`div {border-bottom: red dashed blue}`
`div {border-left: outset 10}`
- `border: <width> || <style> || <color>`
`div {border: red solid 1}`
- `width: <length> | <percentage> | auto`
`img {width: 40%}`
- `height: <length> | <percentage> | auto`
`img {height: 100px}`

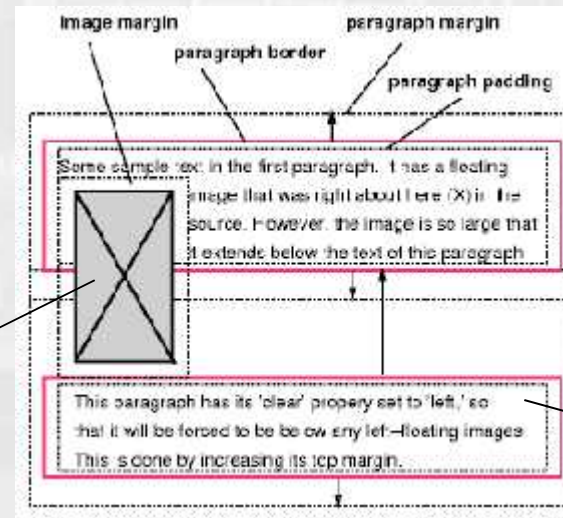
Visual Formatting Model (normal & float)

- display: inline | block | list-item | none
p {display: block}
b {display: inline}
li {display: list-item}
img {display: none}
- float: left | right | none
img {float: left}
- clear: left | right | both | none
img {float: left}

`<img style='float: left'>`



`<img style='float: left'>`

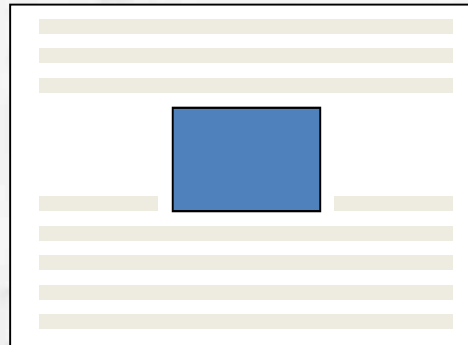


`<img style='float: left'>`

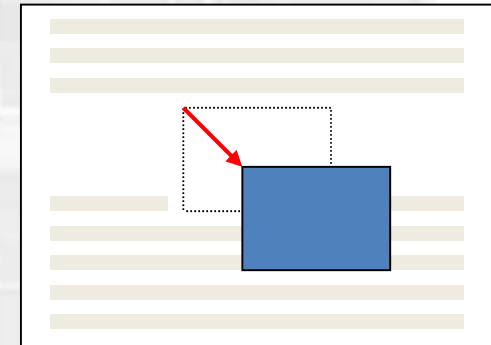
`<p style='clear: left'>`

Positioning Scheme

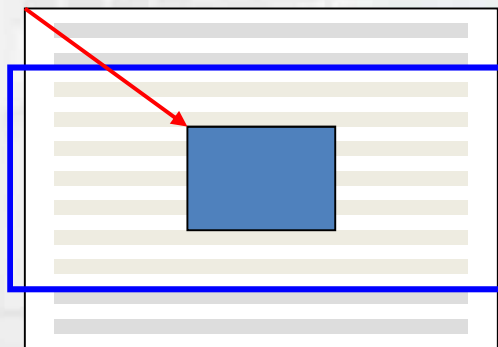
- position: static | relative | absolute | fixed
div {position: absolute}
- top|right|bottom|left: <length> | <percentage> | auto
div {top: 50}
- z-index: <integer> | auto
div {z-index: 2}



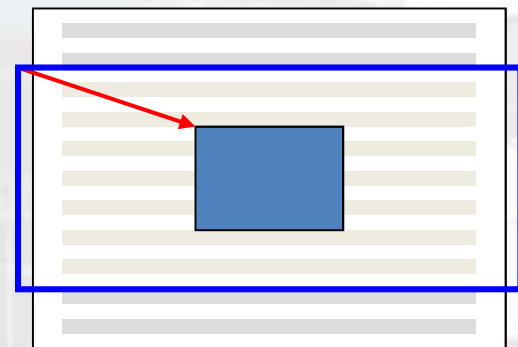
static



relative



absolute



fixed