

WEB DESIGN

Kurikulum

- Pengantar Web Design
- Definisi Umum HTML
- HTML Dasar
- HTML Form
- HTML Embedded Grafis
- Landing Page
- Definisi CSS
- CSS Formatting Text
- CSS Positioning
- CSS Layout Flexbox
- CSS Layout Grid
- CSS Animation
- Responsive Web Design (RWD)
- Desain RWD Eksternal

Reward

```
export const Reward = (point) => {  
  const hadiah = []  
  if (point >= 750) {  
    hadiah[0] = "Penambahan Nilai"  
    hadiah[1] = "Mendapatkan Hadiah"  
    console.log(hadiah);  
  }  
  
  else if (point >= 500) {  
    hadiah[0] = "Penambahan Nilai"  
    console.log(hadiah);  
  }  
  
  else {  
    console.log("Tetap Semangat");  
  }  
}
```

- Tiap pertemuan akan ada penilaian berupa kuis
- Bagi mahasiswa yang aktif akan mendapatkan point
- Jika point telah mencapai 500, maka mahasiswa berhak menerima penambahan nilai
- Jika point telah mencapai 750 maka mahasiswa berhak mendapatkan hadiah

"Barangsiapa yang berusaha menjaga diri, maka Allah menjaganya,
barangsiapa yang berusaha merasa cukup, maka Allah mencukupinya.

Barangsiapa yang berusaha bersabar, maka Allah akan
menjadikannya bisa bersabar dan tidak ada seorang pun yang
dianugerahi sesuatu yang melebihi kesabaran.“

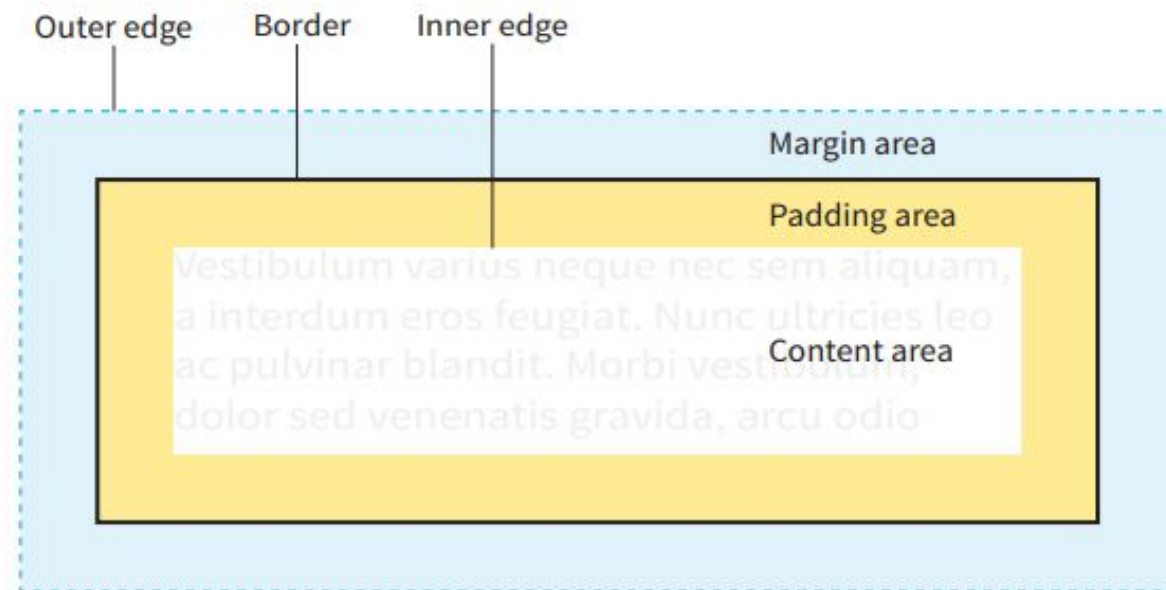
(HR Bukhari No 1469)

CSS Positioning dan Layouting

CSS Box

Setiap elemen dokumen HTML dapat berupa konten yang terdapat dalam sebuah kotak (box) yang memiliki property jarak seperti:

- Width
- Height
- Padding
- Border
- Margin



CSS Box

width

Values:	<i>length</i> <i>percentage</i> auto
Default:	auto
Applies to:	block-level elements and replaced inline elements (such as images)
Inherits:	no

height

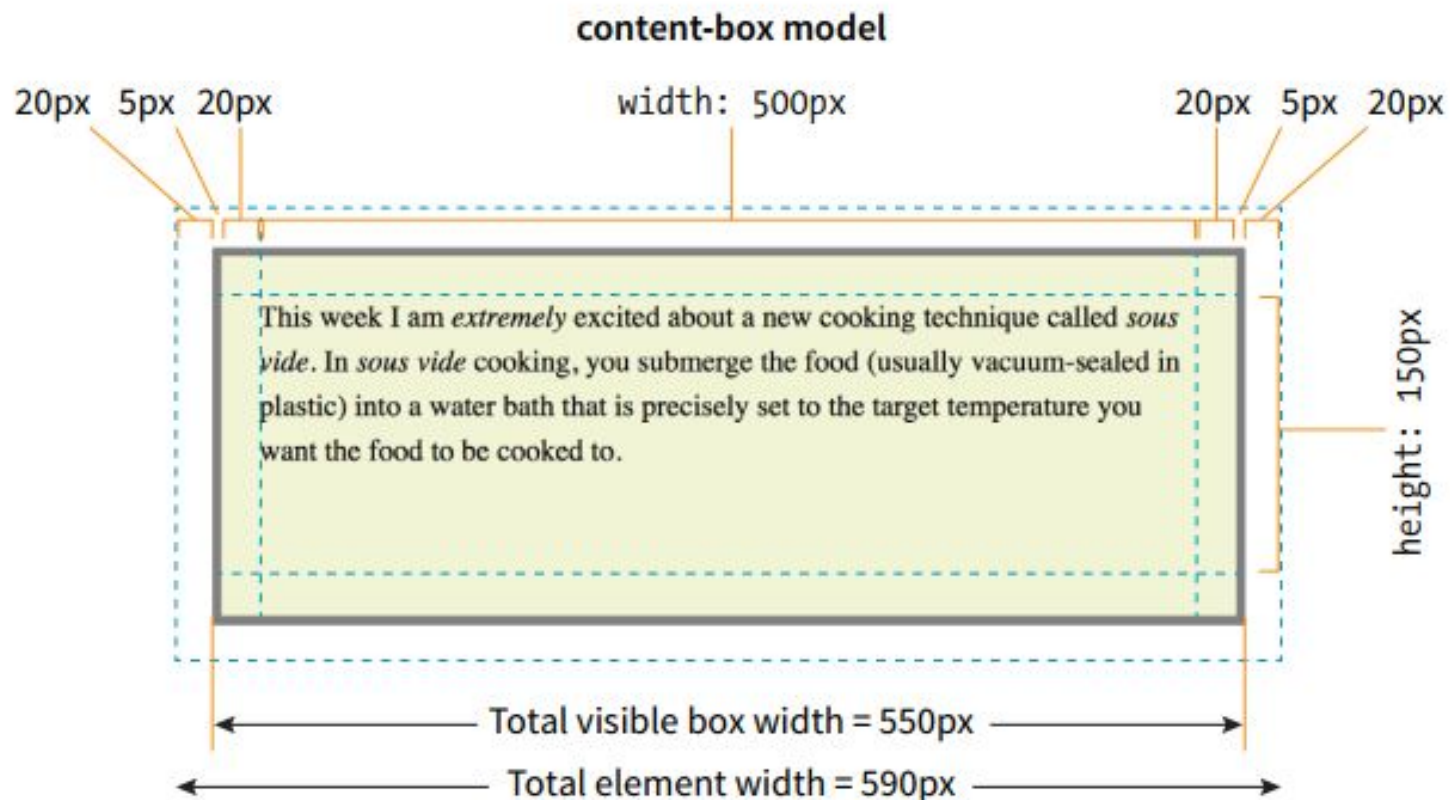
Values:	<i>length</i> <i>percentage</i> auto
Default:	auto
Applies to:	block-level elements and replaced inline elements (such as images)
Inherits:	no

box-sizing

Values:	content-box border-box
Default:	content-box
Applies to:	all elements
Inherits:	no

CSS Box

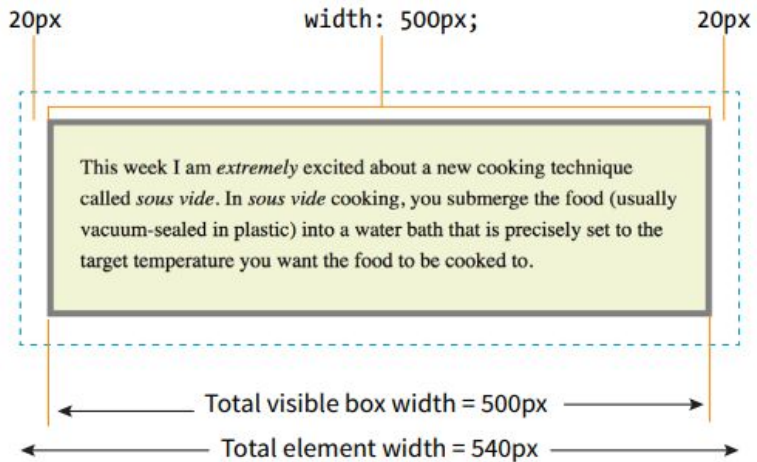
```
p {
  background: #f2f5d5;
  width: 500px;
  height: 150px;
  padding: 20px;
  border: 5px solid gray;
  margin: 20px;
}
```



CSS Box

```
p {  
  ...  
  box-sizing: border-box;  
  width: 500px;  
  height: 150px;  
}
```

border-box model



box-sizing: `content-box`;
width: 500px;

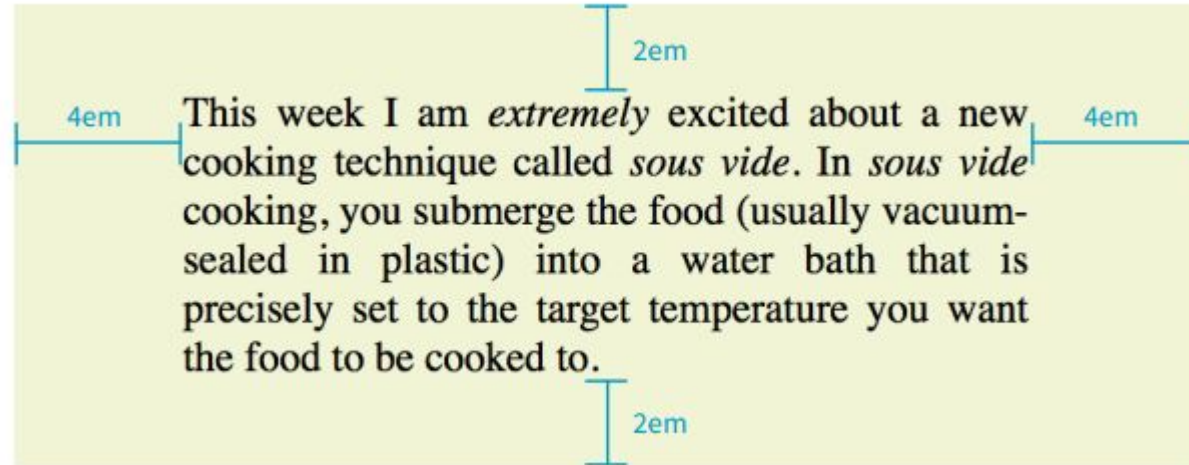
This week I am *extremely* excited about a new cooking technique called *sous vide*. In *sous vide* cooking, you submerge the food (usually vacuum-sealed in plastic) into a water bath that is precisely set to the target temperature you vacuum-sealed in plastic) into a water bath that is precisely set to the target temperature you want the food to be cooked to.

box-sizing: `border-box`;
width: 500px;

CSS Padding

padding

Values: *length | percentage*
Default: 0
Applies to: all elements
Inherits: no



padding-top, padding-right, padding-bottom, padding-left

Values: *length | percentage*
Default: 0
Applies to: all elements
Inherits: no

CSS Padding

Penerapan Padding (4 elemen arah jarum jam: top, right, bottom, left) bisa dilakukan dengan format berikut ini:

1 Nilai

```
padding: 10px ; /* semua 4 elemen bernilai 10px */
```

2 Nilai

```
padding: 10px 6px; /* nilai top dan bottom 10px, left dan right: 6px */
```

3 Nilai

```
padding: 10px 6px 4px; /* nilai top 10px, nilai left dan right 6px, nilai bottom: 4px */
```

4 Nilai

```
padding: 10px 6px 4px 10px; /* berturut2 nilai searah jarum jam: top, right, bottom, left
```

CSS Border Style

**border-top-style, border-right-style,
border-bottom-style, border-left-style**

Values: none | solid | hidden | dotted | dashed | double | groove | ridge | inset | outset

Default: none

Applies to: all elements

Inherits: no

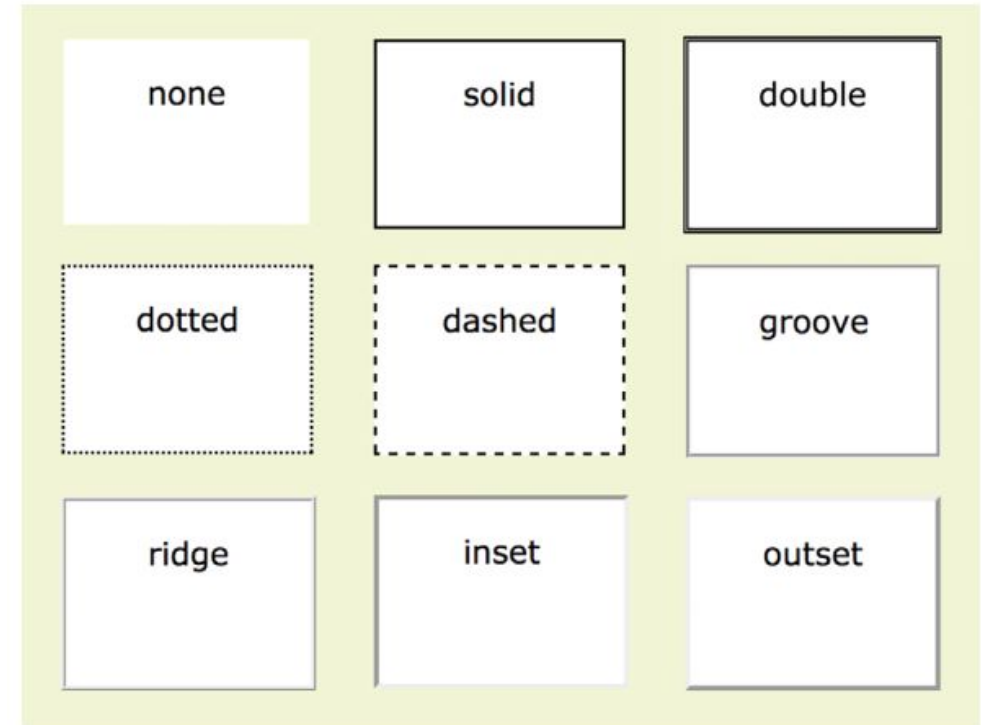
border-style

Values: none | solid | hidden | dotted | dashed | double | groove | ridge | inset | outset

Default: none

Applies to: all elements

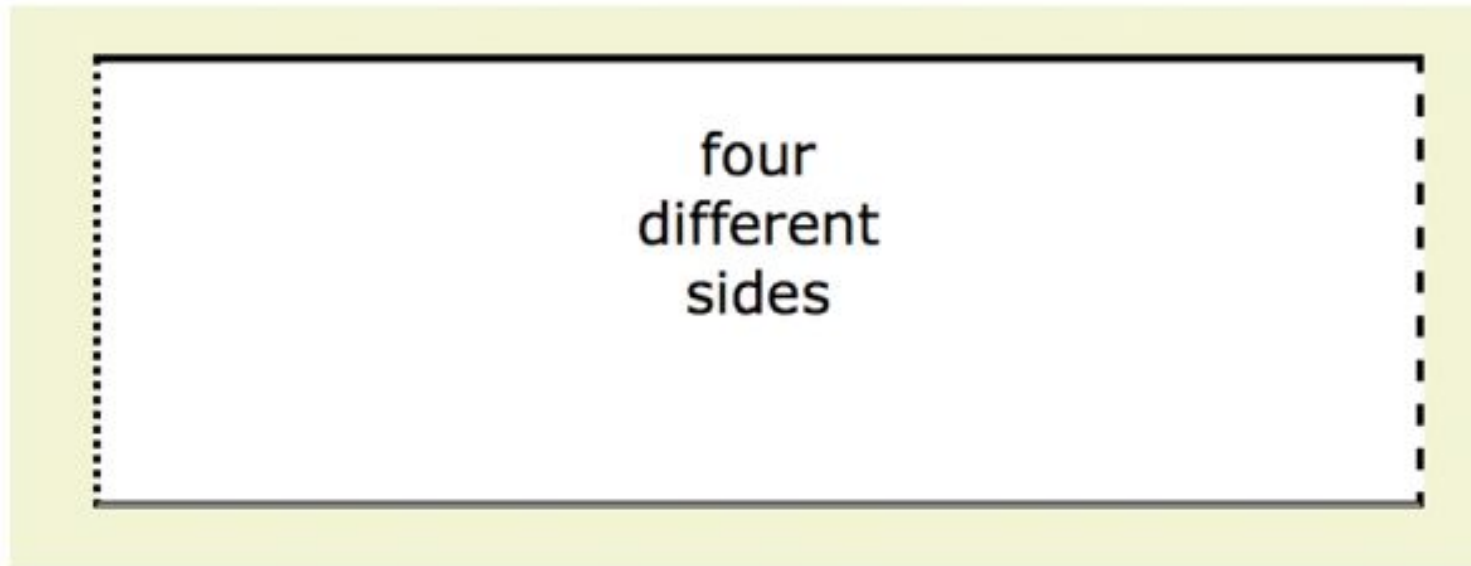
Inherits: no



CSS Border Style

Penerapan Nilai Border-Style urutan sesuai arah jarum jam: top, right, bottom, left

```
border-style: solid dashed double dotted;
```



CSS Border Width

Digunakan untuk menentukan ketebalan dari border

`border-top-width, border-right-width,
border-bottom-width, border-left-width`

Values: `length | thin | medium | thick`

Default: `medium`

Applies to: `all elements`

Inherits: `no`

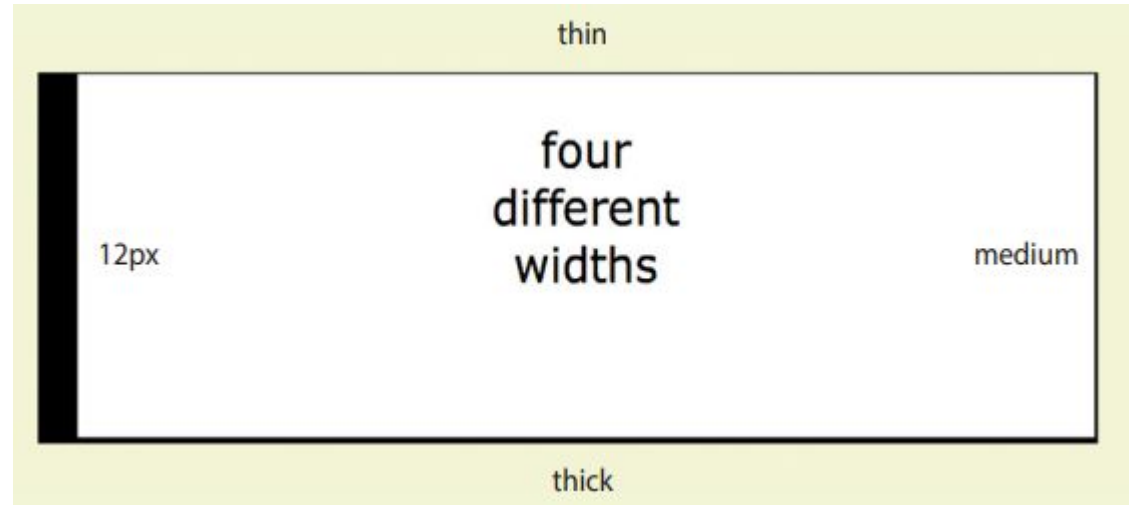
`border-width`

Values: `length | thin | medium | thick`

Default: `medium`

Applies to: `all elements`

Inherits: `no`



```
div#help {  
  border-width: thin medium thick 12px;  
  border-style: solid;  
  width: 300px;  
  height: 100px;  
}
```

CSS Border Color

Digunakan untuk menentukan warna dari border

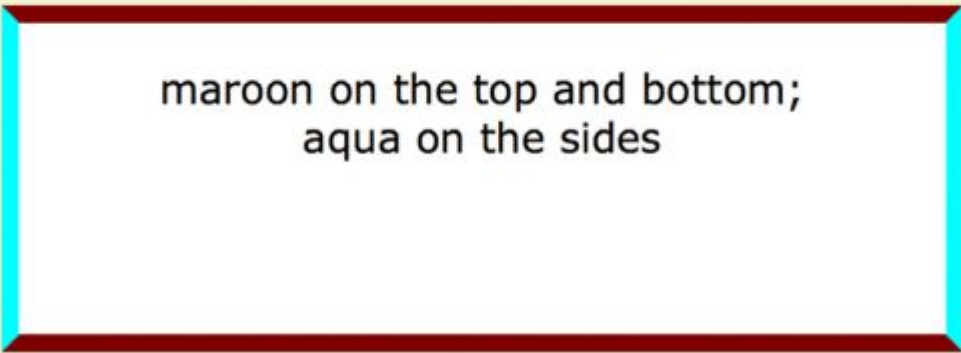
**border-top-color, border-right-color,
border-bottom-color, border-left-color**

Values: *color name or RGB/HSL value* | transparent
Default: the value of the color property for the element
Applies to: all elements
Inherits: no

border-color

Values: *color name or RGB/HSL value* | transparent
Default: the value of the color property for the element
Applies to: all elements
Inherits: no

```
div#special {  
  border-color: maroon aqua;  
  border-style: solid;  
  border-width: 6px;  
  width: 300px;  
  height: 100px;  
}
```



maroon on the top and bottom;
aqua on the sides

CSS Combination

Digunakan untuk memadukan style, border dan color elemen HTML

border-top, border-right, border-bottom, border-left

Values: *border-style border-width border-color*

Default: defaults for each property

Applies to: all elements

Inherits: no

```
h1 { border-left: red .5em solid; } /* left border only */
h2 { border-bottom: 1px solid; } /* bottom border only */
p.example { border: 2px dotted #663; } /* all four sides */
```

border

Values: *border-style border-width border-color*

Default: defaults for each property

Applies to: all elements

Inherits: no

CSS Rounded Corner

Digunakan untuk styling pojok kotak / box elemen

`border-top-left-radius`, `border-top-right-radius`,
`border-bottom-right-radius`, `border-bottom-left-radius`

Values: *length | percentage*

Default: 0

Applies to: all elements

Inherits: no



`border-radius: 1em;`

`border-radius`

Values: *1, 2, 3, or 4 length or percentage values*

Default: 0

Applies to: all elements

Inherits: no



`border-top-right-radius: 50px;`



`border-radius: 50px;`

CSS Margin

Digunakan untuk menentukan margin/jarak pada konten

margin-top, margin-right, margin-bottom, margin-left

Values: *length | percentage | auto*

Default: auto

Applies to: all elements

Inherits: no

margin

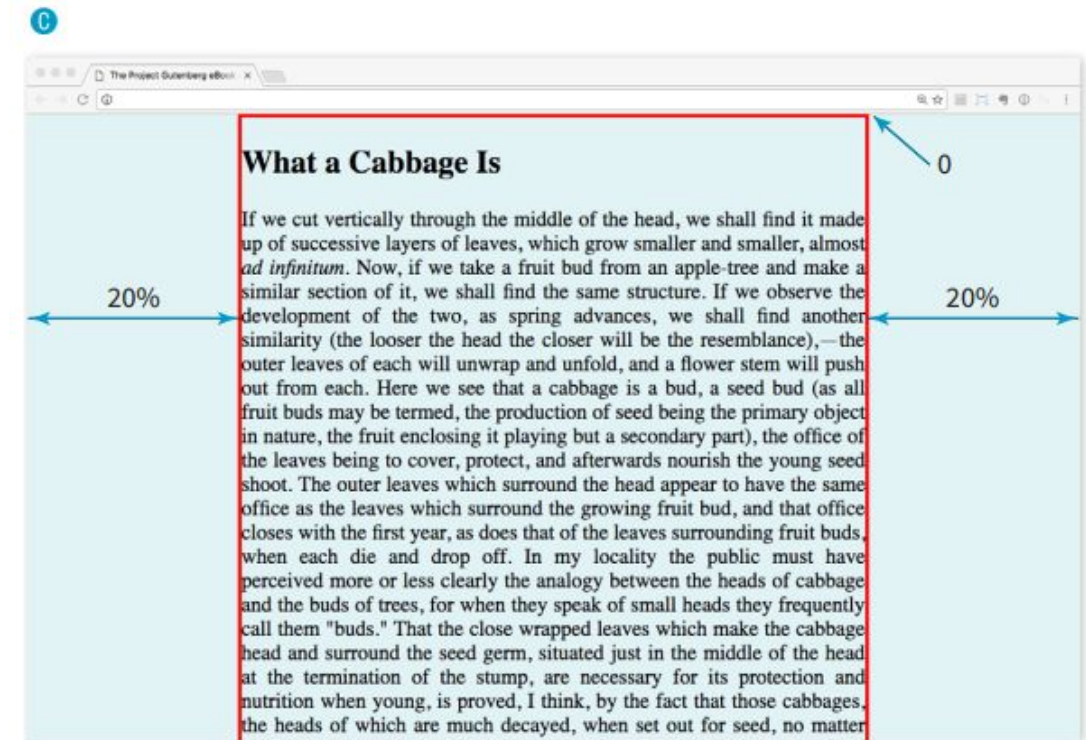
Values: *length | percentage | auto*

Default: auto

Applies to: all elements

Inherits: no

```
body {
  margin: 0 20%;
  border: 3px solid red;
  background-color: #e2f3f5;
}
```

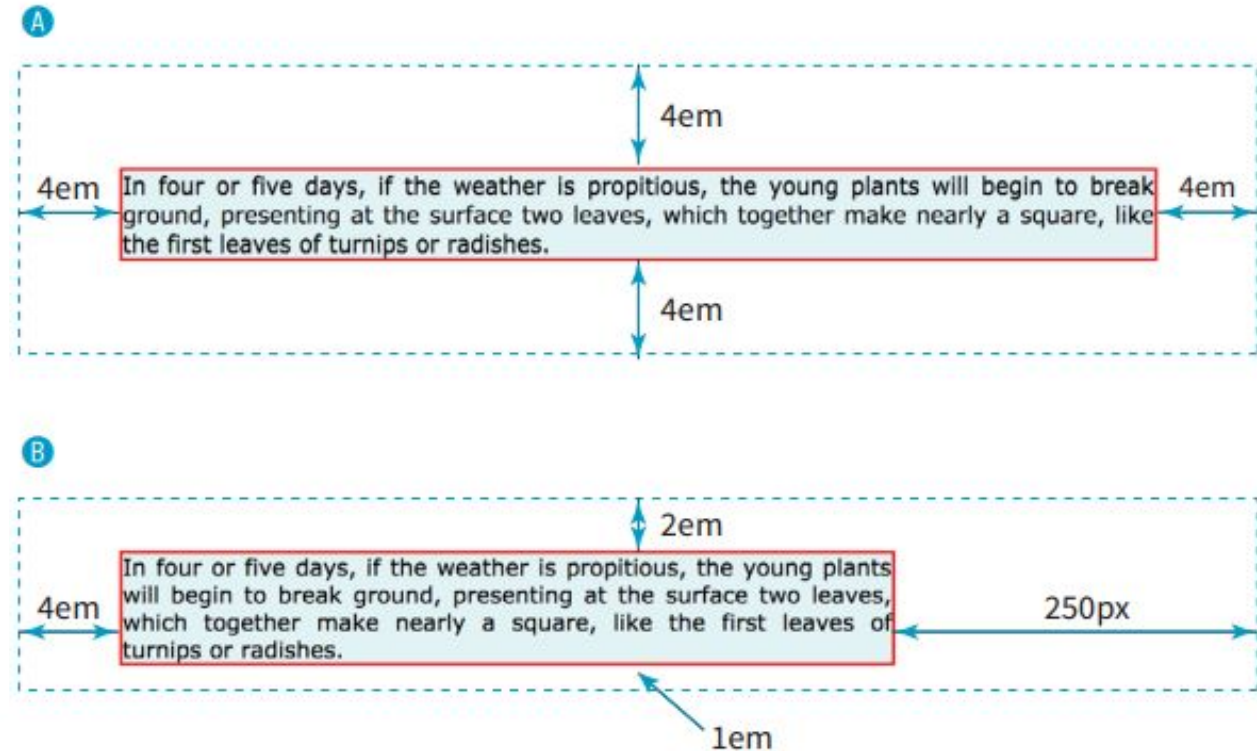


CSS Margin

Digunakan untuk menentukan margin/jarak pada konten

```

A  p#A {
    margin: 4em;
    border: 2px solid red;
    background: #e2f3f5;
}
B  p#B {
    margin-top: 2em;
    margin-right: 250px;
    margin-bottom: 1em;
    margin-left: 4em;
    border: 2px solid red;
    background: #e2f3f5;
}
    
```



CSS Box Properties

Property	Description
border	A shorthand property that combines border properties
border-top border-right border-bottom border-left	Combines border properties for each side of the element
border-color	Shorthand property for specifying the color of borders
border-top-color border-right-color border-bottom-color border-left-color	Specifies the border color for each side of the element
border-image	Adds an image inside the border area
border-image-outset	How far the border image should be positioned away from the border area.
border-image-repeat	The manner in which the image fills the sides of the border
border-image-slice	The points at which the border image should be divided into corners and sides
border-image-source	The location of the image file to be used for the border image

CSS Box Properties

Property	Description
<code>border-image-width</code>	The width of the space the border image should occupy
<code>border-radius</code>	Shorthand property for rounding the corners of the visible element box
<code>border-top-left-radius</code> <code>border-top-right-radius</code> <code>border-bottom-right-radius</code> <code>border-bottom-left-radius</code>	Specifies the radius curve for each individual corner
<code>border-style</code>	Shorthand property for specifying the style of borders
<code>border-top-style</code> <code>border-right-style</code> <code>border-bottom-style</code> <code>border-left-style</code>	Specifies the border style for each side of the element
<code>border-width</code>	Shorthand property for specifying the width of borders

CSS Box Properties

<code>border-top-width</code> <code>border-right-width</code> <code>border-bottom-width</code> <code>border-left-width</code>	Specifies the border width for each side of the element
<code>box-sizing</code>	Specifies whether width and height dimensions apply to the content box or the border box
<code>box-shadow</code>	Adds a drop shadow around the visible element box
<code>display</code>	Defines the type of element box an element generates
<code>height</code>	Specifies the height of the element's content box or border box
<code>margin</code>	Shorthand property for specifying margin space around an element
<code>margin-top</code> <code>margin-right</code> <code>margin-bottom</code> <code>margin-left</code>	Specifies the margin amount for each side of the element

CSS Box Properties

Property	Description
max-height	Specifies the maximum height of an element
max-width	Specifies the maximum width of an element
min-height	Specifies the minimum height of an element
min-width	Specifies the minimum width of an element
outline	Shorthand property for adding an outline around an element
outline-color	Sets the color of the outline
outline-offset	Sets space between an outline and the outer edge of the border
outline-style	Sets the style of the outline
outline-width	Sets the width of the outline
overflow	Specifies how to handle content that doesn't fit in the content area
padding	Shorthand property for specifying space between the content area and the border
padding-top padding-right padding-bottom padding-left	Specifies the padding amount for each side of the element
width	Specifies the width of an element's content box or border box

CSS Box Properties

Lorem ipsum dolor sit amet,
 consectetur adipiscing elit.
 Praesent porttitor venenatis
 mi. Nunc semper, orci a
 adipiscing tempus, magna
 nulla varius nisi, imperdiet
 fermentum nisi erat vel arcu.

All of the samples in this exercise start out styled as shown here and share the properties listed below.

```
p { background-color: #C2F670;  
width: 200px;  
height: 200px;}
```

Lorem ipsum dolor sit amet,
 consectetur adipiscing elit.
 Praesent porttitor venenatis
 mi. Nunc semper, orci a
 adipiscing tempus, magna
 nulla varius nisl, imperdiet
 fermentum nisi erat vel arcu.

A

2 em

Lorem ipsum dolor sit amet,
consectetur adipiscing elit.
Praesent porttitor venenatis
mi. Nunc semper, orci a
adipiscing tempus, magna
nulla varius nisl, imperdiet
fermentum nisi erat vel arcu.

2 em

B

Diagram illustrating text alignment and spacing. The text "Lorem ipsum dolor sit amet, consectetur adipiscing elit. Praesent porttitor venenatis mi. Nunc semper, orci a adipiscing tempus, magna nulla varius nisi, imperdiet fermentum nisi erat vel arcu." is displayed within a container. The container has a width of 4 pixels (indicated by a blue line and text) and a height of 2 em (indicated by a blue line and text). The text is centered horizontally and vertically within the container, with 2 em margins on the left and right sides.

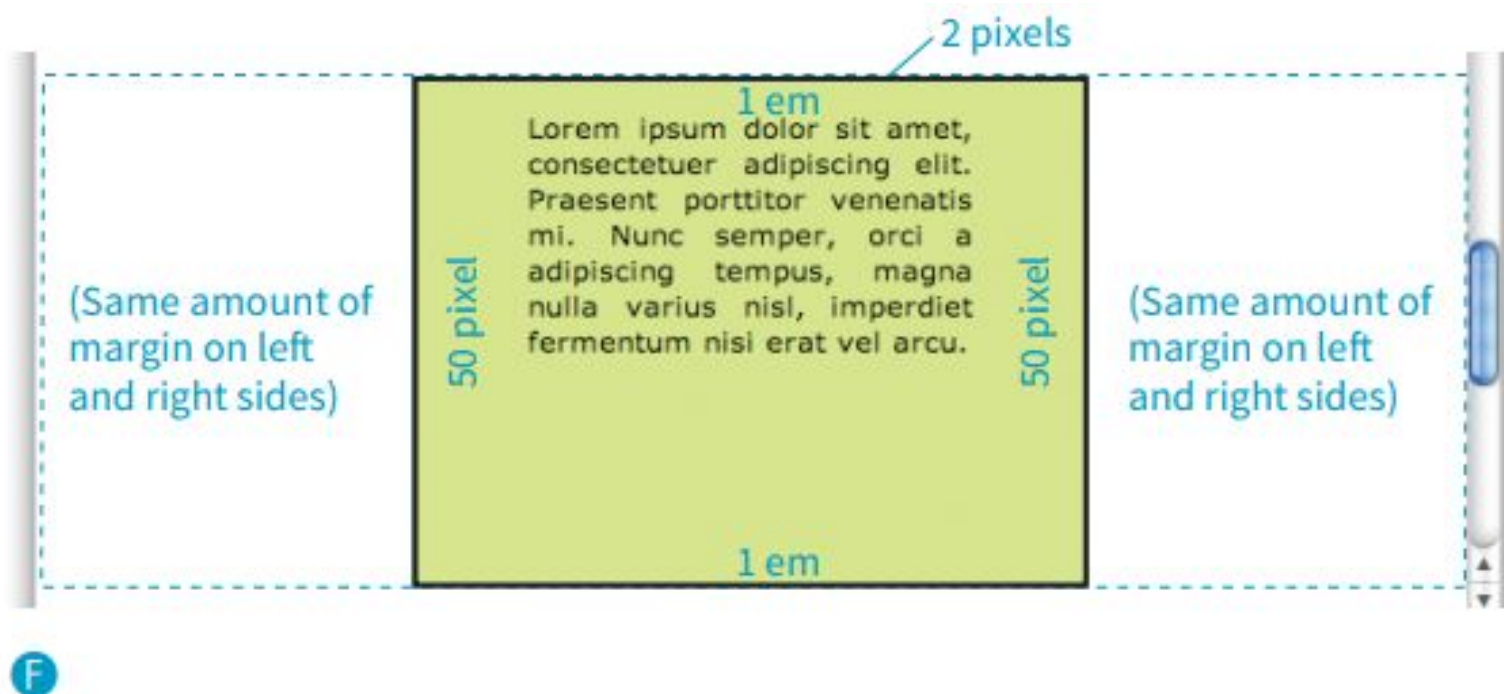
©

D

Diagram illustrating the relationship between em, ex, and pixels in CSS. A central green box with a dashed black border contains the text "Lorem ipsum dolor sit amet, consectetur adipiscing elit. Praesent porttitor venenatis mi. Nunc semper, orci a adipiscing tempus, magna nulla varius nisl, imperdiet fermentum nisi erat vel arcu." The box is labeled with dimensions: 6 em width and 6 em height. The text is labeled with dimensions: 1 em line height and 1 em font size. A line points from the text to the label "4 pixels".

E

CSS Box Properties



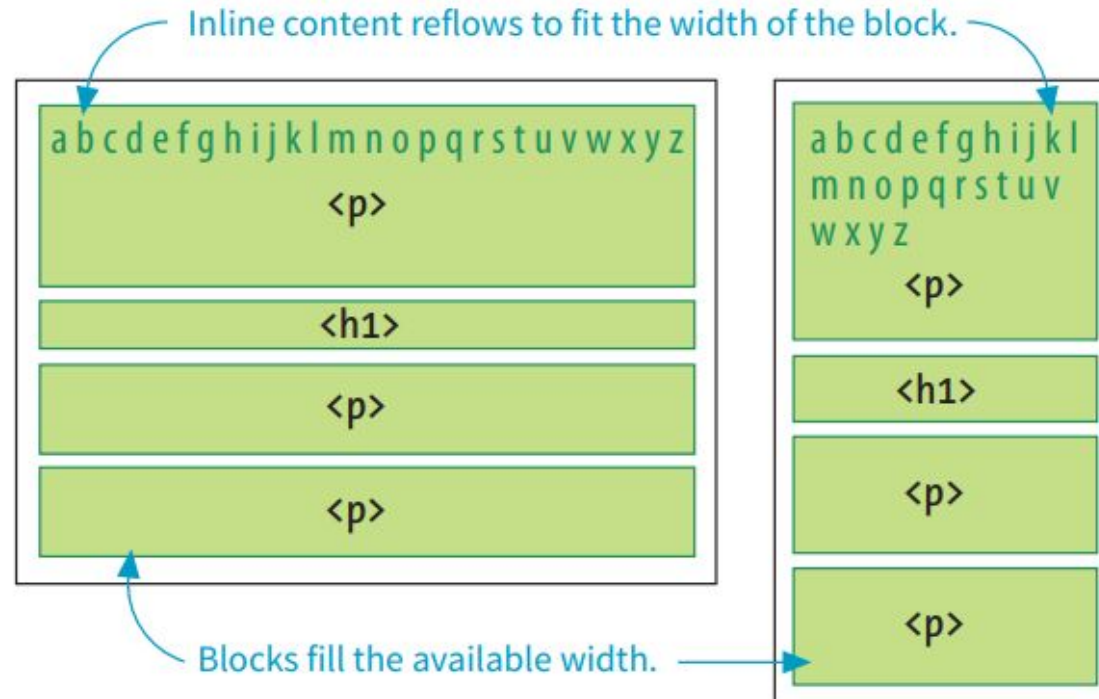
CSS Floating

Pada bagian ini akan dipelajari CSS untuk mengatur urutan aliran (flow) dari elemen dokumen ditampilkan

Normal Flow:

Urutan elemen HTML:

- 1.Paragraph
- 2.Heading 1
- 3.Paragraph
- 4.Paragraph



CSS Floating

Digunakan memindahkan / menggeser elemen HTML dari kiri atau kanan

float

Values: left | right | none

Default: none

Applies to: all elements

Inherits: no

THE MARKUP

```
<p> After the cream is frozen rather stiff,...
```

THE STYLES

```
img {  
  float: right;  
}
```

CSS Floating

Digunakan memindahkan /
menggeser elemen HTML ke kiri
atau kanan

THE MARKUP

```
<p> After  
stiff,...
```

THE STYLES

```
img {  
  float: right;  
}
```

Inline image in the normal flow

Space next to image is held clear



After the cream is frozen rather stiff, prepare a tub or bucket of coarsely chopped ice, with one-half less salt than you use for freezing. To each ten pounds of ice allow one quart of rock salt. Sprinkle a little rock salt in the bottom of your bucket or tub, then put over a layer of cracked ice, another layer of salt and cracked ice, and on this stand your mold, which is not filled, but is covered with a lid, and pack it all around, leaving the top, of course, to pack later on. Take your freezer near this tub. Remove the lid from the mold, and pack in the cream, smoothing it down until you have filled it to overflowing. Smooth the top with a spatula or limber knife, put over a sheet of waxed paper and adjust the lid.

Inline image floated to the right

Image moves over, and text wraps around it

After the cream is frozen rather stiff, prepare a tub or bucket of coarsely chopped ice, with one-half less salt than you use for freezing. To each ten pounds of ice allow one quart of rock salt. Sprinkle a little rock salt in the bottom of your bucket or tub, then put over a layer of cracked ice, another layer of salt and cracked ice, and on this stand your mold, which is not filled, but is covered with a lid, and pack it all around, leaving the top, of course, to pack later on. Take your freezer near this tub. Remove the lid from the mold, and pack in the cream, smoothing it down until you have filled it to overflowing. Smooth the top with a spatula or limber knife, put over a sheet of waxed paper and adjust the lid.



CSS Floating

Digunakan memindahkan / menggeser elemen HTML dari kiri atau kanan

```
img {  
  float: right;  
  margin: 1em;  
}
```

Indicates outer margin edge
(dotted line does not appear in the browser)

After the cream is frozen rather stiff, prepare a tub or bucket of coarsely chopped ice, with one-half less salt than you use for freezing. To each ten pounds of ice allow one quart of rock salt. Sprinkle a little rock salt in the bottom of your bucket or tub, then put over a layer of cracked ice, another layer of salt and cracked ice, and on this stand your mold, which is not filled, but is covered with a lid, and pack it all around, leaving the top, of course, to pack later on. Take your freezer near this tub. Remove the lid from the mold, and pack in the cream, smoothing it down until you have filled it to overflowing. Smooth the top with a spatula or limber knife, put over a sheet of waxed paper and adjust the lid.



CSS Floating

Digunakan memindahkan / menggeser elemen HTML dari kiri atau kanan

THE MARKUP

```
<p><span class="tip">TIP: Make sure that  
has a hole below the top of the mold so  
off.</span>After the cream is frozen rat  
bucket of...</p>
```

THE STYLES

```
span.tip {  
  float: right;  
  margin: 1em;  
  width: 200px;  
  color: #fff;  
  background-color: lightseagreen;  
  padding: 1em;  
}
```

After the cream is frozen rather stiff, prepare a tub or bucket of coarsely chopped ice, with one-half less salt than you use for freezing. To each ten pounds of ice allow one quart of rock salt. Sprinkle a little rock salt in the bottom of your bucket or tub, then put over a layer of cracked ice, another layer of salt and cracked ice, and on this stand your mold, which is not filled, but is covered with a lid, and pack it all around, leaving the top, of course, to pack later on. Take your freezer near this tub. Remove the lid from the mold, and pack in the cream, smoothing it down until you have filled it to overflowing. Smooth the top with a spatula or limber knife, put over a sheet of waxed paper and adjust the lid.

TIP: Make sure that your packing tub or bucket has a hole below the top of the mold so the water will drain off.

CSS Floating

Digunakan memindahkan / menggeser elemen HTML dari kiri atau kanan

THE STYLES

```
p {  
  border: 2px red solid;  
}  
  
#float {  
  float: left;  
  width: 300px;  
  margin: 1em;  
  background: white;  
}
```

If you wish to pack ice cream and serve it in forms or shapes, it must be molded after the freezing. The handiest of all of these molds is either the brick or the melon mold.

After the cream is frozen rather stiff, prepare a tub or bucket of coarsely chopped ice, with one-half less salt than you use for freezing. To each ten pounds of ice allow one quart of rock salt. Sprinkle a little rock salt in the bottom of your bucket or tub, then put over a layer of cracked ice, another layer of salt and cracked ice, and on this stand your mold, which is not filled, but is covered with a lid, and pack it all around, leaving the top, of course, to pack later on. Take your freezer near this tub.

cold water spigot, then quickly wipe the top and bottom and remove the lid. Loosen the pudding with a limber knife, hold the mold a little slanting, give it a shake, and nine times out of ten it will come out quickly, having the perfect shape of the can or mold. If the cream still sticks and refuses to come out, wipe the mold with a towel wrung from warm water. Hot water spoils the gloss of puddings, and unless you know exactly how to use it, the cream is too much melted to garnish.

Remove the lid from the mold, and pack in the cream, smoothing it down until you have filled it to overflowing. Smooth the top with a spatula or limber knife, put over a sheet of waxed paper and adjust the lid. Have a strip of muslin or cheese cloth dipped in hot paraffin or suet and quickly bind the seam of the lid. This will remove all danger of salt water entering the pudding. Now cover the mold thoroughly with ice and salt.

Make sure that your packing tub or bucket has a hole below the top of the mold, so that the salt water will be drained off. If you are packing in small molds, each mold, as fast as it is closed, should be wrapped in wax paper and put down into the salt and ice. These must be filled quickly and packed.

As cold water is warmer than the ordinary freezing mixture, after you lift the can or mold, wipe off the salt, hold it for a minute under the

CSS Floating

Implementasi float pada HTML

THE MARKUP

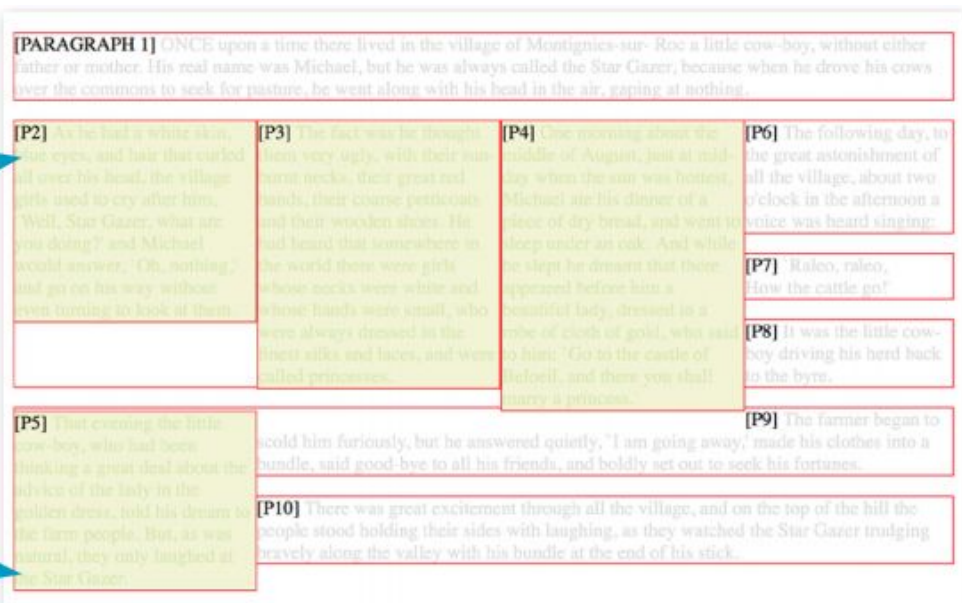
```
<p>[PARAGRAPH 1] ONCE upon a time...</p>
<p class="float">[P2]...</p>
<p class="float">[P3]...</p>
<p class="float">[P4]...</p>
<p class="float">[P5]...</p>
<p>[ P6]...</p>
<p>[ P7]...</p>
<p>[ P8]...</p>
<p>[ P9]...</p>
<p>[ P10]...</p>
```

THE STYLES

```
p.float {
  float: left;
  width: 200px;
  margin: 0px;
  background: #F2F5d5;
  color: #DAEAB1;
}
```

Elements floated to the same side line up.

If there is not enough room, subsequent elements move down and as far left as possible.



CSS Positioning

CSS memiliki beberapa metode untuk mengatur posisi suatu elemen HTML, Posisi dapat diatur dalam 4 kategori:

1. Static (posisi normal / default)
2. Relative
3. Absolute
4. Fixed

position

Values:	static relative absolute fixed
Default:	static
Applies to:	all elements
Inherits:	no

CSS Positioning

top, right, bottom, left

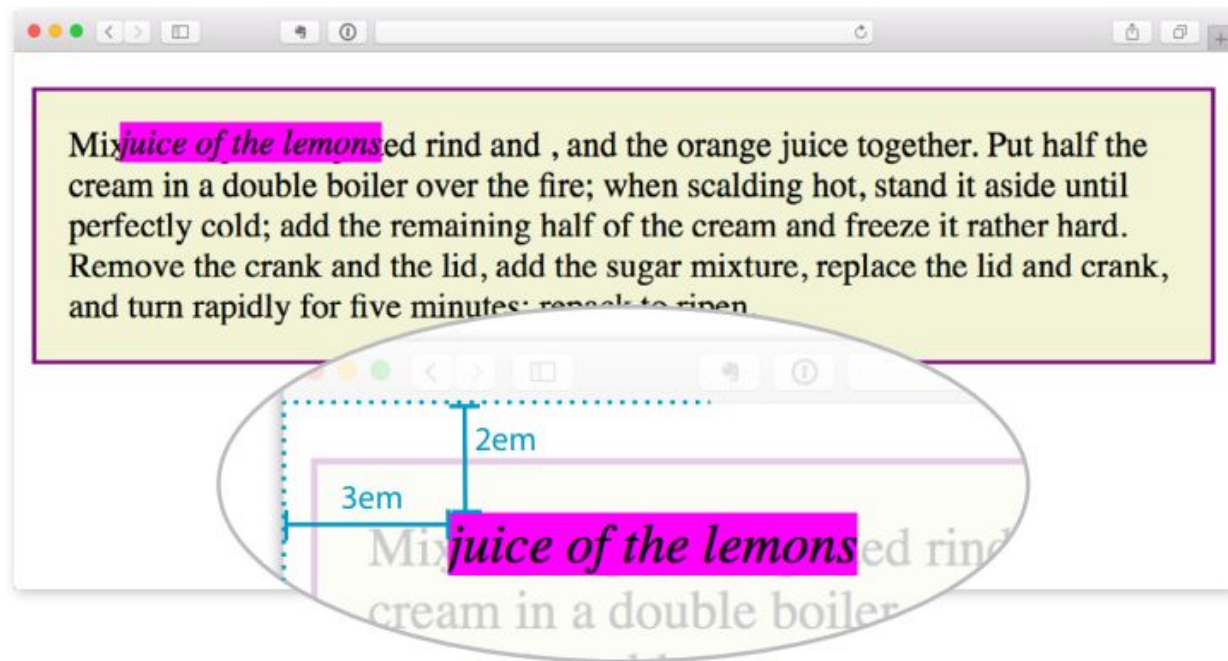
Values: *length | percentage | auto*

Default: auto

Applies to: positioned elements (where position value is relative, absolute, or fixed)

Inherits: no

```
em {  
  position: absolute;  
  top: 2em;  
  left: 3em;  
  background-color: fuchsia;  
}
```



CSS Positioning

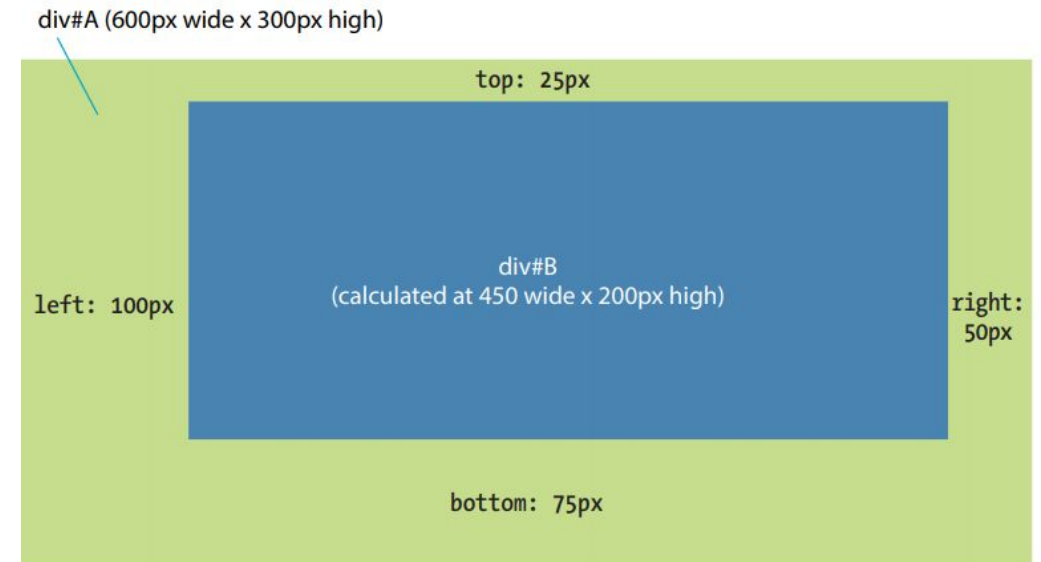
THE MARKUP

```
<div id="A">  
  <div id="B">&nbsp;</div>  
</div>
```

THE STYLES

```
div#A {  
  position: relative; /* creates the containing block */  
  width: 600px;  
  height: 300px;  
  background-color: #C6DE89; /* green */  
}
```

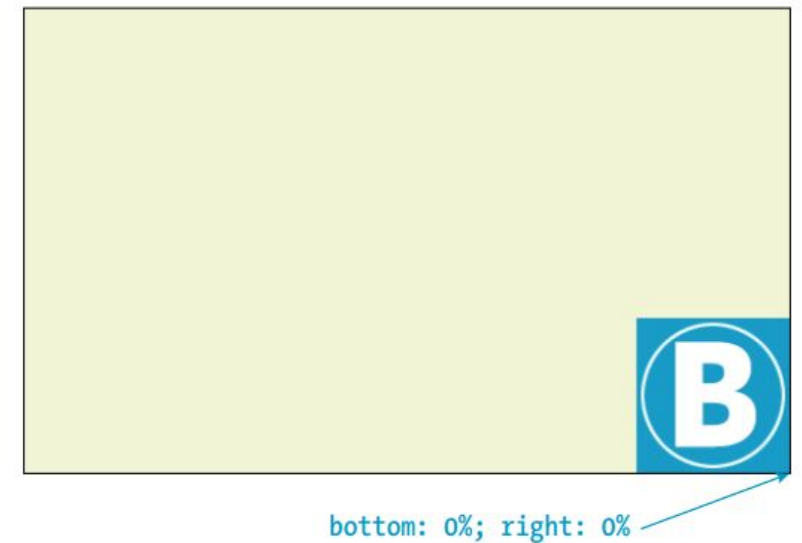
```
div#B {  
  position: absolute;  
  top: 25px;  
  right: 50px;  
  bottom: 75px;  
  left: 100px;  
  background-color: steelblue;  
}
```



CSS Positioning

Posisi konten dapat diatur menggunakan persentase

```
img#A {  
  position: absolute;  
  top: 50%;  
  left: 0%;  
}  
img#B {  
  position: absolute;  
  bottom: 0%;  
  right: 0%;  
}
```



CSS Positioning

Digunakan utk mengurutkan elemen yang bertumpuk

z-index

Values: *number* | auto

Default: auto

Applies to: positioned elements

Inherits: no

THE MARKUP

```
<p id="A"></p>
<p id="B"></p>
<p id="C"></p>
```

THE STYLES

```
#A {
  z-index: 100;
  position: absolute;
  top: 175px;
  left: 200px;
}
```

CSS Positioning

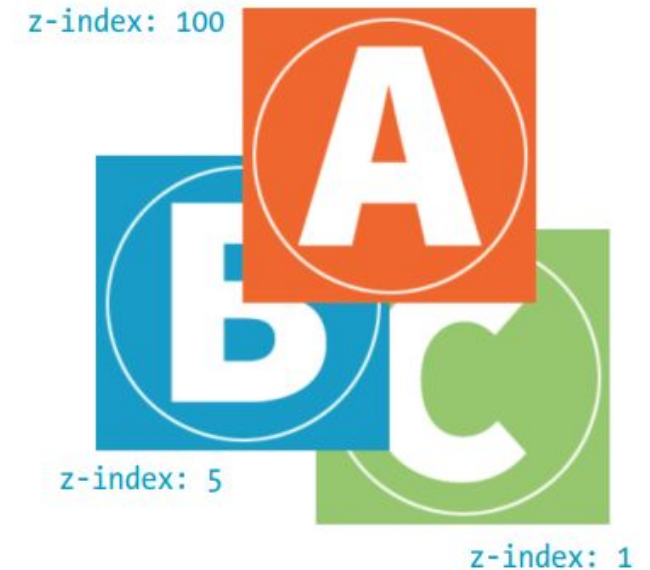
Digunakan utk mengurutkan elemen yang bertumpuk

THE STYLES

```
#A {  
  z-index: 100;  
  position: absolute;  
  top: 175px;  
  left: 200px;  
}  
  
#B {  
  z-index: 5;  
  position: absolute;  
  top: 275px;  
  left: 100px;  
}  
  
#C {  
  z-index: 1;  
  position: absolute;  
  top: 325px;  
  left: 250px;  
}
```



By default, elements later in the document source order stack on top of preceding elements.



You can change the stacking order with the z-index property. Higher values stack on top of lower values.

Tugas Web Dev

Ubahlah tugas website wisata kemarin dalam bentuk
floating

TERIMA KASIH