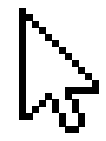




# Computer Science :

## HTML & CSS



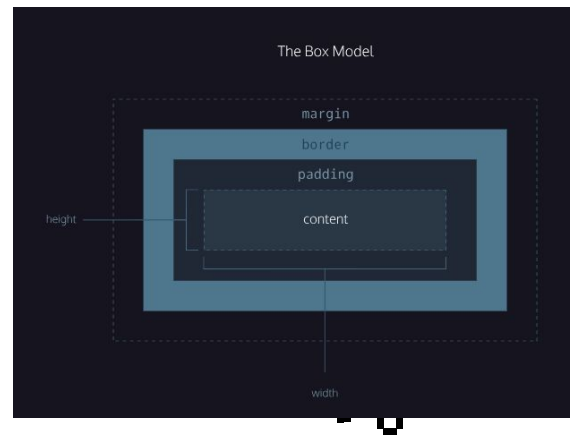
Week 3: Box-Model



# Box Model

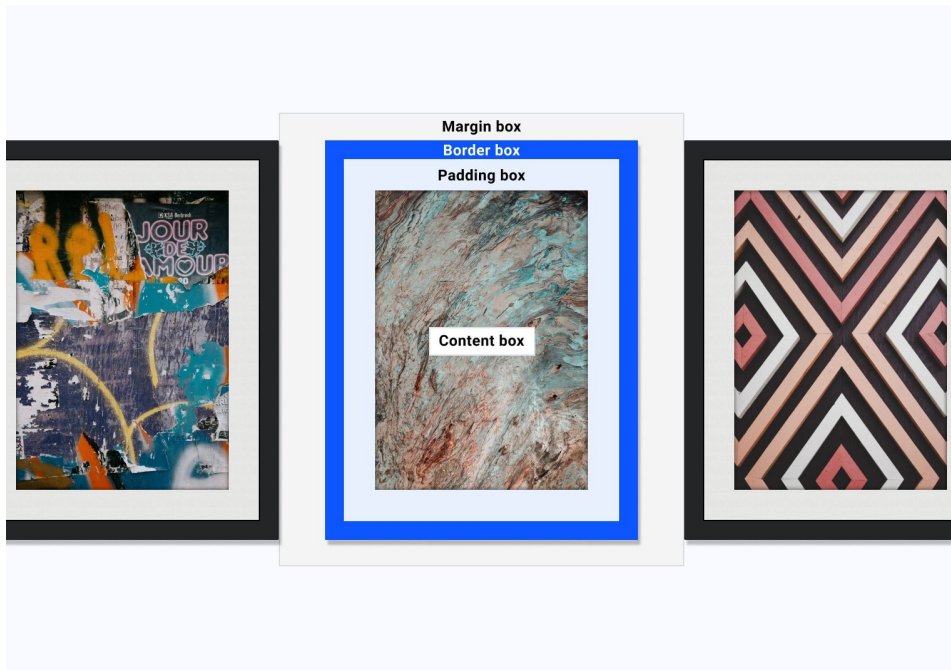
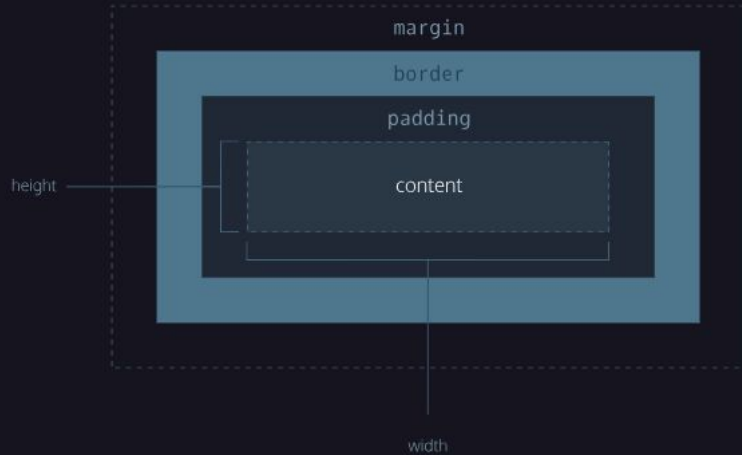
Represents the layout and the positioning of the page relative to the elements.

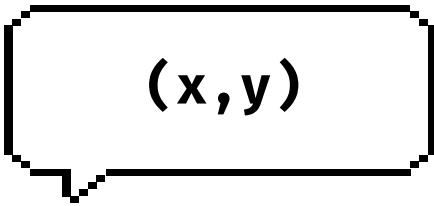
Box Model includes: dimensions, border, padding, and margins.





## The Box Model





01

# Dimensions

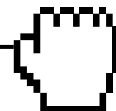
Contents dimensions



# Height and Width

```
Example: {  
    height: 50px;  
    width: 230px;  
}
```

Element's content are defined by  
height and width






# min. & max -width

Example: {  
    min-width: 200px;  
    max-width: 230px;  
}

Sets the minimum and maximum width  
of the element box

Makes text more legible





# min. & max -height

Example: {

```
    min-height: 400px;
```

```
    max-height: 330px;
```

```
}
```

Sets the minimum and maximum  
height of the element box

Makes text more legible





# overflow

Example: {  
    **overflow**: scroll;  
}

Used to correct element in the case that the element is larger than the containing area

Value:

**hidden** - any content that overflows will be hidden

**scroll** - scroll bar will be added to element bar to view

**visible** - overflowed content will display outside of element container

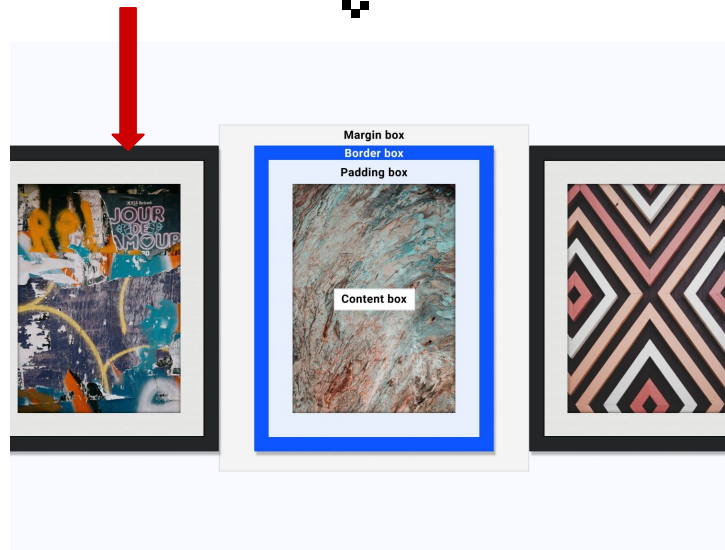
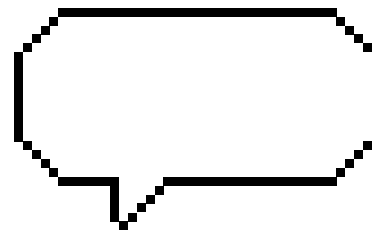




# 02

## Border

Line that surrounds the elements





# border

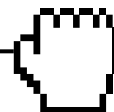
Example: {  
    border: [width] [style] [color];  
}

Width - thickness of the border; written with pixels  
or the values **thin**, **medium** or **thick**

Style - design of border; some values include **none**,  
**solid**, **dotted**, etc

Color - color of the border

If the width is excluded it will default to medium





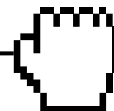
# border-radius

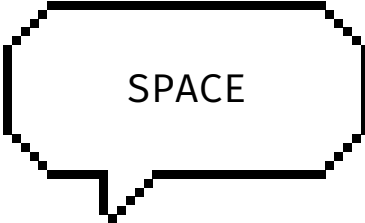
```
Example: {  
    border-radius: 10px;  
}
```

Borders represent the true shape of the elements, which is a square.

To modify the corners you can use border-radius

To create a perfect circle: set **height** and **width** to the **same value**, set **border-radius** to **50%**





# 03

## Padding



Space between the content box and the border



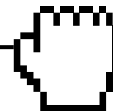
# padding

```
Example: {  
    padding: 10px;  
}
```

Size of space between border and content

Individual padding:

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



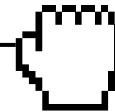


# Padding shortcut: 4 values

Example: {

```
padding: [top] [right] [left] [bottom];  
}
```

Instead of individually writing each value you can enter each value in one line **starting with the top in the clockwise direction**






# Padding shortcut: 3 values

Example: {  
padding: [top] [right & left] [bottom];  
}

If the right and left value are the same then the center value represents both





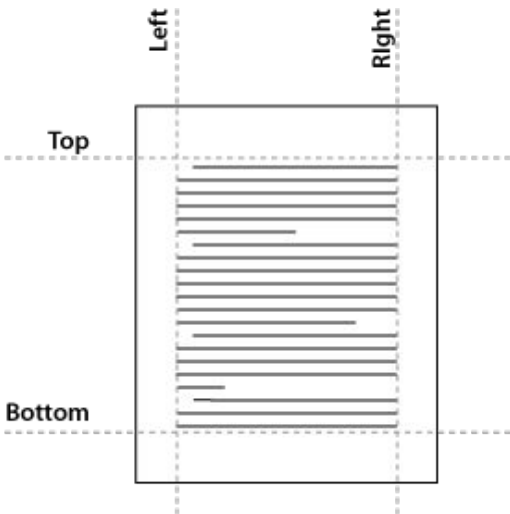
# Padding shortcut: 2 values

Example: {  
padding: [top & bottom] [right & left];  
}

The first value represents the top and bottom value

The second value represents the right and left





# 04

## Margin

Space outside of the content box





# margin

```
Example: {  
    margin: 25px;  
}
```

Specifies the size of this space.

Individual margins:

margin-top

margin-right

margin-bottom

margin-left






# margin shortcut: 4 values

Example: {

```
margin: [top] [right] [left] [bottom];  
}
```

Instead of individually writing each value you can enter each value in one line **starting with the top in the clockwise direction**






# margin shortcut: 3 values

Example: {  
    margin: [top] [right & left] [bottom];  
}

If the right and left value are the same then the center value represents both





# margin shortcut: 2 values

Example: {  
    margin: [top & bottom] [right & left];  
}

The first value represents the top and bottom value

The second value represents the right and left





# margin auto

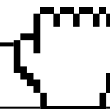
```
Example: {  
    width: 200px;  
    margin: 0 auto;  
}
```

Allows you to center content.

First, set the **width**

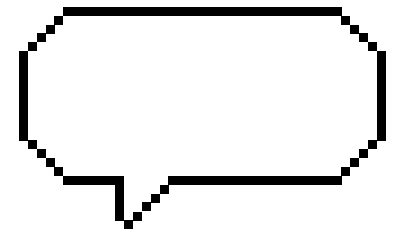
**0** - sets the top and bottom to 0

**auto** - adjust the left and right margin  
until the content is centered





05



Other Text

Line that surrounds the elements



# visibility

```
Example: {  
    visibility: hidden;  
}
```

Elements visibility.

Value:

**hidden** - hides element

**visible** - display elements

**collapse** - collapses element

