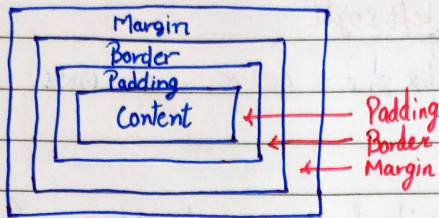# Chapter 3 - CSS Box Model

The CSS box model looks at all the HTML elements as boxes

Setting width & Height

We can set width and height in CSS as follows

```
#box {
    height : 70 px;
    width : 70 px;
}
```

Note that the total width/height is calculated as follows:

Total height = height + Top/bottom padding + top/bottom border + top/bottom margin

Setting Margin & Padding

We can set margin and padding as follows:

```
·box {
    margin : 3px;        } Sets top, bottom, left & right values
    padding : 4 px;      }
}
```

· boxMain {
    margin : 7px 0px 2px 11px;
    }

top → right → bottom → left

top
left (↻) right
bottom
clockwise
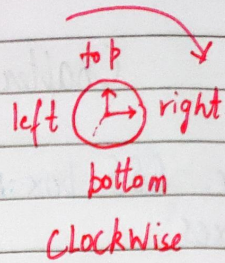
· boxLast {
    margin : 7px 3px ;
    }

top & bottom ↑   left & right ↑

We can also set individual margins/paddings like this :

margin - top : 70px
margin - bottom : 3px
margin - left : 8px
margin - right : 9px

} Same goes with padding

✓

Setting Borders

We can set the border as follows

· bx {
    border-width : 2px;
    border-style : solid;
    border-color : red;
    }

} or just set border : 2px solid red;
(Shorthand)

✓

Border Radius

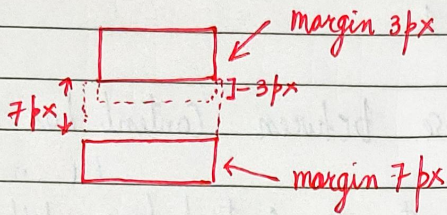We can set border radius to create rounded borders

· div 2 {
    border-radius : 7px;
    }

Margin Collapse

When two margins from different elements overlap, the equivalent margin is the greater of the two. This is called margin collapse

margin 3px

] - 3px

7px

margin 7px

→ Margin between them is collapsed to the bigger margin

Box Sizing

Determines what out of padding and border is included in element's width and height

Can be content-box or border-box

↳ Include only content in width/height

```
· div 1 {
    box-sizing : border-box;
}
```

↳ The content width and height includes content + padding + border