

</talentlabs>

CHAPTER 10

Sizing & Box Model





</talentlabs>

AGENDA

- Height/Width
- Margin
- Padding
- Box Model

Height/Width



CSS Height/Width

- Custom width/height for HTML elements.
- Either in pixels, or in percentage
- Percentage is relative to the container.

HTML

```
<p>I am a paragraph</p>
```

CSS

```
p {  
  border: 1px solid red;  
  width: 100%;  
  height: 30px;  
}
```

I am a paragraph

30px

width: 100%;

Half Width

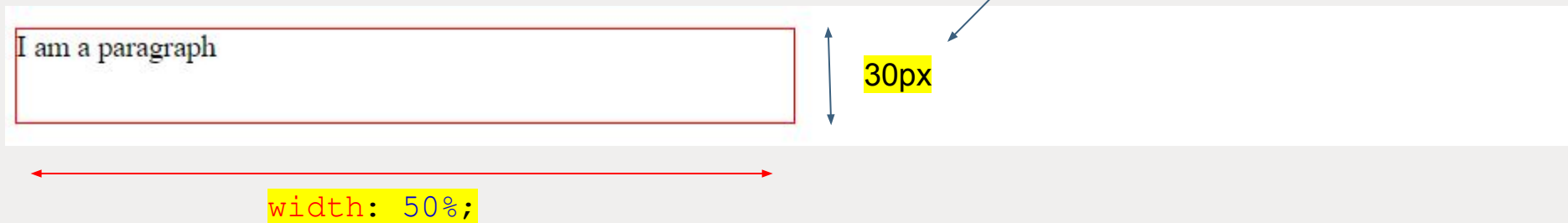
Notice the difference when we set the width to 50% of the container

HTML

```
<p>I am a paragraph</p>
```

CSS

```
p {  
  border: 1px solid red;  
  width: 50%;  
  height: 30px;  
}
```



Min/Max Width

Note:
We can also set min-height
similar to min-width

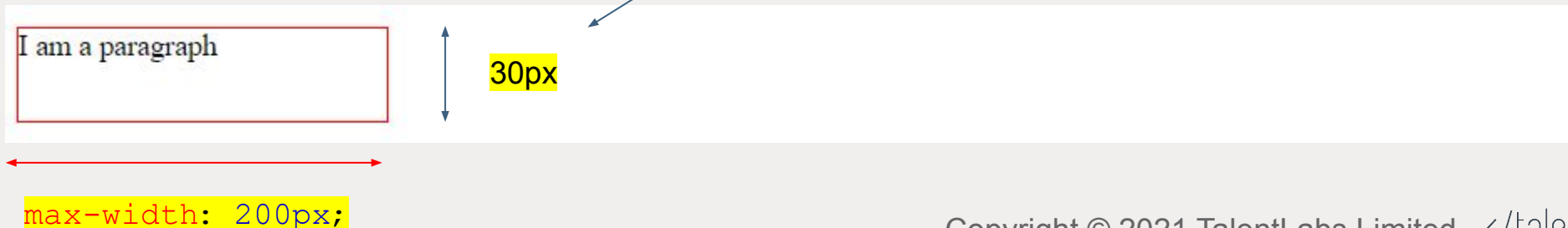
We can set a max-width constraint.
This will ensure the width of the `<p>` tag never exceeds a certain value.
We can also set a min-width value.

HTML

```
<p>I am a paragraph</p>
```

CSS

```
p {  
  border: 1px solid red;  
  width: 50%;  
  max-width: 200px;  
  height: 30px;  
}
```



Margin



CSS Margin

Margins are applied to elements for allocating space outside its designated borders

HTML

```
<h1>Margins</h1>  
<p>I am a paragraph</p>
```

CSS

```
#p {  
    color: 1px solid red;  
}
```

Margins

I am a paragraph

NO MARGIN APPLIED

CSS Margin

Margins are used to create space around elements, outside of any defined borders.

HTML

```
<h1>Margins</h1>  
<p>I am a paragraph</p>
```

CSS

```
p {  
    color: 1px solid red;  
    margin: 50px;  
}
```

Margins



Margin Direction

Margins can also be applied on specific directions


HTML

```
<h2>Margin Left</h2>  
<p>I am a paragraph</p>
```

CSS

```
p {  
    color: 1px solid black;  
    margin-left: 80px;  
}
```

Margin left



← 80px → I am a paragraph

The diagram illustrates the 'margin-left' property. It shows a rectangular box containing the text 'I am a paragraph'. To the left of this box, there is a red double-headed arrow indicating a distance of 80px from the left edge of the page to the left edge of the box. A blue arrow points from the 'margin-left: 80px;' line in the CSS code block above to this diagram.

margin-right / margin-top / margin-bottom are used for right, top and bottom margins respectively

Shorthand Syntax

There are some special margin shortcuts that can be applied to reduce syntax

`margin: 25px 50px 75px 100px;`

- top margin: 25px
- right margin: 50px
- bottom margin: 75px
- left margin: 100px

`margin: 25px 50px;`

- top and bottom margins: 25px
- right and left margins: 50px

`margin: 25px;`

- all four margins are 25px

Padding



CSS Padding

Padding is applied to elements for allocating space between the content and its designated borders

HTML

```
<p>I am a paragraph</p>
```

CSS

```
p {  
    border: 1px solid red;  
    padding: 20px;  
}
```

I am a paragraph



20px Padding

Padding Direction

Padding, like margin, also has specific directions

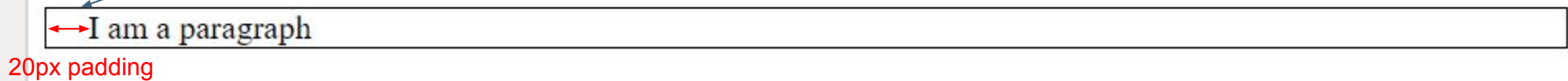
HTML

```
<h2>Padding Left</h2>  
<p>I am a paragraph</p>
```

CSS

```
p {  
    color: 1px solid black;  
    padding-left: 20px;  
}
```

Padding Left



padding-right / padding-top / padding-bottom are used for right, top and bottom padding

Padding Shorthand

There are some special margin shortcuts that can be applied to reduce syntax

`padding: 25px 50px 75px 100px;`

- top padding: 25px
- right padding: 50px
- bottom padding: 75px
- left padding: 100px

`padding: 25px 50px;`

- top and bottom paddings: 25px
- right and left paddings: 50px

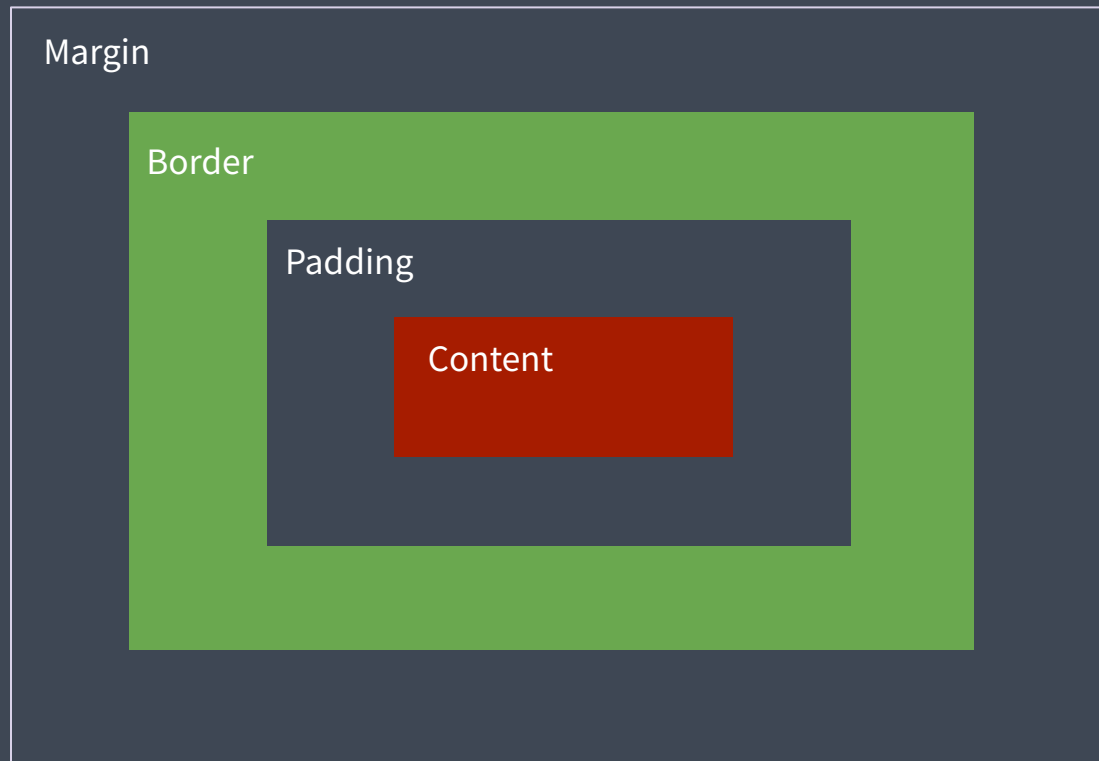
`padding 25px;`

- all four paddings are 25px

Box Model



Box Model: Margin, Padding and Border



- **Content**
 - The main content showcasing text, images etc.
- **Padding**
 - Applies space between border and content
 - Padding is not visible
- **Border**
 - A rectangular strip that encloses the area outside of the padding and content
- **Margin**
 - Applies space outside the border
 - Margin is not visible

That's all for this module!

THANK YOU!

