THE BOX MODEL

THE MODEL

Margin

Border

Padding

Content
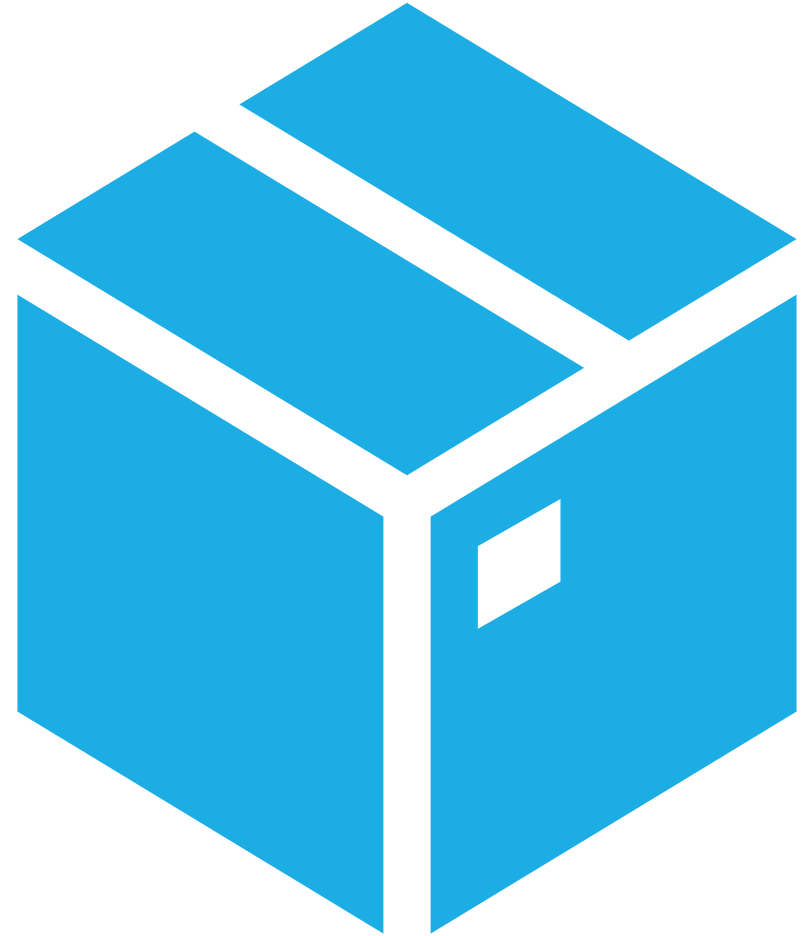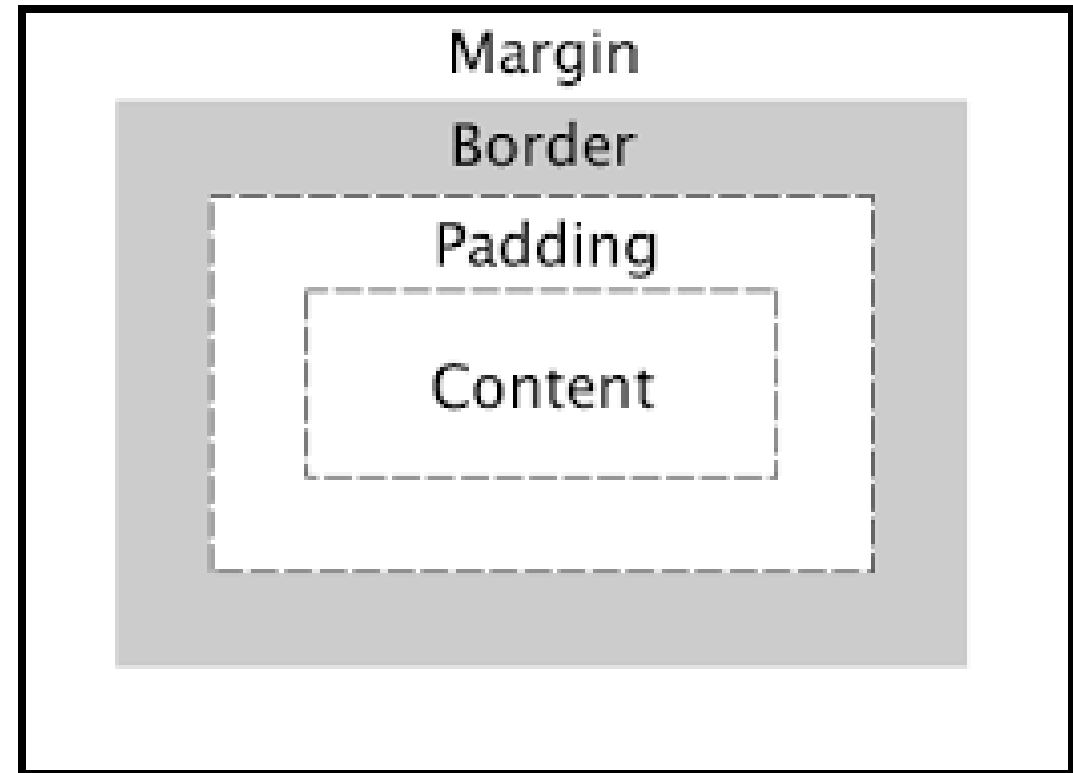
MARGIN

Margin is the outer most layer of the box model. You use it to create space around your elements outside of their borders.

As with any layer of the box model, you can interact with the top, left, bottom, or right side individually.

Example:

```css
div {
    margin-top: 10px;
    margin-left: 20px;
    margin-right: 30px;
    margin-bottom: 40px;
}
```

MARGIN CONT.

You do not need to specify margin direction in your CSS if you learn the shorthand notation for it.

Apply to all sides:

```css
div {

    margin: 10px;

}
```

10px top, 20px left and right, 30px bottom:

```css
div {

    margin: 10px 20px 30px;

}
```

10px top and bottom, 20px right and left

```css
div {

    margin: 10px 20px;

}
```

MARGIN CONT.

10px top, 20px right, 30px bottom, 40px left

```css
div {

    margin: 10px 20px 30px 40px;

}
```

PADDING

The padding property is used to create space between the content and the border of the element.

```
div {

    padding-top: 10px;

    padding-right: 10px;

    padding-bottom: 10px;

    padding-left: 10px;

}
```

All of the shorthand rules are the same format as the margin, simply replace "margin:" with "padding:"

BORDER

The border property is the most obvious property, it defines a border around your padding. This border can have different colors, styles, widths, etc.

```css
div {

    border-width: 1px;

    border-style: dashed;

    border-color: #000000;

}
```

Shorthand:

```css
div {

    border: 1px dashed #000000;

}
```

KNOWLEDGE CHECK

Let's mess around with the box model:

1. Follow the Git/GitHub workflow to create a folder called BoxModel in your Scratch folder.

2. Add a basic index.html and style.css with the following:
   1. At least 3 **text based** content tags
   2. At least 1 **image based** content tag
   3. At least 2 **semantic tags** to group these content tags

3. In the style.css file add the following style:
   1. Give each content tag a different background color
   2. Give each semantic tag a different background color different from the content tags colors

4. Add at least 6 margin CSS rules

5. Add at least 6 padding CSS rules

6. Add, commit and push your code

The box model is the first step towards having the ability to create some pretty impressive layouts.

While basic, it is a powerful design concept that can make the difference between a site that looks professional and one that looks awful.