

A top-down view of a workspace featuring a laptop, a cup of coffee, and a smartphone. The laptop keyboard is visible in the upper right, with keys like 'esc', 'F1', 'F2', 'Q', 'W', 'E', 'A', 'S', 'D', 'C', 'Z', 'X', 'V', 'cmd', and 'fn' clearly shown. To the left of the keyboard is a white cup filled with a frothy, brown beverage. In the bottom center, a smartphone screen displays a social media profile with statistics such as '16.8 k followers' and '191 following'. The entire scene is overlaid with a semi-transparent dark grey filter, and the text 'CSS Box Model' is centered in a large, white, serif font, flanked by two horizontal red lines.

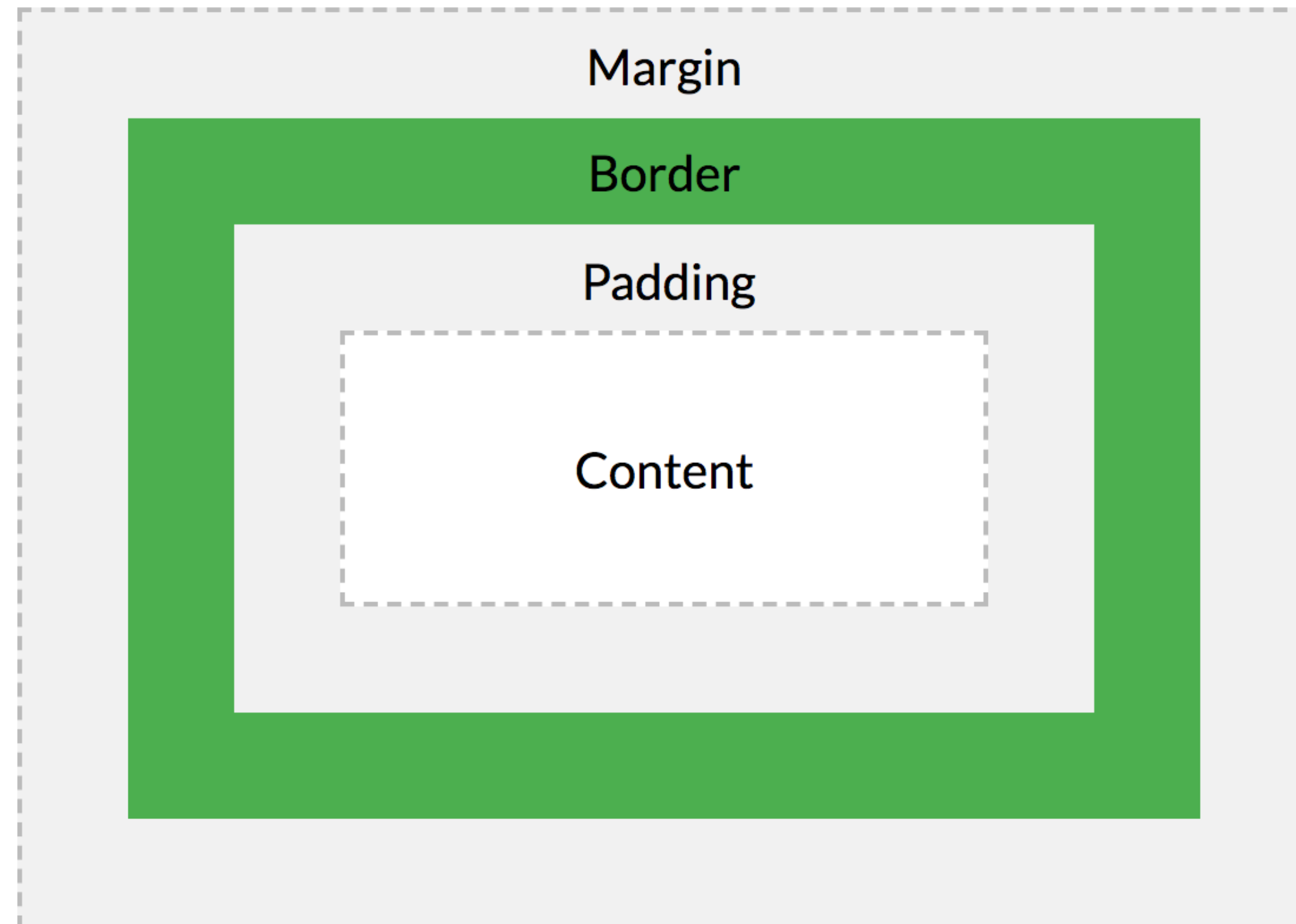
CSS Box Model

WEEK 4

BOX MODEL



BOX MODEL



The CSS box model is essentially a box that wraps around every HTML element.

It consists of:
borders, padding, margins, and
the actual content.

BOX MODEL

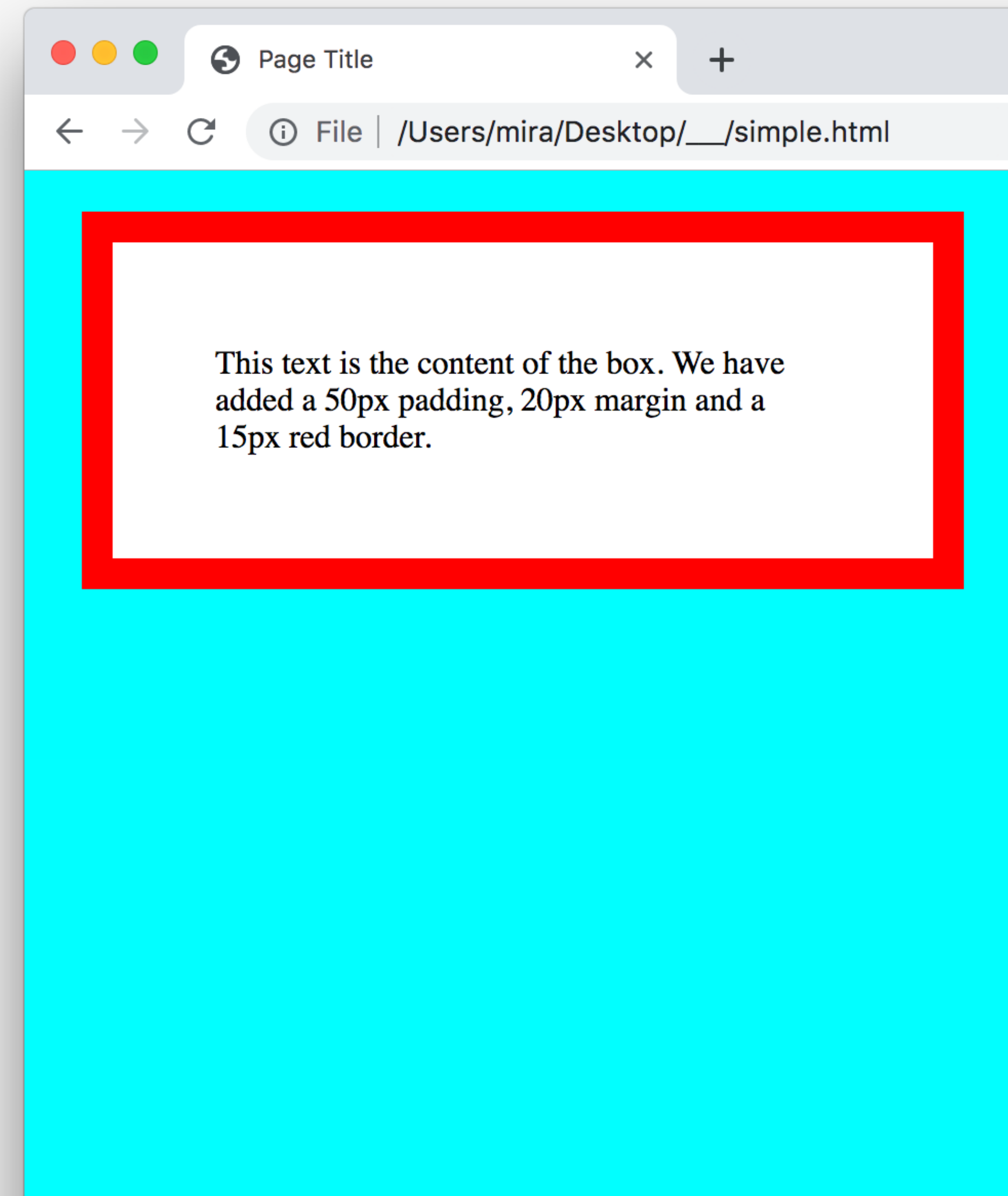
```
<style>
  div {
    background-color: white;
    width: 300px;
    border: 15px solid #FF0000;
    padding: 50px;
    margin: 20px;
  }
</style>

</head>

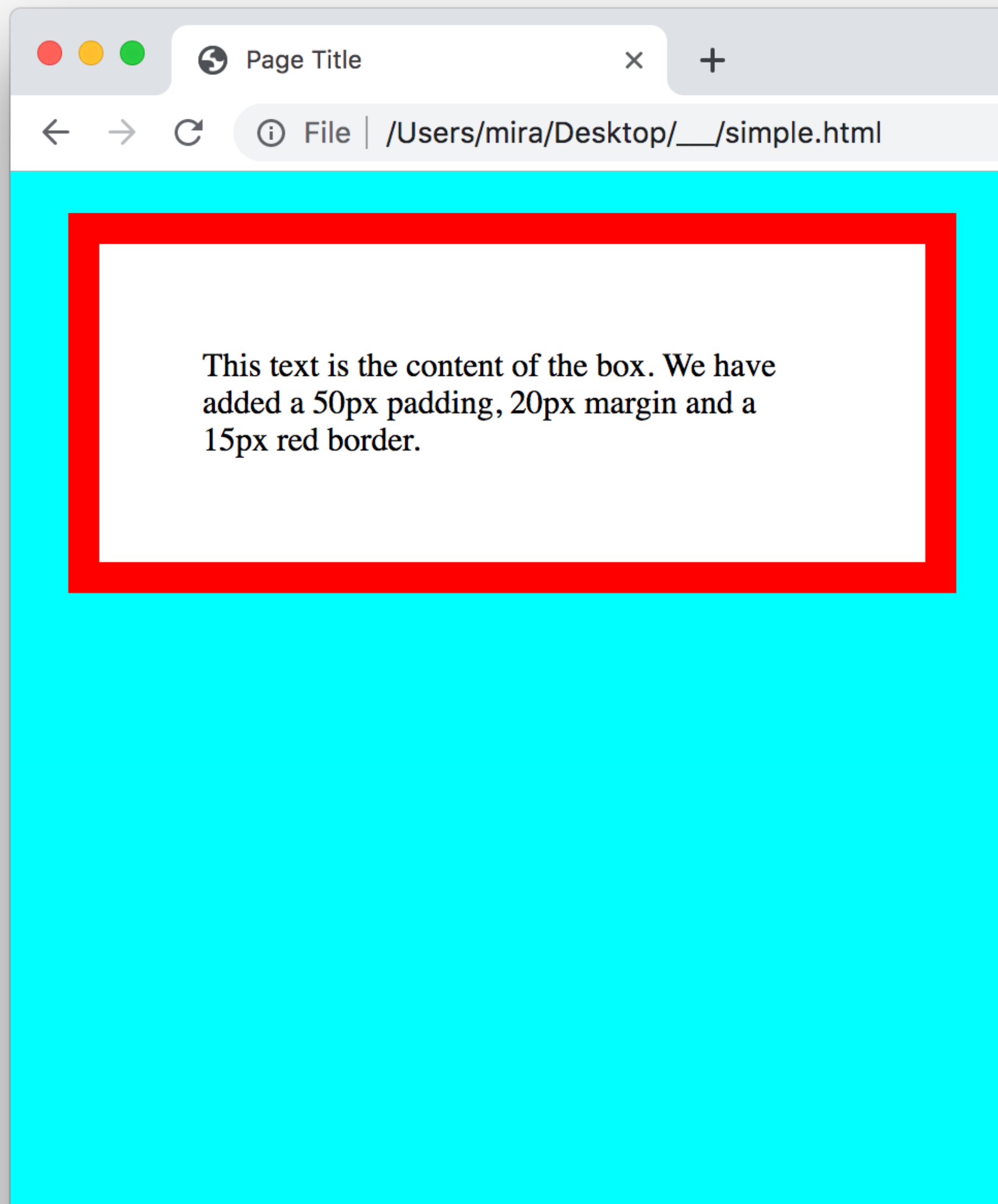
<body style="background-color: aqua;">

  <div>This text is the content of the box.
    We have added a 50px padding, 20px
    margin and a 15px green border.
  </div>

</body>
```



BOX MODEL



```
<style>
  div {
    background-color: white;
    width: 300px;
    border: 15px solid #FF0000;
    padding: 50px;
    margin: 20px;
  }
</style>
```

MUST-HAVE: BOX SIZING

* `{box-sizing: border-box;}`

PROPERTY

defines how the width and height of an element are calculated: should they include padding and borders, or not

SELECTOR

“EVERY ELEMENT”

MUST-HAVE: BOX SIZING

CSS

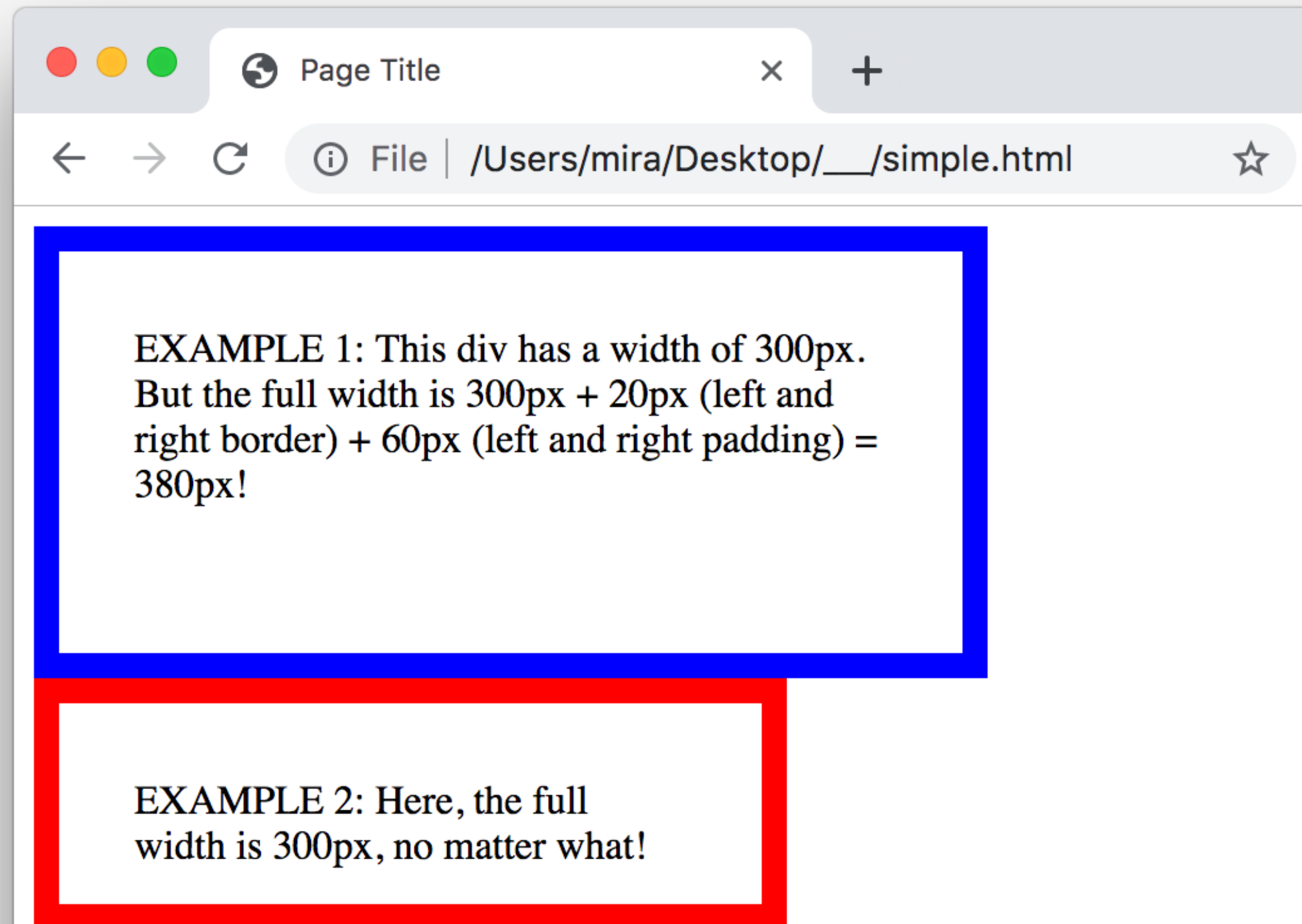
```
.example1 {  
  box-sizing: content-box;  
  width: 300px;  
  height: 100px;  
  padding: 30px;  
  border: 10px solid blue;  
}  
  
.example2 {  
  box-sizing: border-box;  
  width: 300px;  
  height: 100px;  
  padding: 30px;  
  border: 10px solid red;  
}
```

HTML

```
<div class="example1"> EXAMPLE 1:  
  This div has a width of 300px. But the  
  full width is 300px + 20px (left and  
  right border) + 60px (left and right  
  padding) = 380px!  
</div>  
  
<div class="example2"> EXAMPLE 2:  
  Here, the full width is 300px, no  
  matter what!  
</div>
```

MUST-HAVE: **BOX SIZING**

BROWSER



EXTRA RESOURCES

CSS-Tricks article [>>]

Demo of Box model [>>]

Box Sizing A [>>]

Box Sizing B [>>]

Example: Borders [>>]

Exercise: Margin, Padding & Border [>>]