

CSS Box Model

Web Technologies



Lecture by
Dr Elahe Kani-Zabihi

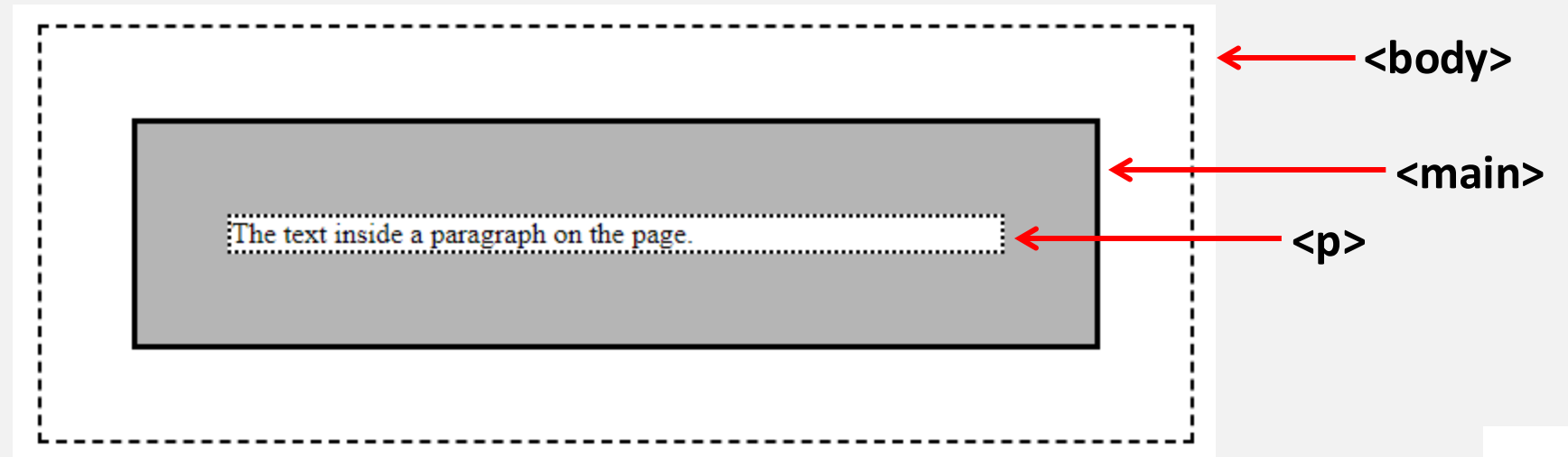
```
<!doctype html>
<html>
  <head>
    <title>
      Web Technologies
    </title>
    <style>
      p {
        color: ■ blue;
      }
    </style>
    <script>
      console.log("client-side");
    </script>
  </head>
  <body>
    <p>
      Welcome!
    </p>
  </body>
</html>
```


What we will cover

- **The CSS properties for CSS Box Model**
 - margin
 - padding
 - border

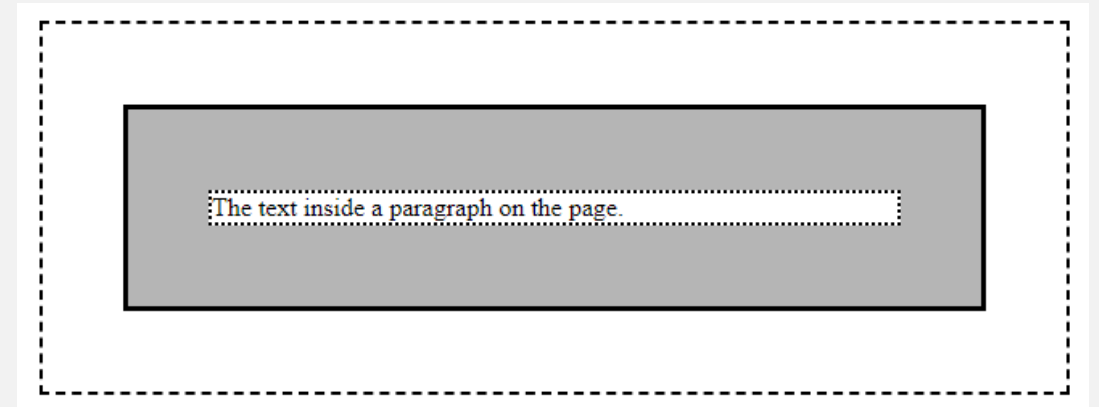
The HTML Code

```
<body>  
  <main>  
    <p>The text inside a paragraph on the page.</p>  
  </main>  
</body>
```

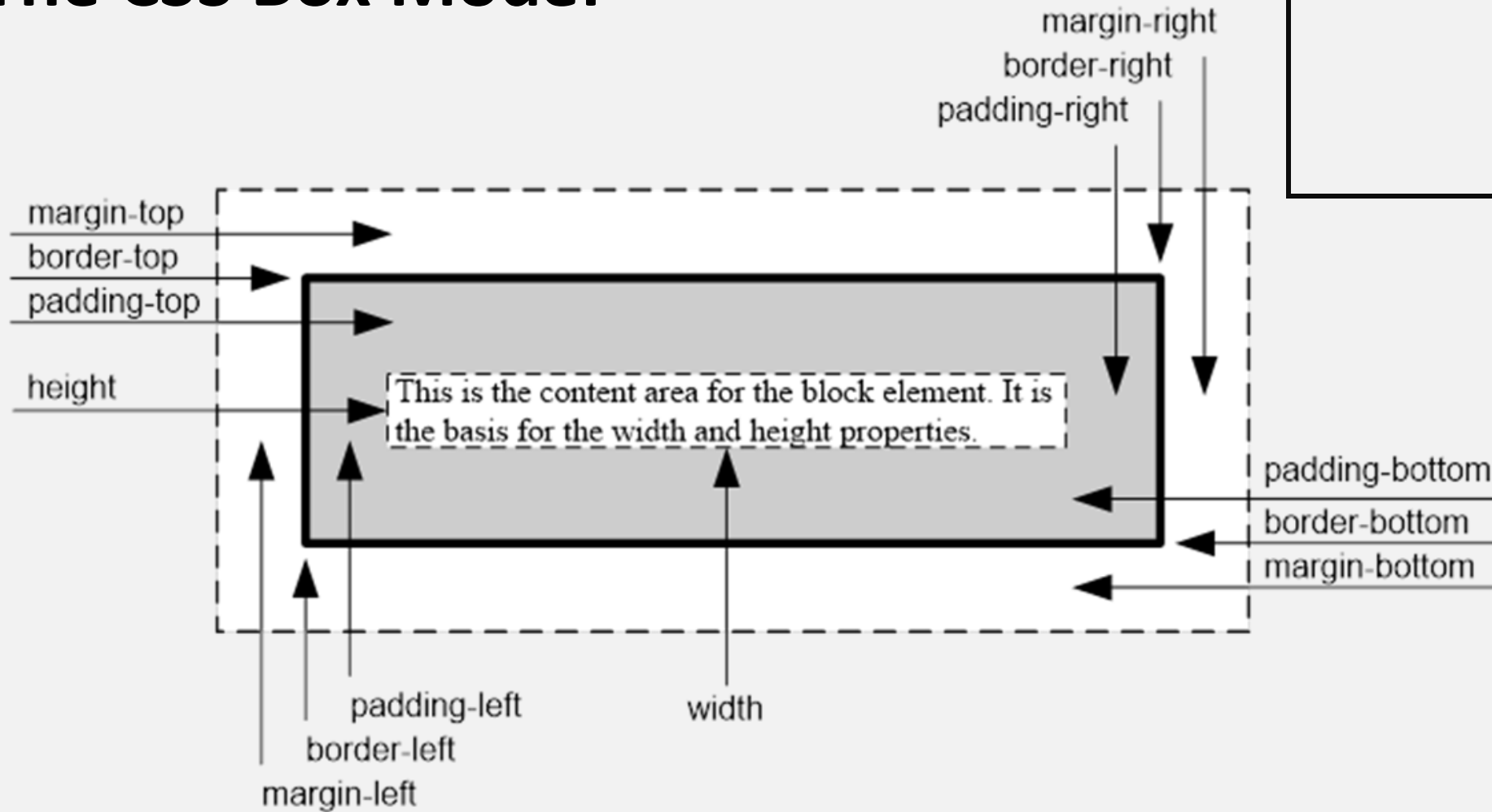


The CSS Code

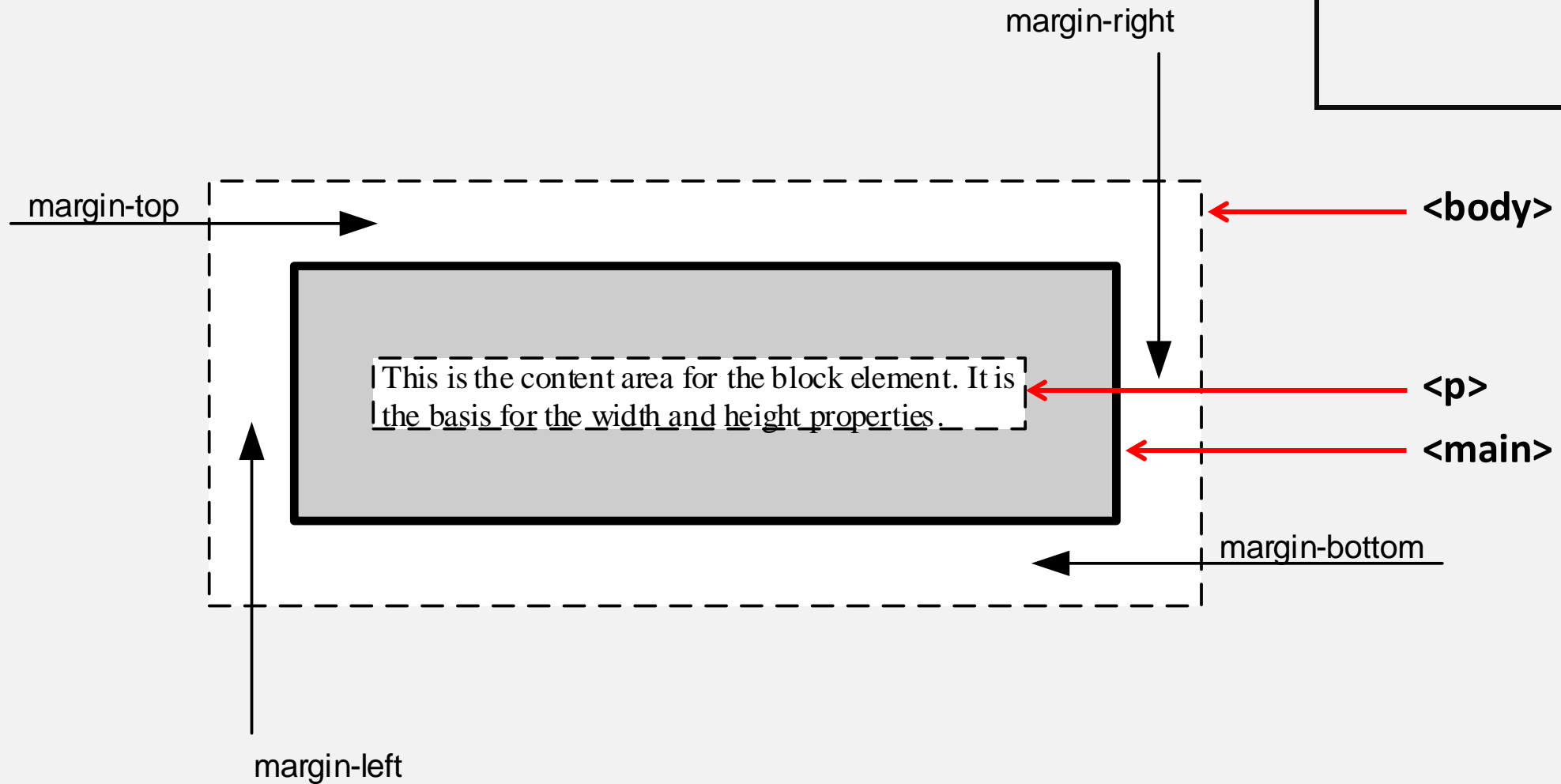
```
body {  
    border: 2px dashed;  
    margin: 50px;}  
main {  
    border: solid;  
    margin: 50px;  
    background-color: #B5B5B5; }  
p {  
    border: 2px dotted black;  
    margin: 50px;  
    background-color: white;  
}
```



The CSS Box Model



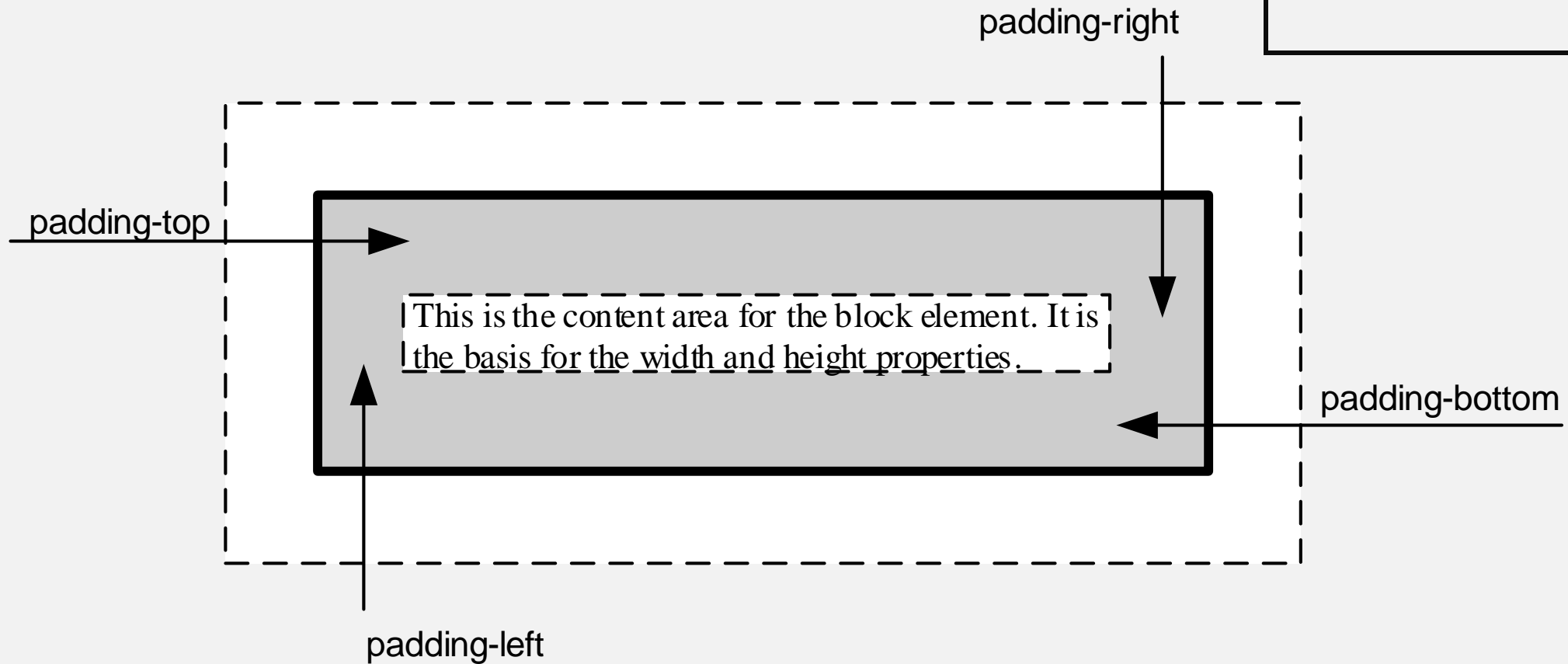
CSS Box Model - Margin



How to Set the Margin

- **The margin for a single side:**
 - `margin-top: .5em;`
 - `margin-left: 1em;`
 - `margin-bottom: 2em;`
 - `margin-right: .3em;`
- **The margin for multiple sides:**
 - `margin: 1em;`
 - `margin: 0 1em;`
 - `margin: .5em 1em 2em;`
 - `margin: .5em 1em 2em 1em;`

CSS Box Model - Padding



How to Set the Padding

- **The padding for a single side:**
 - padding-top: 0;
 - padding-left: 1em;
 - padding-bottom: .5em;
 - padding-right: 1em;
- **The margin for multiple sides:**
 - padding: 1em;
 - padding: 0 1em;
 - padding: 0 1em .5em;
 - padding: 0 1em .5em 1em;

Properties for Setting Borders

border

border-side

border-width

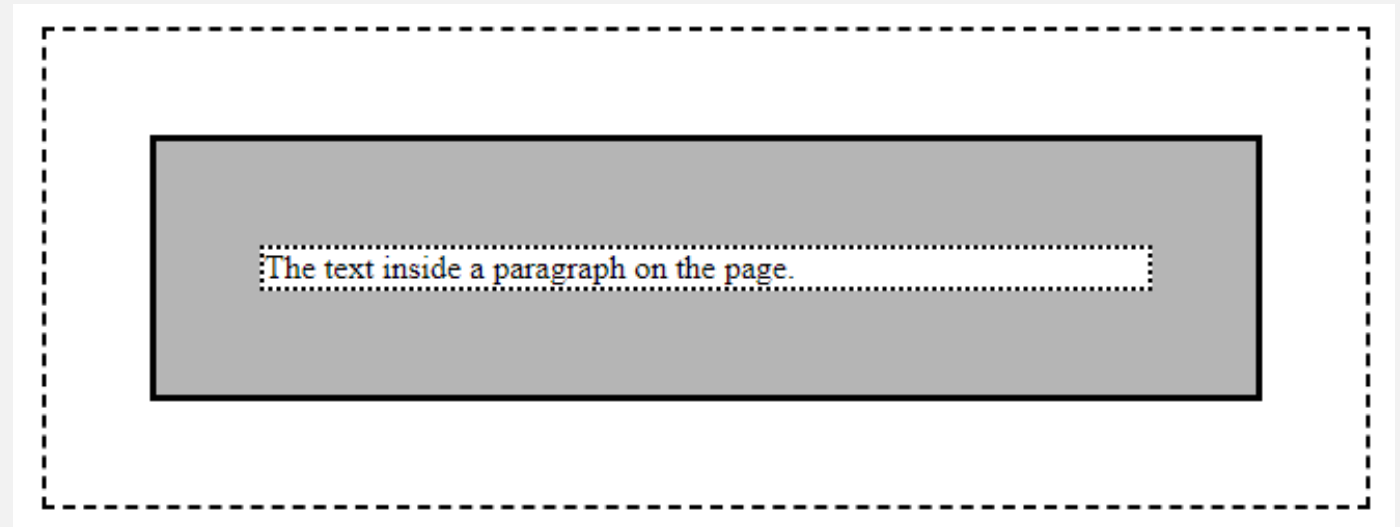
border-style

border-color

border-side-width

border-side-style

border-side-color



How to Set the Border

- **How to set border properties**
 - border: thin solid green;
 - border: 2px dashed #808080;
 - border: 1px inset;
- **How to set side borders**
 - border-top: 2px solid black;
 - border-right: 4px double blue;
 - border-left: 1px dotted red;
 - border-bottom: 3px outset yellow;

How to Set the Style of border

<p>The text inside a paragraph on the page.</p>

```
p {border-style: dashed;}
```

The text inside a paragraph on the page.

How to Set the Widths of Border

- `border-width: 1px;`
- `border-width: 1px 2px;`
- `border-width: 1px 2px 2px;`
- `border-width: 1px 2px 2px 3px;`

```
p {border-style: dashed; ← border-style must be used  
border-width: thick;}
```

Try It Yourself

In this activity you will practice how to use the Box Model properties. So:

1. Download the `box_model.html` file and open it in your browser
2. Inside the `<style>` element create CSS rule sets for `body`, `main`, and `p` by using the properties for each:
 - a) border and margin for `body`
 - b) border, margin and background-color for `main`
 - c) border, margin, background-color for `p`

Note - you can have the same values given in slide 4 or choose your own values.