ASU W. P. CAREY SCHOOL of BUSINESS
ARIZONA STATE UNIVERSITY

CIS 300
Web Design and Development

Chapter 6 | More CSS Basics

Learning Objectives

- Describe and apply the CSS Box Model
- Configure width and height with CSS
- Configure margin, border, and padding with CSS
- Center web page content with CSS
- Apply shadows with CSS3
- Configure rounded corners with CSS3
- Configure background images with CSS3
- Configure opacity, RGBA color, HSLA color and gradients with CSS3

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Configure Width and Height with CSS

- width property
  - Configures the width of an element's content

```
h1 { width: 80%; }
```

- min-width property
  - Configures minimum width of an element
- max-width property
  - Configures the maximum width of an element
- height property
  - Configures the height of an element

```
h1 { height: 100px; }
```

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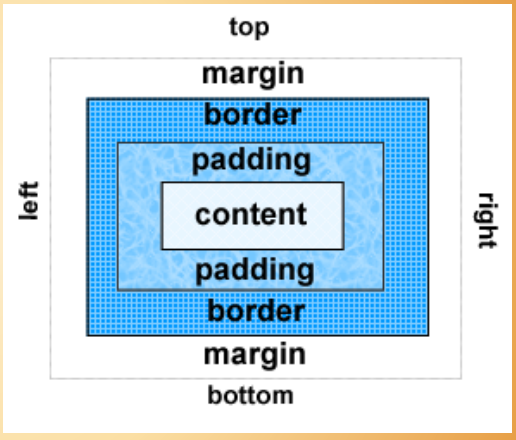
The Box Model

- Content
  - Text & web page elements in the container
- Padding
  - Area between the content and the border
- Border
  - Between the padding and the margin
- Margin
  - Determines the empty space between the element and adjacent elements



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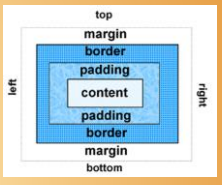
Configure Margin with CSS

- The margin property
- Related properties:
  - margin-top, margin-right, margin-left, margin-bottom
- Configures empty space between the element and adjacent elements



- Syntax examples

```
h1 { margin: 0; }
h1 { margin: 20px 10px; }
h1 { margin: 10px 30px 20px; }
h1 { margin: 20px 30px 0px 30px; }
```

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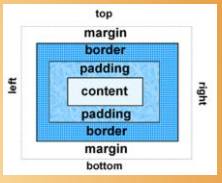
Configure Padding with CSS

- The padding property
- Related properties:
  - padding-top, padding-right, padding-left, padding-bottom
- Configures empty space between the content of the HTML element (such as text) and the border



- Syntax examples

```
h1 { padding: 0; }
h1 { padding : 20px 10px; }
h1 { padding : 10px 30px 20px; }
h1  {padding : 20px 30px 0px 30px; }
```

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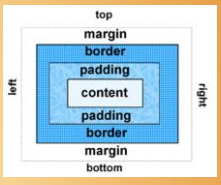
The CSS border Property

- Configures a border on the top, right, bottom, and left sides of an element



- Consists of
  - border-width
  - border-style
  - border-color

```
h2 { border: 2px solid #ff0000 }
```

Heading with Border

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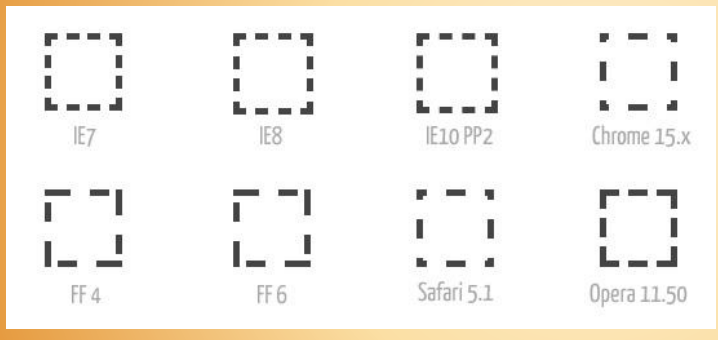
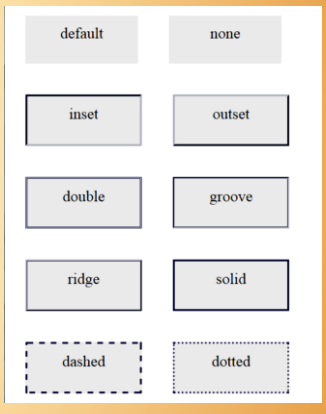
Valid border-style Values





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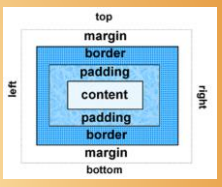
Configuring Specific Sides of a Border

- Use CSS to configure a line on one or more sides of an element
  - border-bottom
  - border-left
  - border-right
  - border-top




```
h2 { border-bottom: 2px solid #ff0000 }
```

Heading with Border

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CSS3 Rounded Corners

- border-radius property

```
h1 { border: 1px solid #000033;
     border-radius: 15px; }
```

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Centering Page Content with CSS


```
#container { margin-left: auto;
             margin-right: auto;
             width:80%; }
```

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CSS3 text-shadow Property

- Configure the horizontal offset, vertical offset, blur radius, and valid color value.
- Example:

```
#wrapper { text-shadow: 5px 5px 5px #828282;}
```

- Note: Optional keyword: inset

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CSS3 box-shadow Property

- Configure the horizontal offset, vertical offset, blur radius, and valid color value.
- Example:

```
#wrapper { box-shadow: 3px 3px 3px #666; }
```

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CSS3 Background Image Properties

- background-clip
  - Confines the display of the background image
- background-origin
  - Positions the background image relative to the content, padding or border
- background-size
  - Can be used to resize or scale the background image

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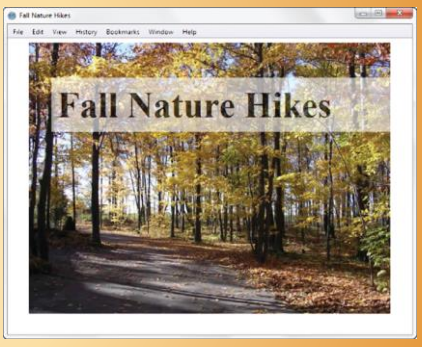
CSS3 opacity Property

- Configure the opacity of the background color
- Opacity range:
  - 0 Completely Transparent
  - 1 Completely Opaque horizontal offset, vertical offset, blur radius, and valid color value
- Example:

```
h1{ background-color: #FFFFFF;
    opacity: 0.6; }
```



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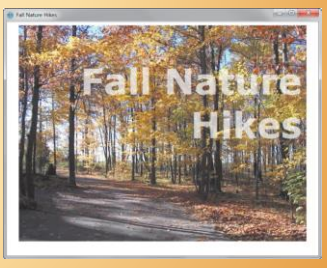
RGBA Color

- Four values are required:
  - red color, green color, blue color, and alpha(transparency)
    - The values for red, green, and blue must be decimal values from 0 to 255.
    - The alpha value must be a number between 0 (transparent) and 1 (opaque).
- Example:

```
h1 { color: #ffffff;
     color: rgba(255, 255, 255, 0.7);
     font-size: 5em; padding-right: 10px;
     text-align: right;
     font-family: Verdana, Helvetica, sans-serif;
}
```



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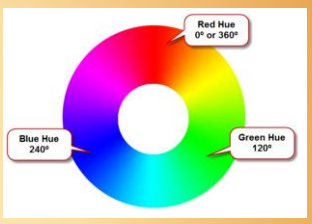
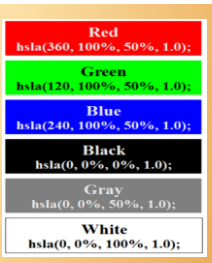
HSLA Color

- Hue, Saturation, Light, Alpha
  - Hue is a value between 0 and 360
  - Saturation: percent
  - Lightness: percent
  - Optional alpha: from 0 to 1





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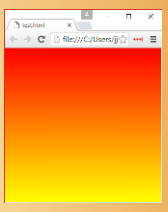
CSS3 Gradients

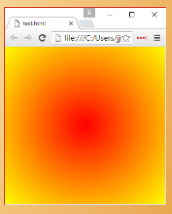
- Gradient: a smooth blending of shades from one color to another
- Use the background-image property
  - Linear Gradient
    - Example:

```
body { background-color: #8FA5CE;
       background: linear-gradient(red, yellow);
}
```



  - Radial Gradient
    - Example:

```
body { background-color: #8FA5CE;
       background-image: radial-gradient(red,
yellow);
}
```



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