### Introduction

* Review Quiz 5 and Project 5
* Discuss Project 6
* Q&A

### Day 1 Topics

**Midterm Exam**

* Take roll
* Open exam in Moodle at the beginning of class
* Close exam in Moodle at the end of class
* *Unless prior arrangements have been made, all students will take the exam in class.*

### Day 2 Topics

**Box Model**

* Content
  + Box models can contain other box models. Child/parent relationship
  + Data and code within the same box model are siblings
* Padding
  + Padding is like the foam peanuts inside a box from the post office
  + Padding protects the content inside the box model
  + Padding has 4 sides
* Border
  + The border is like the cardboard box of a package. Inside the cardboard box you have the padding and the content.
  + Border has 4 sides
* Margin
  + The margin is the distance outside the box model.
  + Like a fence that goes all the way around your house
  + Margin has 4 sides

**Border**

* Style - the line that goes around the box model
  + None|hidden|dotted|dashed|solid|double|groove|ridge|inset|outset
  + { border-top-style: solid; }
  + { border-right-style: none; }
  + { border-bottom-style: dotted; }
  + { border-left-style: double; }
  + Shorthand goes in a clockwise direction starting from the top
  + { border-style: solid none dotted double; }
  + { border-style: solid; } if all four sides are the same
* Width - how thick the line is that goes around the box model
  + Medium|thin|thick|length
  + { border-top-width: medium; }
  + { border-right-width: thin; }
  + { border-bottom-width: thick; }
  + { border-left-width: 10px; }
  + Shorthand goes in a clockwise direction starting from the top
  + { border-width: medium thin thick 10px; }
  + { border-width: 5px; } if all four sides are the same
* Color - the color of the line is that goes around the box model
  + Name, hexadecimal, RGB
  + { border-top-color: red; }
  + { border-right-color: lightblue; }
  + { border-bottom-color: #00ff00; }
  + { border-left-color: rgb(0,255,0); }
  + Shorthand goes in a clockwise direction starting from the top
  + { border-color: red lightblue #00ff00 rgb(0,255,0); }
  + { border-color: black; } if all four sides are the same

**Border Shorthand**

* You can set the border width, style, and color all at once
* Must be in that order
* Missing or omitted values are not recommended, and will have unattended results
  + { border: 5px dotted green; }

**Padding**

* The distance from the content to the border
  + { padding-top: 10px; }
  + { padding-right: 1.4em; }
  + { padding-bottom: 25%; }
  + { padding-left: .25cm; }
  + Shorthand goes in a clockwise direction starting from the top
  + { padding: 10px 1.4em 25% .25cm; }
  + { padding: 25px; } if all four sides are the same

**Margin**

* The distance from the border to the next box model, or other objects
  + { margin-top: 10px; }
  + { margin-right: 1.4em; }
  + { margin-bottom: 25%; }
  + { margin-left: .25cm; }
  + Shorthand goes in a clockwise direction starting from the top
  + { margin: 10px 1.4em 25% .25cm; }
  + { margin: 25px; } if all four sides are the same

**Padding & Margin Shorthand**

* One value - all sides
  + { padding: 10px; }
* Two values - top/bottom and left/right
  + { margin: 10px 5px; }
* Three values - top left/right bottom
  + { margin: 10px 5px 15px; }
* Four values - top right bottom left
  + { padding: 10px 5px 5px 10px; }

**Background Color**

* A DIV box is the parent and a P box is the child.
* If you set the background color to the parent, DIV to blue, then you will see blue
* If you set the background color to the child, P to yellow, then you will see yellow
* The child sit on top of the parent and that is why yellow is seen
* Colors do not blend like, blue and yellow make green.
* { background-color: lightblue; }