## CS3220 Web and Internet Programming More CSS

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#### More CSS Selectors

- Pseudo-class selectors
- Combined selectors

#### CSS Pseudo-Class ...

A CSS pseudo-class is a keyword preceded by a colon (:) that is added on to the end of selectors to specify that you want to style the selected elements only when they are in certain state

#### ... CSS Pseudo-Class

- Some pseudo-classes
  - : link, :visited, :hover, :active
  - :first-of-type, :last-of-type
  - :first-child, :last-child
- More at
  http://www.w3schools.com/css/css\_pse\_udo\_classes.asp

## **About Styling Links**

- Follow the LVHA order
- For privacy reasons, only certain properties can be used to style
  - :visited

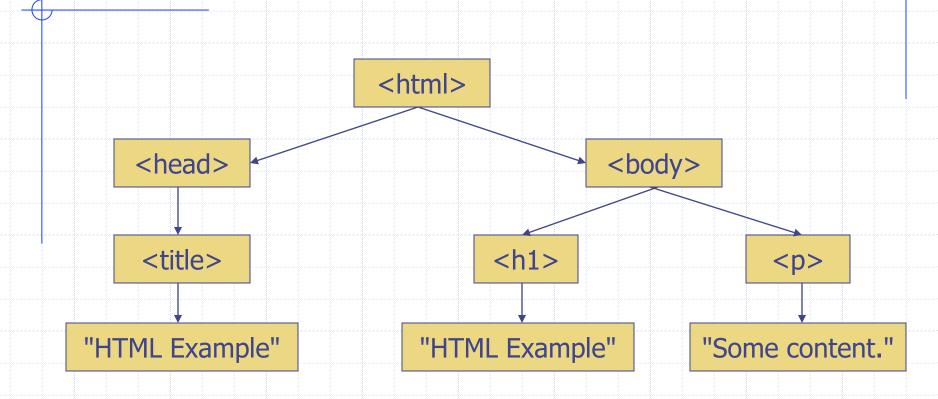
#### **Combine Selectors**

AB	Any element matching both A and B at the same time.
A,B	Any element that matches either A or B.
AB	Any element matching B that is a descendant of an element matching A.
A > B	Any element matching B that is a direct child of an element matching A.
A+B	Any element matching B that is the next sibling of an element matching A.
A~B	Any element matching B that is among the next siblings of an element matching A.

## Tree Structure of HTML Document ...

```
<html>
  <head>
    <title>HTML Example</title>
  </head>
  <body>
   <h1>HTML Example</h1>
    Some content.
  </body>
</html>
```

# ... Tree Structure of HTML Document



Common terminology: parent, child, sibling, ancestor, descendant

## Combined Selector Examples

```
#menul > a:link

#menul a:link

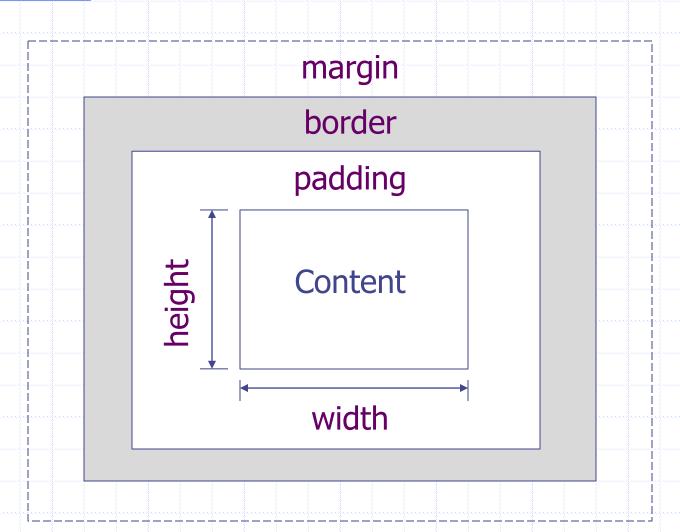
div + div {...}

div ~ div {...}
```

#### The CSS Box Model ...

Each element is represented as a rectangular box that consists of several layers: content, padding, border, and margin.

#### ... The CSS Box Model



### **Border Properties**

- ◆border-width
- ◆border-style
  - solid, dashed, dotted, double, and more
- ♦border-color
- ◆border [width] [style] [color]

#### **About CSS Units**

- ◆ Absolute units, e.g. px and pt
- Relative units, e.g. em
- ♦ Viewport percentage units, e.g. vh and
- More information at <a href="https://developer.mozilla.org/en-us/docs/Web/CSS/length">https://developer.mozilla.org/en-us/docs/Web/CSS/length</a>

#### border-<side> Properties

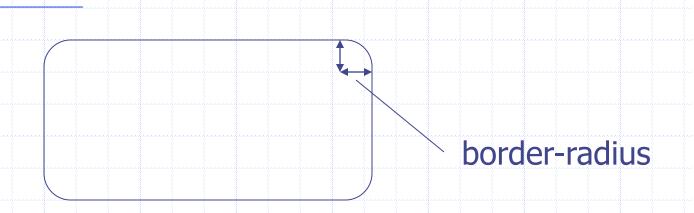
<side> can be top, bottom, left,
and right, e.g.

border-top-width: 1px;

border-bottom-color: red;

border-left: 1px solid black;

## Create Rounded Corner with border-radius



- Four corners can be controlled individually
- See more at <a href="http://www.w3schools.com/css/css3">http://www.w3schools.com/css/css3</a> borders.

#### **About Table Borders**

- The separated model (default) sets borders on individual cells
  - table {border-collapse: separate;}
  - Gap between cell borders; cannot set border on
- The collapsed model sets continuous borders from one end of the table to the other
  - table {border-collapse: collapse;}
  - No gap between cell borders; can set border on

## About Width and Height

- ◆ Can use absolute (e.g. px) or relative(e.g. %) values
- Default value is auto
- min-width, max-width, min-height, max-height
- Need to set display property to
  inline-block in order to set
  width/height for inline elements

## About Margin and Padding ...

- ◆ Can use absolute (e.g. px) or relative(e.g. %) values
- Set margin to auto usually centers an element
- The four sides of margin/padding can be set individually or all at once
  - top, bottom, right, left

# ... About Margin and Padding ...

Use of the margin and padding
property

```
margin/padding: <all>;
margin/padding: <top_and_bottom> <left_and_right>;
margin/padding: <top> <left_and_right> <bottom>;
margin/padding: <top> <right> <bottom> <left>;
margin-<side>/padding-<side>
```

## ... About Margin and Padding

Top and bottom margins of blocks are sometimes combined into a single margin whose size is the largest of the margins combined into it, i.e. margin collapsing

### Background Properties ...

- ◆background-color
- ◆background-image
  - Property value is a URL to the image, e.g. url ("img/background.gif")
- ♦background-repeat
  - repeat, repeat-x, repeat-y, no-repeat
- ◆background-position
  - left top, left center, left bottom, and so on

## ... Background Properties

- background-attachment
  - scroll (default), fixed
- background [color] [image]
  [repeat] [attachment]
  [position]