CSS

Making Layouts with CSS

Where does it go?

- CSS can be included in
 - The style attribute of an element
 - The <head> tag of a HTML document
 - An external file specified in the <head> tag
- → This order indicates the dominance scheme
 - Dominance absolutely applies only in certain cases

Things to know

- CSS rules applied by specificity
 - Selectors are not overridden simply by order
 - Most specific selector for an element's property wins
- Comments /* */
- Not every browser renders content the same

CSS

Basic Layout Properties

Layout & HTML

- By default, elements are rendered top to bottom, left to right
- Elements are divided into two layout categories
 - inline: width & height determined by contents
 - ex: <a>, , ,
 - block: height determined by contents; width extends to edge of parent container
 - ex: <div>, , , <h1>

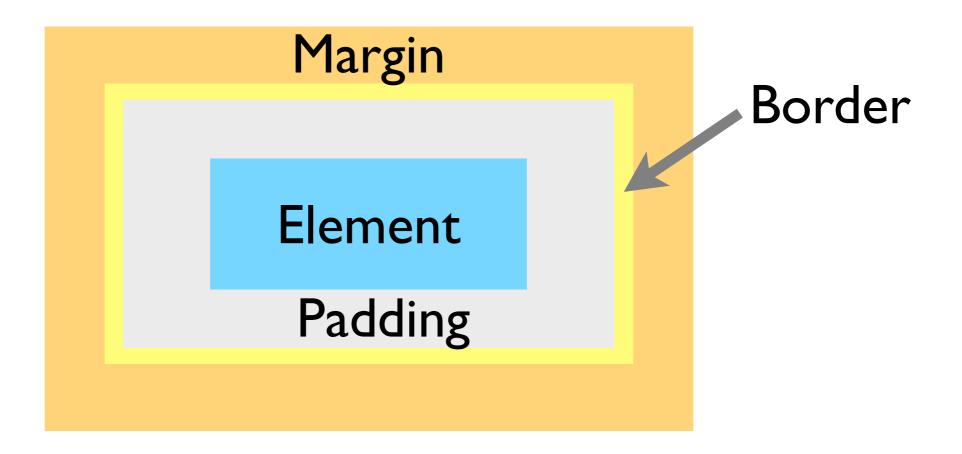
Layout & HTML

- Elements are rendered from L-to-R until a block is encountered
 - Blocks break flow of inline elements
 - ex:

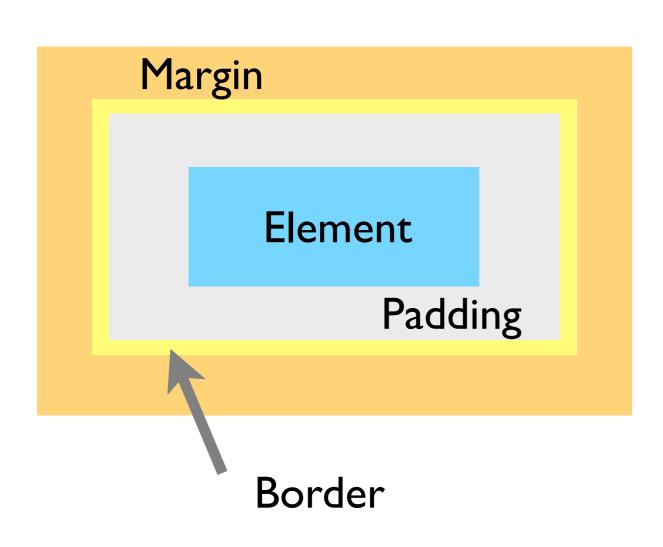
- CSS Box Model explains spacing between objects rendered according to this scheme

Layout: The Box Model

- Describes how layout properties alter rendering
- Well-illustrated in real-time with Firebug

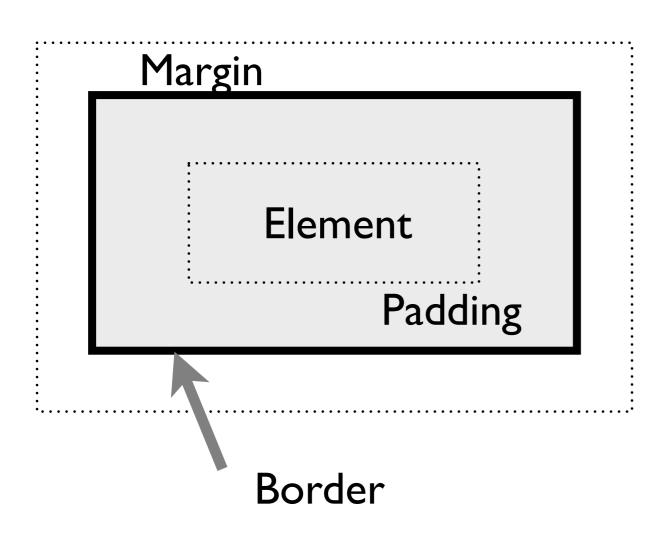


How to change attributes



- Element
 - width, height
- Padding
 - padding macro
- Border
 - border macros
- Margin
 - margin macro

How it's seen



- Background color extends to border
- Margin is invisible

About Macro Properties

- Macro properties take multiple values, separated by spaces
 - border: <border-width> <border-style> <border-color>
 - ex: border: 1px solid #000000;
 - Each constituent value corresponds to a property that can be set itself

CSS

Advanced Layout Properties

How?

- Standard layout model does not provide capabilities for side-by-side elements
 - × Use tables to layout page-- NO.
 - ✓ Use <div>s with creative CSS to layout page
 - → Maintains semantics of document
- It is recommended that you view this section of the slides interactively:

http://sipb.mit.edu/iap/webdesign/course_materials/lecture_2/floats.html

Using Floats

- What is it?
 - Any block element given
 - float: left; or float: right;
- Floats break from the normal layout flow
 - Rendered to either side of parent
 - Objects around them flow around it
 - ex: an inset figure in a paper

Using Floats

- Floated <div>s can be used to place block content side-by-side
 - Enables traditional layout schemes
- Elements floated to the same side are rendered in order
- ◆ To interrupt aligned layout (next "row"), use
 - clear: (left | right | both);

The Problem with Floats

- Usage is very common & valid, but feature was not designed for this purpose
 - → Unexpected behavior (padding & margin)
- Floats must be given an explicit width
- A non-floated element containing only a float has 0 height
 - → Floats (blocks) may also need a height