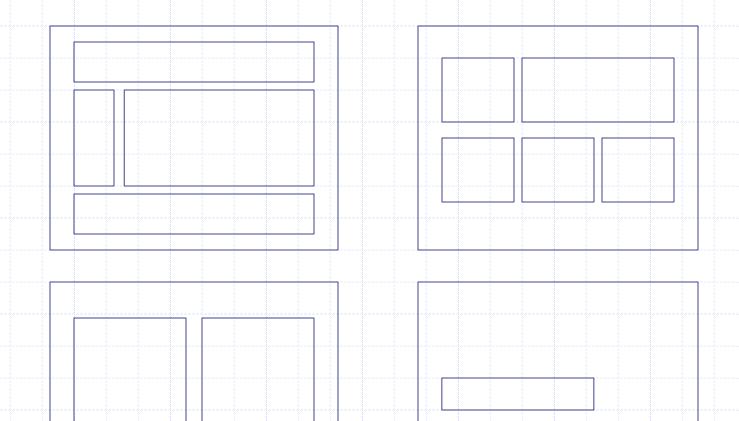
CS3220 Web and Internet Programming Page Layout with CSS

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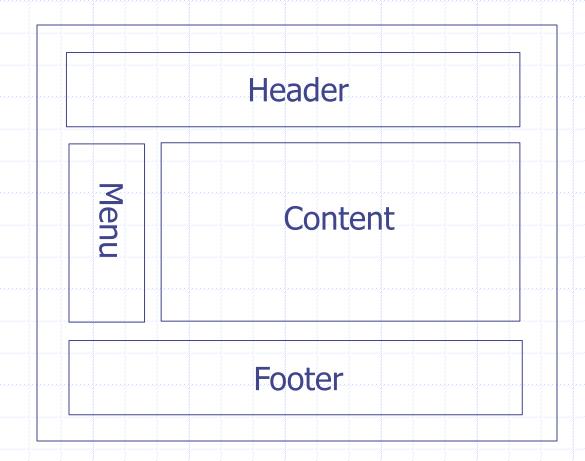
Some Page Layouts We May Want



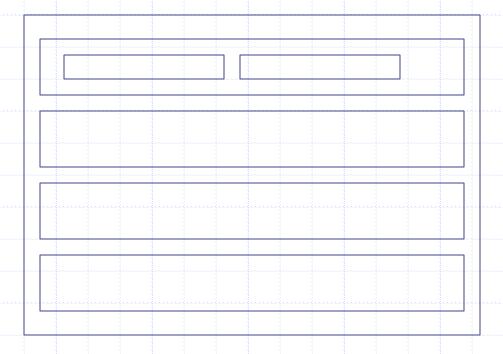
Using CSS Over Table for Layouts?

- Separation of structure and presentation
 - Better readability
 - Easier to change and maintain
- More flexible and powerful
- Accessibility support
- Better performance

Example



Regular HTML Page Layout



The elements "flows" from left to right and top to bottom

The float Property

- "Float" an element to either the left or the right inside the element that contains it
- A floated block element no longer take up the full width of the containing element
- A floated element is taken out of the normal flow
 - The elements below will be moved up and overlap with the floated element
 - The content of the element(s) overlapping with the floated element will wrap around it

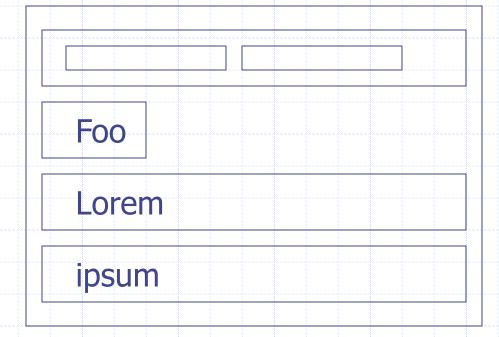
A float Example ...

Before float

Foo

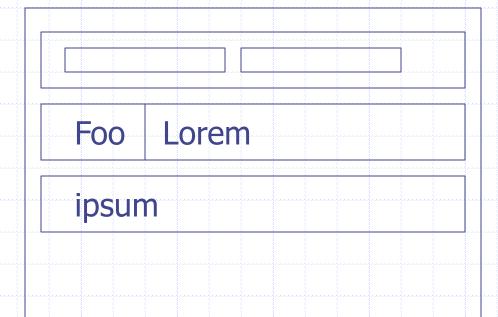
... A float Example ...

◆ Float "Foo" block to left – it only takes up the width needed by its content

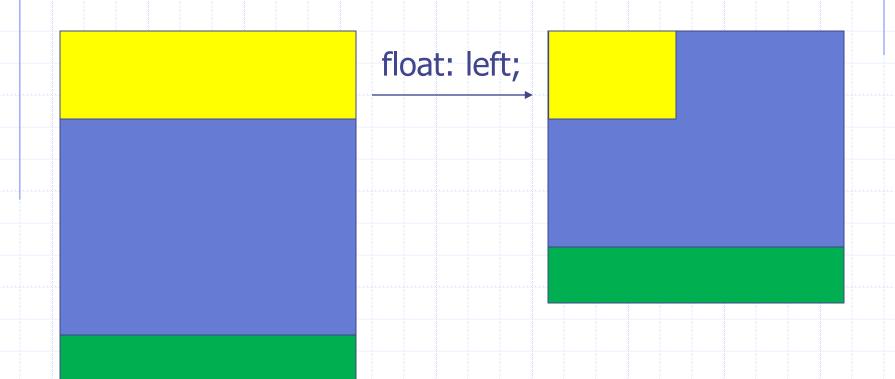


... A float Example ...

- "Lorem" and "ipsum" blocks are moved up
- "Lorem" block is overlapping with "Foo" block
- The content of "Lorem" block wraps around "Foo" block



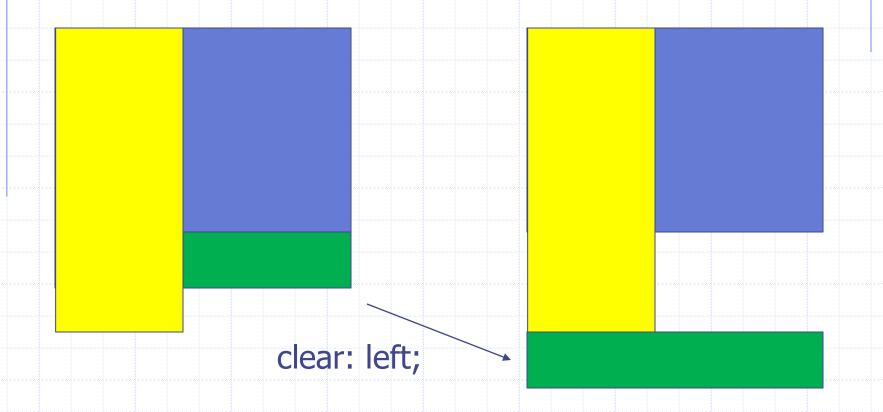
... A float Example



The clear Property

- Whether an element can be next to floating elements that precede it or must be moved down below them
 - left: no floating elements on the left
 - right: no floating elements on the right
 - both: no floating elements on either side

A clear Example



The Positional Properties ...

- position how an element is
 positioned
 - static: normal position
 - relative: relative to the normal position
 - absolute: relative to the containing block
 - fixed: relative to the browser window

The element is taken out of the normal flow

... The Positional Properties

- top, bottom, left, right the
 positions of the top, bottom, left, and
 right side of the element
- ◆z-index
 - An element with higher z-index is displayed in front of elements with lower z-index
 - Only works on positioned elements

CSS Layout Modes

- Block layout
 - float; multiple columns
- Inline layout
- ◆Table layout
- Positioned layout
- ◆ Flexible box (i.e. flexbox) layout
- Grid layout (experimental)

Multiple Columns Example

- Designed for displaying text not for creating multi-column layouts
- Properties
 - column-count
 - column-width (suggested optimal width)
 - column-gap
 - column-rule (can be set like borders)

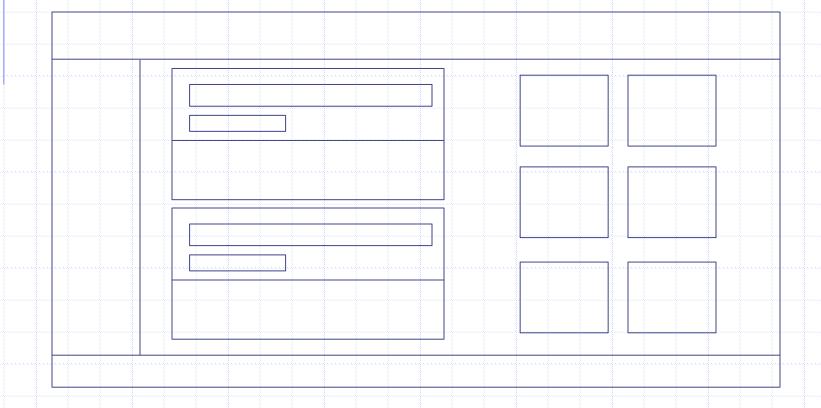
Flexbox Example

- display: flex;
- ♦ flex-direction
- ◆flex-wrap
- ◆align-items
- align-content and justifycontent

For more on flexbox, please see A Complete Guide to Flexbox.

Tip About Creating Complex Layouts

Start with the top-level blocks, then create "sub-layout" in each block



Complex Layout Example

