## Floating Elements

# The CSS float property (reference)

```
img.headericon {
float: right; width: 130px;
}
```

Ghostbusters is a 1984 American science fiction comedy film written by co-stars Dan Aykroyd and Harold Ramis about three eccentric New York City parapsychologists-turned-ghost capturers.

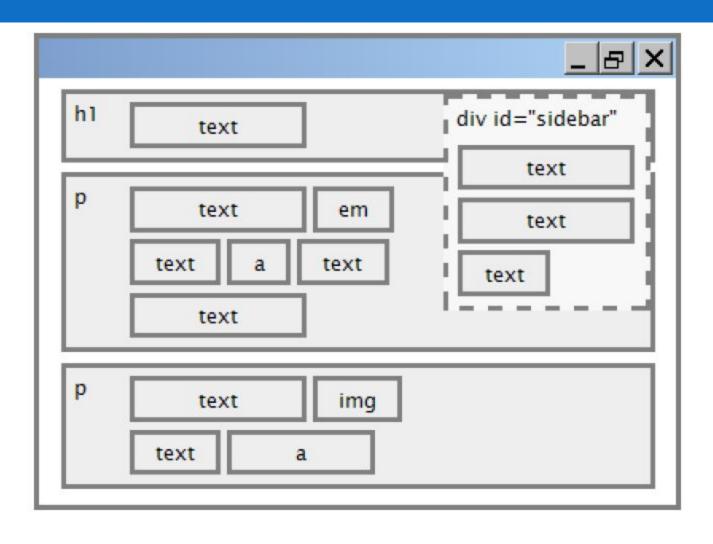


#### output

property	description
float	side to hover on; can be left, right, or none (default)

 removed from normal document flow; underlying text wraps around as necessary

## Floating elements diagram



#### Common float bug: missing width

I am not floating, no width

I am floating right, no width

I am not floating, 45% width

I am floating right, 45% width

- often floating block elements must have a width property value
- Let's try "floating"

#### The clear property

Mario is a fictional character in his video game series. Serving as Nintendo's mascot and the main protagonist of the series, Mario has appeared in over 200 video games since his creation



#### **Super Mario Fan Site!**

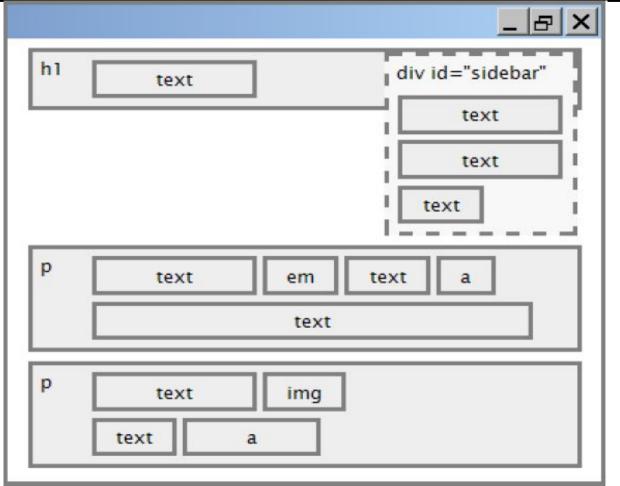
## The clear property (cont.)

property	description
clear	disallows floating elements
	from overlapping this element;
	can be left, right, or none
	(default)

## Clear diagram

```
div#sidebar { float: right; }
p { clear: right; }

CSS
```



#### Common error: container too short

```
<img src="images/mario.png" alt="super mario" />
Mario is a fictional character in his video game
series.....
HTML
```

Mario is a fictional character in his video game series. Serving as Nintendo's mascot and the main protagonist of the series, Mario has appeared in over 200 video games since his creation.



#### The overflow property

```
p { border: 2px dashed black;
overflow: hidden; }

CSS
```

Mario is a fictional character in his video game series. Serving as Nintendo's mascot and the main protagonist of the series, Mario has appeared in over 200 video games since his creation.



### The overflow property (cont.)

property	description
overflow	specifies what to do if an element's content is too large; can be auto, visible, hidden, or scroll

#### Multi-column layouts

Some other text that is important

third paragraph second paragraph first paragraph

output

## Sizing and Positioning

## The position property (examples)

```
div#ad {
    position: fixed;
    right: 10%;
    top: 45%;
}
```

property	value	description
position	static	default position
	relative	offset from its normal static position
	absolute	a fixed position within its containing element
	fixed	a fixed position within the browser window
top, bottom, left, right	positions of box's corners	

## Absolute positioning

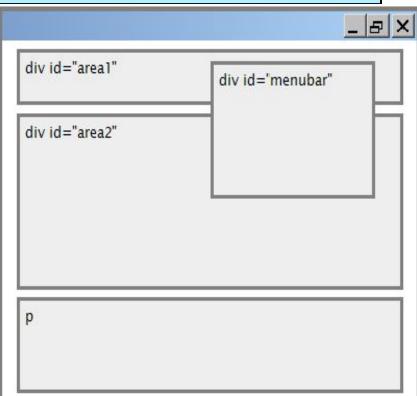
```
#sidebar {
position: absolute;
left: 400px;
top: 50px;
}

CSS
```

- removed from normal flow
- positioned relative to the block
   element containing them
- actual position determined by

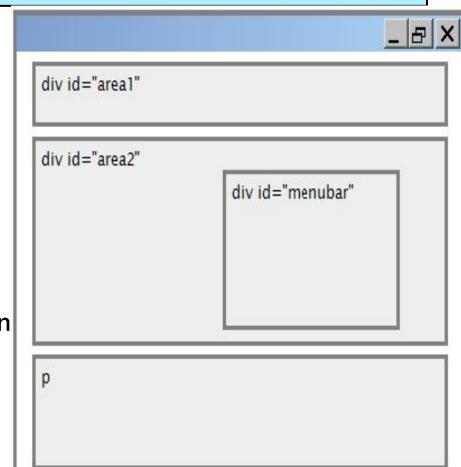
```
top, bottom, left, right
```

should often specify a widthproperty as well



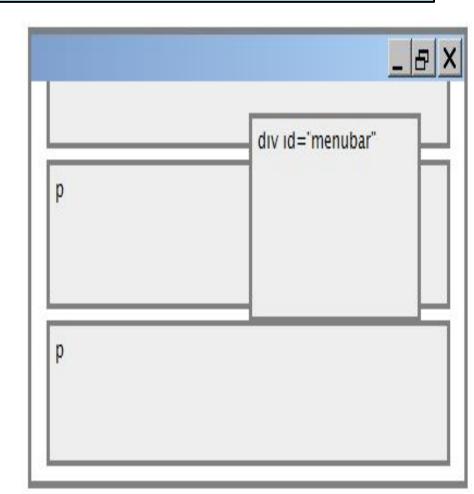
```
15
```

- absolute-positioned elements are normally positioned at an offset from the corner of the overall web page
- to make the absolute element to position itself relative to some other element's corner, wrap the absolute element in an element whose position is relative



```
16
```

- removed from normal flow
- positioned relative to the browser window even when the user scrolls the window, element will remain in the same place



#### Alignment vs. float vs. position

- If possible, lay out an element by aligning its content
  - horizontal alignment: text-align
    - set this on a block element; it aligns the content within it (not the block element itself)
  - vertical alignment: vertical-align
    - set this on an inline element, and it aligns it vertically within its containing element
- If alignment won't work, try floating the element
- 3. If floating won't work, try positioning the element
  - absolute/fixed positioning are a last resort and should not be overused

#### Details about inline boxes

- Size properties (width, height, min-width, etc.) are ignored for inline boxes
- margin-top and margin-bottom are ignored,
- but margin-left and margin-right are not ignored

#### Details about inline boxes

- the containing block box's text-align property controls horizontal position of inline boxes within it
  - text-align does not align block boxes within the page
- each inline box's vertical-align property aligns it vertically within its block box

### The vertical-align property

property	description
vertical-align	specifies where an inline element should be aligned vertically, with respect to other content on the same line within its block element's box

- can be top, middle, bottom, baseline (default), sub, super, text-top, text-bottom, or a length value or %
  - baseline means aligned with bottom of non-hanging letters

#### vertical-align example

```
<span style="vertical-align: top; border: 1px solid</pre>
red;">
   Don't be sad! Turn that frown
   <img src="images/sad.jpg" alt="sad" /> upside down!
   <imq style="vertical-align: bottom"</pre>
src="images/smiley.jpg" alt="smile" />
   Smiling burns calories, you know.
   <imq style="vertical-align: middle"</pre>
src="images/puppy.jpg" alt="puppy" /> Anyway, look at this
cute puppy; isn't he adorable! So cheer up, and have a
nice day. The End.
  </span>
HTML
```

# vertical-align example (cont.)



Don't be sad! Turn that frown

upside down!



Smiling burns calories, you

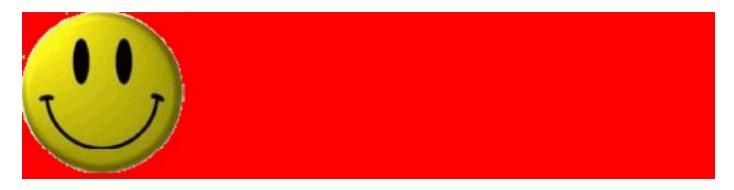


Anyway, look at this cute puppy; isn't he adorable! So cheer up, and have a nice

#### Common bug: space under image

```
<img src="images/smiley.png" alt="smile" />

HTML
```



- red space under the image, despite padding and margin of 0
- this is because the image is vertically aligned to the baseline of the paragraph (not the same as the bottom)
- setting vertical-align to bottom fixes the problem (so does setting line-height to Opx)

### The display property

```
h2 { display: inline; background-color: yellow; }
CSS
```

#### This is a heading This is another heading

property	description
display	sets the type of CSS box model an element is displayed with

- values: none, inline, block, run-in, compact, ...
- use sparingly, because it can radically alter the page layout

#### The display property (cont.)

```
p.secret {
    visibility: hidden;
}
```

- hidden elements will still take up space onscreen, but will not be shown
  - to make it not take up any space, set display to none instead
- can be used to show/hide dynamic HTML content on the page in response to events

#### The display property

```
     Item 1
     Item 2
     Item 3

HTML
```

```
#topmenu li {
display: inline;
border: 2px solid gray;
margin-right: 1em;
}
```



- lists and other block elements can be displayed inline
- flow left-to-right on same line
- width is determined by content