

# CSS LAYOUT

# The position Property

- The position property specifies the type of positioning method used for an element.
- There are four different position values:
  1. static
  2. relative
  3. fixed
  4. absolute
  5. sticky

# Static

- HTML elements are positioned static by default.
- Static positioned elements are not affected by the top, bottom, left, and right properties.
- An element with `position: static;` is not positioned in any special way; it is always positioned according to the normal flow of the page:

```
div.static {  
    position: static;  
    border: 3px solid #73AD21;  
}
```

# relative

- An element with `position: relative;` is positioned relative to its normal position.
- Setting the `top`, `right`, `bottom`, and `left` properties of a relatively-positioned element will cause it to be adjusted away from its normal position. Other content will not be adjusted to fit into any gap left by the element.

```
div.relative {  
    position: relative;  
    left: 30px;  
    border: 3px solid #73AD21;  
}
```

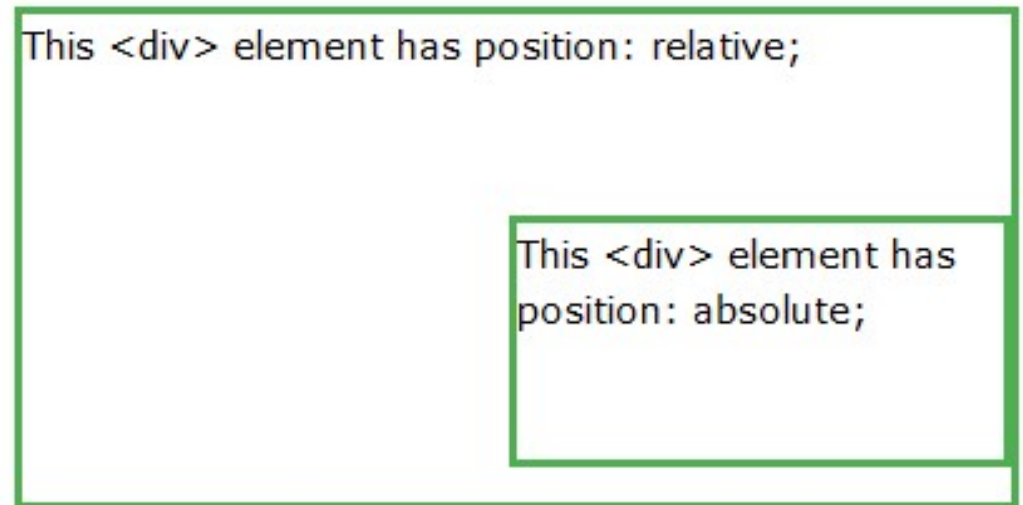
# fixed

- An element with `position: fixed;` is positioned relative to the viewport, which means it always stays in the same place even if the page is scrolled. The `top`, `right`, `bottom`, and `left` properties are used to position the element.

```
div.fixed {  
    position: fixed;  
    bottom: 0;  
    right: 0;  
    width: 300px;  
    border: 3px solid #73AD21;  
}
```

# absolute

- An element with position: absolute; is positioned relative to the nearest positioned ancestor (instead of positioned relative to the viewport, like fixed).
- However; if an absolute positioned element has no positioned ancestors, it uses the document body, and moves along with page scrolling.



# sticky

- An element with `position: sticky;` is positioned based on the user's scroll position.
- A sticky element toggles between relative and fixed, depending on the scroll position. It is positioned relative until a given offset position is met in the viewport - then it "sticks" in place (like `position: fixed`).

```
div.sticky {  
    position: -webkit-sticky;  
    position: sticky;  
    top: 0;  
    background-color: green;  
    border: 2px solid #4CAF50;  
}
```

# Overlapping Elements

- The z-index property specifies the stack order of an element.
- An element with greater stack order is always in front of an element with a lower stack order.



# CSS Layout - inline-block

- It has been possible for a long time to create a grid of boxes that fills the browser width and wraps nicely (when the browser is resized), by using the float property.
- However, the inline-block value of the display property makes this even easier.
- inline-block elements are like inline elements but they can have a width and a height.

# The old way - using float

```
.floating-box {  
    float: left;  
    width: 150px;  
    height: 75px;  
    margin: 10px;  
    border: 3px solid #73AD21;  
}
```

```
.after-box {  
    clear: left;  
}
```

---

The same effect can be achieved by using the inline-block value of the display property (notice that no clear property is needed):

```
.floating-box {  
    display: inline-block;  
    width: 150px;  
    height: 75px;  
    margin: 10px;  
    border: 3px solid #73AD21;  
}
```

---

# CSS Liquid Layout

```
body {  
  background-color:#ffffff;}  
  
div#page {  
  width:80%;  
  padding:10%;  
  background-color:#ffffff;  
  border:1px solid #000000;  
  font-family:arial, verdana, sans-serif;  
  font-size:12px;  
}
```

```
<body>  
  <div id="page">  
  
    <h1>Sample Web Page</h1>  
    <p>Lorem ipsum dolor sit amet,  
    consectetuer adipiscing elit. </p>  
  
  </div>
```

# CSS max-width

```
body {  
  background-color:#efefef;}  
  
div#page {  
  max-width:880px;  
  padding:20px;  
  margin:20px;  
  margin-left:auto;  
  margin-right:auto;  
  background-color:#ffffff;  
  border:1px solid #000000;  
  font-family:arial, verdana, sans-serif;  
  font-size:12px;  
}
```

```
<body>  
  <div id="page">  
  
    <h1>Sample Web Page</h1>  
    <p>Lorem ipsum dolor sit amet,  
    consectetuer adipiscing elit. </p>  
  
  </div>
```

# CSS image grid

```
body {
  background-color:#383838;
  margin:0px;
  padding:0px;}
h1 {
  padding : 5%;
  margin:0px;}

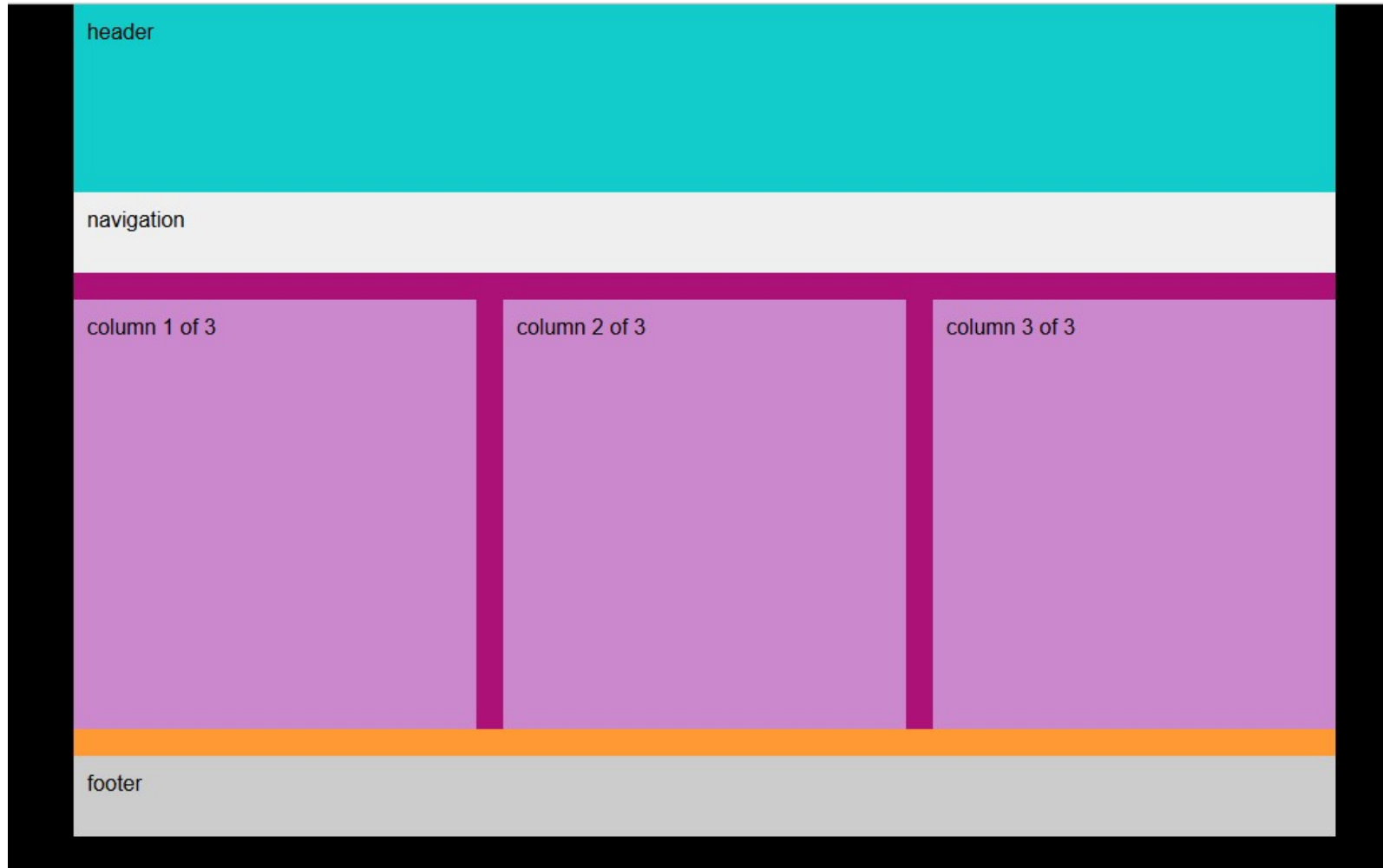
#frame {
  width:960px;
  margin-left:auto;
  margin-right:auto;
  background-image:url("../images/960px_12_col_grid.gif");
  background-repeat:repeat-y;}

#page {
  width:940px;
  margin-left:auto;
  margin-right:auto;}
```

```
<body>
<div id="frame">
  <div id="page">
    <h1>Testing the background grid</h1>

    </div>
  </div>
</body>
```

# Sample column layout



# Sample column layout (2)





# Sample column layout (3)

