## Web Engineering

# Lecture 19 Webpage Layout

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### **CSS Layout Float**

In this example, we have created a header, two columns/boxes and a footer. On smaller screens, the columns will stack on top of each other.

Resize the browser window to see the responsive effect (you will learn more about this in our next chapter - HTML Responsive.)

### **Cities**

London Paris Tokyo

#### London

London is the capital city of England. It is the most populous city in the United Kingdom, with a metropolitan area of over 13 million inhabitants.

Standing on the River Thames, London has been a major settlement for two millennia, its history going back to its founding by the Romans, who named it Londinium.

```
<!DOCTYPE html>
<html lang="en">
<head>
<title>CSS Template</title>
<meta charset="utf-8">
<meta name="viewport" content="width=device-width, initial-scale=1">
<style>
* {
 box-sizing: border-box;
body {
 font-family: Arial, Helvetica, sans-serif;
/* Style the header */
header {
  background-color: #666;
  padding: 30px;
  text-align: center;
 font-size: 35px;
 color: white;
/* Create two columns/boxes that floats next to each other */
nav {
 float: left:
 width: 30%;
  height: 300px; /* only for demonstration, should be removed */
  background: #ccc;
  padding: 20px;
/* Style the list inside the menu */
nav ul {
  list-style-type: none;
  padding: 0;
```

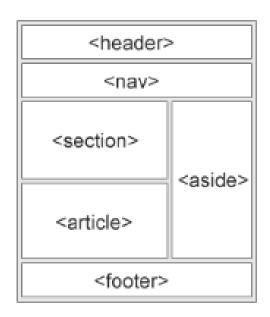
```
article {
 float: left;
  padding: 20px;
  width: 70%;
  background-color: #f1f1f1;
  height: 300px; /* only for demonstration, should be removed */
/* Clear floats after the columns */
section:after {
 content: "";
 display: table;
 clear: both;
/* Style the footer */
footer {
 background-color: #777;
 padding: 10px;
 text-align: center;
  color: white;
/* Responsive layout - makes the two columns/boxes stack on top of each other instead of next to each
other, on small screens */
@media (max-width: 600px) {
 nav, article {
   width: 100%;
   height: auto;
</style>
</head>
```

```
<body>
<h2>CSS Layout Float</h2>
In this example, we have created a header, two columns/boxes and a footer. On smaller screens, the
columns will stack on top of each other.
Resize the browser window to see the responsive effect (you will learn more about this in our next)
chapter - HTML Responsive.)
<header>
 <h2>Cities</h2>
</header>
<section>
  <nav>
   culs.
     <a href="#">London</a>
     <a href="#">Paris</a>
     <a href="#">Tokyo</a>
   </nav>
  <article>
   <h1>London</h1>
   London is the capital city of England. It is the most populous city in the United Kingdom, with
a metropolitan area of over 13 million inhabitants.
   Standing on the River Thames, London has been a major settlement for two millennia, its history
going back to its founding by the Romans, who named it Londinium.
  </article>
</section>
<footer>
  Footer
</footer>
</body>
</html>
```

### HTML Layout Elements

Websites often display content in multiple columns (like a magazine or newspaper).

HTML5 offers new semantic elements that define the different parts of a web page:



- <header> Defines a header for a document or a section.
- <nav> Defines a container for navigation links
- <section> Defines a section in a document.
- <article> Defines an independent self-contained article
- <aside> Defines content aside from the content (like a sidebar)
- <footer> Defines a footer for a document or a section
- <details> Defines additional details
- <summary> Defines a heading for the <details> element

### HTML Layout Techniques

There are five different ways to create multicolumn layouts. Each way has its pros and cons:

- HTML tables (not recommended)
- CSS float property
- CSS flexbox
- CSS framework
- CSS grid

#### **CSS Floats**

It is common to do entire web layouts using the CSS float property. Float is easy to learn - you just need to remember how the float and clear properties work.

Disadvantages: Floating elements are tied to the document flow, which may harm the flexibility.

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