

Chapter 1

Introduction to HTML (cont)



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New Doctype

- `<!DOCTYPE html>`
- Works now in all browsers for “standards mode” start using it!
- https://www.w3schools.com/tags/tag_doctype.asp



THE EVOLUTION OF HTML

HTML 4
1997

Had some
presentational
elements

XHTML
2000

Written in XML

Presentational
elements removed

HTML5
Work In Progress

Can be used today

- - Recent versions:
- - HTML 4.0 – 1997
- - HTML 4.01 - 1999 - A cleanup of 4.0
- - XHTML 1.0 - 2000
 - - Just 4.01 defined using XML, instead of SGML
- - XHTML 1.1 – 2001
 - - Modularized 1.0, and drops frames
- - W3C worked on XHTML 2.0; WHAT worked on a new version of HTML
- - In 2009, XHTML 2.0 was stopped; W3C took over development of HTML5

Basis of Comparison	XHTML	HTML5
Case Sensitivity	Case sensitive	Not case sensitive
Developed by	World Wide Web Consortium (W3C)	Collaboration between Web Hypertext Application Technology Working Group (WHATWG) and the World Wide Web Consortium (W3C).
Syntax	<p>While writing code for XHTML, consider the following:</p> <ul style="list-style-type: none"> • Tags must be nested properly. • All XHTML attributes and tags should be in lower case. • All XHTML documents should start with the DOCTYPE declaration. • The user must replace a name attribute with an id attribute. • Disapprove the language attribute of the script tag. 	<p>HTML5 provides:</p> <ul style="list-style-type: none"> • Uppercase tag names • Attribute values are optional • Closure of empty elements is optional • Quotes are optional for attributes. • Provides tags like: <ul style="list-style-type: none"> ◦ <script> ◦ <link> • Document tags like: <ul style="list-style-type: none"> ◦ Figure ◦ Nav ◦ Article

Content Elements

`<header>`

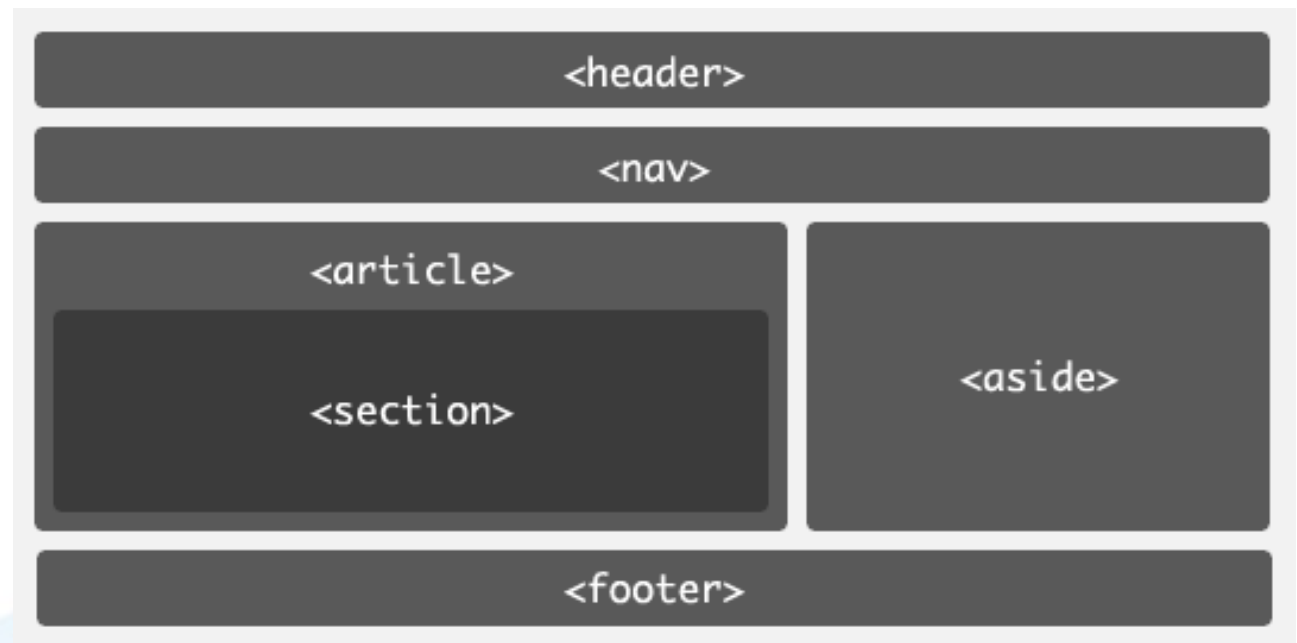
`<nav>`

`<article>`

`<aside>`

`<section>`

`<footer>`



`<summary>`

`<details>`

iPad Case

The iPad Case not only protects your iPad, it also holds iPad in the perfect positions for typing, viewing slideshows, and watching movies.

[Learn more](#)

With a soft microfiber interior and reinforced panels to provide structure, the iPad Case is the perfect way to carry around your iPad. Slide it in, close the flap, and slip it into your bag or backpack so you can take it anywhere.

Audio and Video

■ Native Audio Element

```
<audio>  
  <source src="music.oga" type="audio/ogg">  
  <source src="music.mp3" type="audio/mpeg">  
</audio>
```

■ Native Video Element

```
<video src="video.ogv" controls poster="poster.jpg"  
  width="320" height="240">  
  <a href="video.ogv">Download movie</a>  
</video>
```

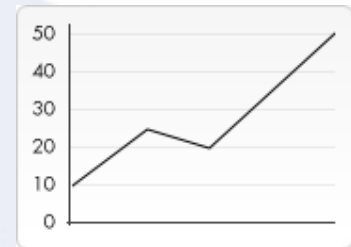
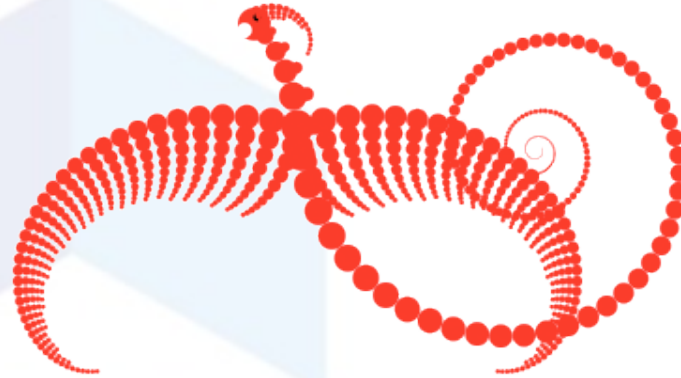
Audio and Video

- Making your own video controls

```
<video src="video.ogg" id="video"></video>
<script>
    var video = document.getElementById("video");
</script>
<p>
    <button onclick="video.play();">Play</button>
    <button onclick="video.pause();">Pause</button>
    <button onclick="video.currentTime = 0;">Rewind</button>
</p>
```


Canvas - 2d Drawing

```
function draw() {  
    var ctx = document.getElementById('canvas').getContext('2d');  
    var img = new Image();  
    img.onload = function(){  
        ctx.drawImage(img,0,0);  
        ctx.beginPath();  
        ctx.moveTo(30,96);  
        ctx.lineTo(70,66);  
        ctx.lineTo(103,76);  
        ctx.lineTo(170,15);  
        ctx.stroke();  
    }  
    img.src = 'images/backdrop.png';  
}
```



New Form Elements

■ New Input Types

`tel, search, url, email, datetime, date, month, week, time, datetime-local, number, range, color`

■ New Elements

`<datalist>`

`<meter>`

`<progress>`

`<output>`



Iframes

```
<iframe width="450" height="350"
  src="http://maps.google.co.uk/maps?
    q=moma+new+york&output=embed"
  frameborder="0"
  scrolling="0">
</iframe>
```



META TAGS

```
<head>
  <title>Essay</title>
  <meta name="description" content="installation art">
  <meta name="keywords" content="essay, installation art">
  <meta http-equiv="author" content="Brian Iris">
  <meta charset="utf-8">
  <meta name="generator" content="Notepad++">
  <meta name="author" content="Brian Iris">
  <meta name="copyright" content="Brian Iris 2009">

  <meta name="expires" content="13 March 2021">
  <meta http-equiv="refresh" content="5; url=newurl.html">

  <meta name="robots" content="all">

</head>
```