

# Web Development with JavaScript and AJAX

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# Web Development with JavaScript and AJAX

- Who am I?
  - Huw Davies
  - Web programmer for over 10 years

# Web Development with JavaScript and AJAX

- Class members:
  - Name
  - Knowledge on a scale of 1 to 5 of:
    - HTML
    - CSS
    - PHP
    - MySQL
    - JavaScript
  - Any special requirements I should know about

# Web Development with JavaScript and AJAX

- HTML : structure
- CSS : presentation
- PHP : server-side behaviour
- MySQL : persistence
- JavaScript : client-side behaviour

# Web Development with JavaScript and AJAX

- JavaScript
  - Client side (browser) programming language
  - Contained in `<script>` tags in a web page's HTML or (less commonly) inline
  - Very limited features for security reasons
    - Cannot access hardware like hard disks, for example
    - Doesn't mean it can't be dangerous
  - Used to manage the behaviour of a web page
    - By making changes via the Document Object Model

# Web Development with JavaScript and AJAX

- JavaScript is:
  - Object based
  - Event-driven
    - `<h1 onmouseover="alert( 'Test' );">Test</h1>`
    - example-1.html

# Web Development with JavaScript and AJAX

- The Document Object Model (DOM)
  - Allows developers to access individual or groups of elements and manipulate their properties
  - Main access methods:
    - `document.getElementById('id-string')`
      - Gets a single element
    - `document.getElementsByTagName('element-name')`
      - Gets an ARRAY of elements with that tag name (e.g. 'body')
- Add an index in square brackets to get a particular

# Web Development with JavaScript and AJAX

CSS	DOM
font-size	fontSize
color	color
background-color	backgroundColor



# Web Development with JavaScript and AJAX

- JavaScript example
  - Open a suitable editor:
    - Notepad
    - TextPad
    - DreamWeaver
    - Aptana
    - NetBeans
    - Etc
  - Create a file (example-2.html)
  - Run it and make sure it works