

Responsive Web design with HTML5, CSS3 & jQuery

Duration: 2 days

This course is aimed at developers and designers who want to learn cutting-edge techniques for designing and building webpages. The course concentrates on using semantic markup in HTML5, and on techniques for building responsive pages that configure themselves automatically depending on screen size. You'll also learn how to incorporate jQuery plugins for animation and navigation (no programming required).

HTML5 markup

- Planning a document structure.
- When to use sections, articles, headers, footers and nav elements.
- The Video element.
- When to use div tags.
- How hierarchical headings work within HTML5.
- Generating a document outline.
- Forms in HTML5 - new form elements and controls, form validation.
- Working with Microdata.

Cross-browser compatibility

- Ensuring that HTML5 works in Internet Explorer and older browsers.
- HTML5 'reset' styles.
- Using Modernizr for feature detection.
- Ensuring fallbacks for less able browsers.
- Conditional styles for Internet Explorer.

Working with jQuery

- Downloading and installing jQuery.
- Using jQuery plugins for animated scroll effects and responsive navigation.
- Initialising jQuery plugins.

CSS3

- RGBA/HSLA colour and opacity.
- Web fonts.
- Rounded corners.
- Transitions.
- Transforms.
- Shadows.
- Gradients.
- Resizable backgrounds.
- Box-sizing.
- CSS3 selectors.

Responsive design

- Strategies for responsive design.
- Working with CSS3 Media Queries.
- Building a page 'from mobile up'.
- Allowing images to resize.
- Hiding elements on smaller devices.
- Setting a maximum page width.
- Setting up a column grid.
- Clearing floats.
- High resolution images for retina devices.
- Converting a single column layout to multiple columns.