***CSS 3, RWD with Media Queries & Grid Layouts (Intro)***

***Duration: 1 day***

***Prerequisite : good knowledge of CSS 2.1***

***Please Strike off topics not required:***

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***INTRODUCING CSS3***

***What CSS3 Is and How It Came to Be***

***A Brief History of CSS3***

***CSS3 Is Modular***

***Module Status and the Recommendation Process***

***CSS3 Is Not HTML5***

***Let’s Get Started: Introducing the Syntax***

***Browser-Specific Prefixes***

***Future-Proofing Experimental CSS***

***Getting Started***

***SELECTORS***

***Attribute Selectors***

***New Attribute Selectors in CSS3***

***Beginning Substring Attribute Value Selector***

***Ending Substring Attribute Value Selector***

***Arbitrary Substring Attribute Value Selector***

***Multiple Attribute Selectors***

***The General Sibling Combinator***

***Selectors: Browser Support***

***PSEUDO-CLASSES AND PSEUDO-ELEMENTS***

***Structural Pseudo-classes***

***The nth-\* Pseudo-classes***

***first-of-type, last-child, and last-of-type***

***only-child and only-of-type***

***Other Pseudo-classes***

***target***

***empty***

***root***

***not***

***UI Element States***

***Pseudo-elements***

***The selection pseudo-element***

***DOM and Attribute Selectors: Browser Support***

***WEB FONTS***

***The @font-face Rule***

***Defining Different Faces***

***True vs Artificial Font Faces***

***A “Bulletproof” @font-face Syntax***

***Using Local Fonts***

***Font Formats***

***The Final “Bulletproof” Syntax***

***The Fontspring Bulletproof Syntax***

***Licensing Fonts for Web Use***

***A Real-World Web Fonts Example***

***More Font Properties***

***font-size-adjust***

***font-stretch***

***OpenType Features***

***Web Fonts: Browser Support***

***TEXT EFFECTS AND TYPOGRAPHIC STYLES***

***Understanding Axes and Coordinates***

***Applying Dimensional Effects: text-shadow***

***Multiple Shadows***

***Letterpress Effect***

***Adding Definition to Text: text-outline and text-stroke***

***More Text Properties***

***Restricting Overflow***

***Resizing Elements***

***Aligning Text***

***Wrapping Text***

***Setting Text Rendering Options***

***Applying Punctuation Properties***

***Text Effects: Browser Support***

***MULTIPLE COLUMNS***

***Column Layout Methods***

***Prescriptive Columns: column-count***

***Dynamic Columns: column-width***

***A Note on Readability***

***Different Distribution Methods in Firefox and WebKit***

***Combining column-count and column-width***

***Column Gaps and Rules***

***Containing Elements within Columns***

***Elements Spanning Multiple Columns***

***Elements Breaking over Multiple Columns***

***Multiple Columns: Browser Support***

***BACKGROUND IMAGES AND OTHER DECORATIVE***

***PROPERTIES***

***Background Images***

***Multiple Background Images***

***Background Size***

***Background Clip and Origin***

***background-repeat***

***Background Image Clipping***

***Image Masks***

***Background Images: Browser Support***

***BORDER AND BOX EFFECTS***

***Giving Your Borders Rounded Corners***

***border-radius Shorthand***

***Differences in Implementation Across Browsers***

***Using Images for Borders***

***Multicolored Borders***

***Adding Drop Shadows***

***Border and Box Effects: Browser Support***

***COLOR AND OPACITY***

***Setting Transparency with the opacity Property***

***New and Extended Color Values***

***The Alpha Channel***

***Hue, Saturation, Lightness***

***HSLA***

***The Color Variable: currentColor***

***Matching the Operating System’s Appearance***

***Color and Opacity: Browser Support***

***GRADIENTS***

***Linear Gradients***

***Linear Gradients in Firefox***

***Linear Gradients in WebKit***

***Using Linear Gradients***

***Adding Extra color-stop Values***

***Radial Gradients***

***Radial Gradients in Firefox***

***Radial Gradients in WebKit***

***Using Radial Gradients***

***Multiple color-stop Values***

***The WebKit Advantage***

***Multiple Gradients***

***Repeating Gradients in Firefox***

***Repeating Linear Gradients***

***Repeating Radial Gradients***

***Gradients: Browser Support***

***2D TRANSFORMATIONS***

***The transform Property***

***rotate***

***Position in Document Flow***

***transform-origin***

***translate***

***skew***

***scale***

***Multiple Transformations***

***Transforming Elements with Matrices***

***Reflections with WebKit***

***2D Transformations: Browser Support***

***TRANSITIONS AND ANIMATIONS***

***Transitions***

***Property***

***Duration***

***Timing Function***

***Delay***

***Shorthand***

***The Complete Transition Example***

***Multiple Transitions***

***Triggers***

***More Complex Animations***

***Key Frames***

***Animation Properties***

***The Complete Animations Example***

***Multiple Animations***

***Transitions and Animations: Browser Support***

***FLEXIBLE BOX LAYOUT***

***Triggering the Flexible Box Layout***

***The box Value in Firefox***

***Inline Boxes***

***Making the Boxes Flexible***

***Unequal Ratios***

***Zero Values and Firefox Layouts***

***Grouping Flexible Boxes***

***Changing Orientation***

***Changing the Order of Flexible Boxes***

***Reversing the Order***

***Further Control over Ordering***

***Alignment***

***Same-Axis Alignment***

***Multiple Rows or Columns***

***Cross-Browser Flex Box with JavaScript***

***Stop the Presses: New Syntax***

***Flexible Box Layout: Browser Support***

***TEMPLATE LAYOUT***

***Setting Up the JavaScript***

***Using position and display to Create Rows***

***Multiple Rows***

***Slots and the ::slot() Pseudo-element***

***Creating Empty Slots***

***Setting Height and Width on Rows and Columns***

***Width Keyword Values***

***Setting Both Row Height and Column Width***

***Default Content: The @ Sign***

***Template Layout: Browser Support***

***MEDIA QUERIES***

***The Advantages of Media Queries***

***Syntax***

***Media Features***

***Width and Height***

***Device Width and Height***

***Using Media Queries in the Real World***

***Orientation***

***Aspect Ratio***

***Pixel Ratio***

***Multiple Media Features***

***Mozilla-Specific Media Features***

***Media Queries: Browser Support***

***Overview of tools which aid in Responsive design***

***Grid & Frameworks***

***Sketch Sheets & Wireframes***

***JavaScript & JQuery Plugins***

***THE FUTURE OF CSS***

***Mathematical Operations***

***Calculation Functions***

***Cycle***

***The Grid Positioning Module***

***Implicit and Explicit Grids***

***The Grid Unit (gr)***

***Extended Floats***

***Extending the Possibilities of Images***

***Image Fallback***

***Image Slices***

***Image Sprites***

***Grouping Selectors***

***Constants and Variables***

***WebKit CSS Extensions***

***CSS Variables***

***Extending Variables Using Mixins***

***CSS Modules***

***Nested Rules***

***Haptic Feedback***

***Future CSS: Browser Support***

***CSS3 SUPPORT IN CURRENT MAJOR BROWSERS***

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