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Design for the Web 2

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Art 49540 3AD Design for the Web 2
This course builds on a solid framework in web design to encompass scripting and interactivity, audio, video and animation over the Web and sophisticated data handling and processing. Emerging technologies and languages (HTML5, Javascript, CSS) will also be addressed. 3 cr./3 hr.

The syllabus & weekly handouts are posted on the web site [Tuesday night] as PDF files: at: http://www.annetteweintraub.com/courses/49540/49540.html. Links and e-handouts are posted in DropBox or on LabShare as instructed.

Course Content
This course emphasizes the use of semantic structure and hand coding to create standards-compliant pages using advanced CSS for position and formatting to create responsive design that works on a range of devices from mobile to large screen. This course will use the an HTML framework (Kickstart or Bootstrap) with enhancements to HTML5 and CSS3 to explore diverse aspects of page and user interface design. Students will also create an online portfolio to showcase print and screen projects. Syllabus may be revised during the semester depending on the needs of the course.

Projects

Biography project
Single-page scroller typographic project with dot navigation. Using ONLY typography and punctuation, create a visual portrait of a text relating a biographical incident in your life. Design a typographic narrative using fonts, color and typographic symbols which is set into a one page scrolling website.

Documentary project
Single-page project, responsive design project using a web framework. Using student-generated photographs and text to document an actual place, person or event. Pages will reformat to work on at least three devices [desktop, iPad, iPhone].

Portfolio project
Create a personal portfolio in a responsive, one-page format for both web and print work [video optional] designing a gallery interface in the form of a vertical or horizontal slider. Add parallax and animation enhancements for extra credit. May use a framework or be hand coded, but you must use a grid.

Projects are organized in approximate four-week units with CSS and themed topics. This course places equal emphasis on coding AND design. Students must use ORIGINAL art [photography and illustration] and pay attention to the concept & execution of page designs.

Course Objectives
• to understand and use proper semantic markup in designing with HTML and CSS.
• to develop advanced skills in design and development using HTML5 and CSS3 and related technologies such as jQuery
• to develop pages and sites that will work across a range of different devices and support a range of media
• to become fluent in the range of digital tools, used by artists in a web design context.
• to design and develop an online portfolio that can be used to gain an internship or employment after graduation.

Required Texts: none. We use online links and html handouts.
You will be sent a link for downloads from DB
Materials: USB drive, 1GB or other backup media like DB Lab fee includes USB drives, DVDs [given out around mid-semester]; students also receive 2 years of web site hosting.
Weekly Topics Outline

Week 1 Intro. **HTML5 SEMANTICS, THE BOX MODEL. ONE PAGE SCROLLER.** The Biography Project. HTML5 Review, semantic markup and separating appearance from structure. Review of HTML5 tags and Doc types. Viewing CSS with WebDev. **CSS/HTML direct prototyping using DIVs.** Using Fonts, part 1. Browser issues, accessibility. **Required and recommended tools.** The Biography Project will be a one page scroller with Examples of Biography project.

Week 2 Biography Project. **FONT SIZING, BOX-SIZE ELEMENT, OPACITY, DROP CAP, SCROLLERS** HTML5 and CSS positioning and selectors. BOX-SIZE. Font sizing: relative font sizes [pixel,percent, em], CSS Opacity, and Drop Cap. Page scrolling.

Week 3 Biography Project. **@FONT-FACE, REM MEASUREMENT, DROP SHADOW, MORE LAYOUT** Font replacement @font-face. REM and Em-based font layout. CSS Drop Shadow and Text Shadow. Review of layout/box positioning. More on scrolling: intro to jQuery and Javascript for scrolling.

Week 4 Biography Project. **CSS FONT EFFECTS, CSS3 GRADIENTS, SLABTEXT, ROUNDED CORNERS** CSS3 first-line, generated text, CSS gradients, rounded corners boxes, jQuery font effects: SLABTEXT/ BIGTEXT. Border radius and Gradients. Max and min-width elements.


Week 9 MIDTERM PORTFOLIO DUE. **START PORTFOLIO PROJECT. PORTFOLIO EXAMPLES, WIREFRAMING AND NAVIGATION, CSS GRID continued** Design a web portfolio [include your web2 and web 1 work]. Use responsive design. Wireframing and site maps for project planning. Build your page using your framework, using a grid for page/section layout. CSS Navigation: using lists and rollovers for nested menus. Tabbed navigation, breadcrumbs.

Week 10 Portfolio Project. **HORIZONTAL/VERTICAL SCROLL, CSS and JQUERY ANIMATION, EASING** JQuery tutorials for sliders and scrolling. CSS transforms and transitions. Animating with transforms, easing.

Week 11 Portfolio Project. **PARALLAX, GALLERIES & LIGHTBOX** Tutorial on parallax scrolling. Designing for galleries [lightview, slimbox2].

Week 12 Portfolio Project. **HTML5 AUDIO AND VIDEO,** Audio/Video native controls for HTML5, Video Controls in the framework. More CSS3 transitions including clipping and masking, Specificity and troubleshooting.

Week 13 Portfolio Project. **GEOLOCATION/GEOCODING, QR CODES, JQUERY INTERACTIONS** Intro to Geocoding and Geolocation, jQuery interactions: drag & drop, resizable areas, color animation.

Week 14 Portfolio Project. **TESTING, TROUBLESHOOTING, CROSS BROWSER CHECK, FREELANCING** Revise and test your pages on multiple browsers. Work in class.

Other possible topics: CSS Patterns, Material Design, CSS filters, CSS styleguides.
Required Texts

NONE. We use online links and html handouts. Also see the list of free web tools to download.

Recommended Texts

The Modern Web, Multi-Device Web Development with HTML5, CSS3 and Javascript. Peter Gasston, No Starch Press, 2013 [available on O'Reilly in pdf for 50% off, $27.95 reduced to $18.97]


Recommended for Photoshop reference:


Photoshop for the Macintosh and PC, Martin Evening, Taylor & Francis, 2012


Materials

USB drive (or other removable storage media), 16GB preferred

BACKUP MEDIA: 2nd USB or cloud [Dropbox, etc.]

Lab fee includes USB drives [given out around mid-semester]; students also receive 2 years of web site hosting as part of the lab fee.

Web Tools

Web Developer addon for Firefox: http://addons.mozilla.org

Firebug addon for Firefox: http://addons.mozilla.org


GRID: http://sprymedia.co.uk/article/Grid

Gridfox: http://www.puidokas.com/portfolio/gridfox/ Firefox extension

Image-based grid tool: http://netprotozo.com/grid/ grid generator

Miro video converter: http://mirovideocompiler.com

Pick/analyze colors & palettes without Photoshop: http://www.colorzilla.com/firefox/

Browser size: http://browsersize.googlelabs.com

CSS Refresh: http://cssrefresh.frebsite.nl/

CSS Web References [class links for the semester are on the LabShare server]

Techniques, tutorials: http://www.smashingmagazine.com/category/css/


A List Apart: weekly magazine on web design + CSS http://www.alistapart.com/stories/

Other CSS Resources & References


Tutorials and reference.


CSS resources and links. http://meyerweb.com/eric/css/edge/

Cheat Sheets

cheat sheets css2 and css3, html5 from smashing magazine


http://sixrevisions.com/resources/cheat_sheets_web_developer/

http://foxinni.com/web-resources/cheat-sheets-for-programmers/

All work for this class is digital and posted to the server.

FINAL PORTFOLIOS will be hosted online for 2 years after the class ends; you can use this as your web portfolio site.

ONLY portfolio content can be maintained on these sites [but you can add to your portfolio as you like].

Be sure your online content does not violate copyright.

ACADEMIC INTEGRITY POLICY

Any act of academic dishonesty will be dealt with by applying the most stringent penalties permitted.

Cheating includes but is not limited to receiving help during exams and submitting homework without properly acknowledging persons who assisted you.

Please read the Policy on Academic Integrity posted on the CUNY website with URL:

http://www.cuny.edu/about/administration/offices/la/Academic_Integrity_Policy.pdf