

**Review on-line quizzes and online textbooks for possible exam questions (overlaps with topics below).**

- Correct any questions you did not answer correctly and review all the questions & answers.

**Cascading Style Sheets**

- [Stylin' with CSS: A Designer's Guide, Second Edition](#) online
- CSS Pages on CIS 421 website, <http://www.csupomona.edu/~lsoe/42101/css/index.htm>
- *CSS Quizzes in Blackboard*
- How can you make sure that the elements on a page will scale up or down if a user changes the font size, called elastic layout, made famous by the elastic lawn Zen garden layout:  
<http://www.csszengarden.com/?cssfile=/063/063.css&page=0> ?
  - You need to define the default font size in the body tag in a certain way, which is \_\_\_\_\_
  - Then you have to define the elements on the page using what kind of unit?
  - And you have to define the fonts on a page using what kind of unit?
- Review using pseudo-styles for a navigation menu that uses line items (Ch. 6)

**Universal Design for Multimedia Websites:**

- [Universal Design for Web Applications: Web Applications that Reach Everyone](#), By Wendy Chisholm, Matt May, O'Reilly, November 2008 - online book,
  - *Chapter 1, Introducing Universal Design*
    - Define universal design
    - Why are situational disabilities important to the acceptance of designing for accessibility?
  - *Chapter 2. Selling Universal Design*
    - Disability Classes with examples of the Disabilities it includes
    - Disability Classes with situational disabilities, with examples of technologies that provide situational disabilities to non-disabled users.
  - *Chapter 3. Metadata. What do these metadata define and why are they needed?*
    - <title>
    - Lang
    - Semantic tags
    - Document or doctype
    - Alt attributes for images
    - What is a CAPTCHA? What is it used for?
    - What is Quirks mode?
  - *Chapter 4. Structure & Design*
    - *Semantic markup – what is it? why is it important? Examples?*
    - *Problems with layout tables for screen readers*
    - *Relative vs. fixe units*
    - *Zoom feature in newest browsers*
  - *Chapter 5. Forms*
    - *Form fields & how to make them accessible*
  - *Chapter 6. Tables*
    - *Table accessibility*
  - *Chapter 7. Video*
    - *Multimedia file types*
    - *Captioning*
- **UDWA Quizzes in Blackboard**
- Review PowerPoint's:
  - *color.ppt*, <http://www.csupomona.edu/~lsoe/42101/powerpoint/color.ppt>
  - *multimedia.ppt*, <http://www.csupomona.edu/~lsoe/42101/powerpoint/multimedia.ppt>
- Review the project plan <http://www.csupomona.edu/~lsoe/42101/exercises/ex2.htm> so you understand what each of these plan elements does
  - GAS Analysis to gather website requirements
  - What is a persona? What types of information are important in defining a persona?
  - Site Activities or Narrative
  - Types of success metrics:

- What are the characteristics of well-formed XHTML?
- Graphic storyboard of site structure
- Wireframe of web page design
- Navigation Plan
- Branding/style
- What kinds & sizes of text & fonts

**Usability** <http://www.csupomona.edu/~llsoe/42101/powerpoint/usability.ppt>

1. Usability gurus: Norman, Nielsen
2. Norman's human-centered approach. Important concepts:
  - a. Knowledge in the head
  - b. Knowledge in the world
  - c. Setting expectations through affordances
  - d. Paradox of technology
3. Jakob Nielsen
  - a. What is usability and what are its 5 quality components
  - b. What does "Usability rules the Web" mean?
  - c. What is "The Law of Internet User Experience"?
  - d. What does SERP stand for?
  - e. How do you get a site higher on the "organic" or non-sponsored SERP list?
  - f. Information Foraging: Are users more likely to go after information in small bites or big meals?
  - g. Navigation – what is "banner blindness" and what does that mean for web page layout?

**General Multimedia questions**

- <http://www.csupomona.edu/~llsoe/42101/powerpoint/color.ppt>
- **License and Copyright issues:**
  - If you do not put a copyright symbol or watermark on your photo, or state "all rights reserved" or claim a creative commons license on the photo, what protection do you have under the Berne Act of 1989?
  - Review the Creative Commons Licenses <http://creativecommons.org/about/licenses/>
  - Be able to define what the different types of licenses are:
    - Attribution
    - Share Alike
    - no derivative works
    - Attribution Non Commercial
- Review website pages on *Photoshop*, *Premiere*, *Flash* that we covered in class
- What are the main types of image compression that display on the web?
  - GIF: maximum number of colors; web-safe color palette; transparent gif; what kinds of images compress best in GIF compression? Why?
  - JPEG – what kinds of images compress best in JPEG compression? What does JPEG compression try to optimize? Why?
  - PNG – won't be on exam
- Photoshop:
  - What is the name of the command that lets you combine several photographs that overlap, that you can use to create a panorama image?
  - How can you animate a shape in the Photoshop animation palette?
- Color Theory:
  - What are the 3 characteristics of color?
  - What are complementary colors and why is it hard to look at them side-by-side, for example red font on a green background?
  - What two aspects of color does the Color Contrast analyzer measure?
    - Why is it important that your font/background color combinations pass the color contrast & color difference test?
  - What kind of color does a computer display: additive or subtractive?
  - What are the 3 primary colors of light or additive colors?
  - What are the hex codes for
    - White?
    - Black?

- Fully saturated red?
- Fully saturated Green?
- Fully saturated Blue?
- Bright Yellow?
- Flash
  - What does a keyframe do in Flash? (similar to keyframe in Premiere & Photoshop animation)
  - What are the 3 types of symbols that you can define in Flash?
  - What does motion tweening do in Flash CS3?
    - What kind of element can you motion tween?
  - What does shape tweening do in Flash.
    - What kind of element can you shape tween?
  - When you add captioning to a Flash FLV file, you have to create a special kind of document that contains the captions.
    - What file format is it?
    - What do you define in the document that displays the captioning either on the page or in a dynamic text area on the page?
  - One of the reasons Flash files are so small is because Flash uses a certain kind of image, unless you import bitmapped images and don't convert them into the Flash kind of image.
    - What kind of image is the native format in Flash?
    - Why is it smaller than a bitmapped image?
  - You can use a Flash symbol several times in one movie and you only need to download that symbol one time. If you use the symbol more than once and you are going to add some ActionScript that will animate the symbol, you need to give each version of the symbol on the page an \_\_\_\_\_ name

### **Accessibility**

- **421 website:** <http://www.csupomona.edu/~llsoe/42101/accessibility/index.htm>
- Review the pages on accessibility problems and solutions for disabled users of websites: <http://www.csupomona.edu/~llsoe/311/accessibility/solutions.htm>
- Review which accessibility solutions a web developer could provide for each of the main types of disabilities on the list:
  - Visual disabilities
    - Blindness
    - Low vision
    - Color blindness
  - Hearing disabilities
  - Motor disabilities
  - Cognitive disabilities
- Be able to briefly define sections 504 and 508 of the U.S. Rehabilitation Act? <http://www.csupomona.edu/~llsoe/42101/accessibility/index.htm>
- Review accessibility quizzes in Blackboard
- **Resources: WebAIM articles on accessibility** <http://www.webaim.org/articles/>

#### **The User's Perspective**

[Introduction to Web Accessibility](#)

[Visual](#)

[Auditory](#)

[Motor](#)

[Cognitive](#)

[Seizure](#)

[Design Considerations](#)

[Considering the User Perspective: A Summary of Design Issues](#)

#### **HTML Accessibility**

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Content and Structure

[Creating Semantic Structure](#)

[Designing for Screen Reader Compatibility](#)

[Links & Hypertext](#)

[Writing Clearly and Simply](#)

[Forms](#)

[Usable and Accessible Form Validation and Error Recovery](#)

[Images](#)

[Appropriate Alternative Text](#)

[Keyboard Accessibility](#)

Presentation and Style

[CSS](#)

[Fonts](#)

[Text/Typographical Layout](#)

[Tables](#)