



CSCI-UA-4-005

Intro to Web Design + Computer Principles

Workshop + Final Exam Info

Professor Emily Zhao

M/W 12:30PM – 1:45PM



Agenda

- Review Final Project requirements
- Small group breakouts
- Final exam information
- Final exam topics survey
- Workshop

Final Assignment

Breakout Groups

Final

Final

Date: Wednesday, December 20
12:00pm-1:30pm, GCASL 383

Format: Multiple Choice

Topics Covered: First Half Topics + Accessibility, Page Layout, Responsive Design, Javascript, Audio + Video, Forms, Version Control, Web Hosting + Domains

- Paper exam; no laptops/internet
- Open note (bring in whatever you need)
- 65 questions total (5-10 per topic, ~20 for attached code)

Changes

Time: 90 minutes

Questions: 65 questions

Code will be detachable to make it easier to reference!

Final Exam Topics

0 surveys completed



0 surveys underway



First Half Topics

Computer Principles

The Internet

Unix

HTML

CSS

Raster Graphics

Vector Graphics



Second Half Topics

Accessibility

Page Layout

Responsive Design

Javascript Basics

The DOM and DOM Events

Forms

Audio + Video

Version Control

Web Hosting + Domain Names



Accessibility

Accessibility definition

Types of impairment

Additional beneficiaries of accessibility

Core principles of web accessibility

Accessibility Tree

Semantic HTML

Best practices for accessible design



Page Layout

Key principles of wireframing

Importing custom fonts

CSS Float

CSS Positioning (static, absolute, fixed relative, sticky)

CSS Flexbox

CSS Grid



Responsive Design

Foundations of responsive design

Mobile-first vs desktop-first

Units of length (absolute, relative, auto, inherit)

%, em, rem

Media queries

Responsive Images



Javascript Basics

Front-end language definition

Naming variables in Javascript

Data types in Javascript

`console.log()`

Math, relational, and logical operators

Boolean expressions

Conditionals

Date object

`Math.random()`, `Math.floor()`



The DOM + DOM Events

DOM definition

DOM nodes

DOM queries

DOM events

Binding



Forms

The use of forms

Form syntax in HTML

Form validation

Form processing



How to create media in HTML using video and audio tags

How to use an iframe



Version Control

Versson control system (VCS) definition

Centralized vs distributed version control

The history of git

The basics of git states (modified, staged, committed)

The use of Github



Web Hosting

Domain names

Top-level domains (TLDs)

Web hosting

Domain services

SEO

Semantic URLs

Website Analytics



Workshop

Homework

- Work on your final website!
- Begin to review