



Design for Emerging Interfaces

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MIDTERM
TAKE HOME EXAM

MW 4:00-5:50

MIDTERM EXAM DUE WEDNESDAY, MARCH 10TH BEFORE CLASS.

So far this semester you have learned:

1. The principles of effective interface design including visual hierarchy
2. Accessibility standards and applications
3. Image resolution, image size, image types (advantages and disadvantages of each)
4. File structure and organization
5. Basic html and css
6. Inserting SVGs into web pages and creating basic interaction
7. Building a site from provided content
8. Inserting video into a web page

For this part of your midterm you are required to complete the following exam. The exam is an open book, take home exam and you may reference the lectures and assignments from the course so far. Everything is either linked from the class web page or available through class recordings. You **MUST** complete the exam on your own, without help from other classmates.

The exam is worth 100 points with one bonus question worth 5 points. The total number of points you are eligible to receive on this part of your midterm is 105. Follow the instructions in each section to complete this exam and email it to me, along with any of the required attachments, before 4:00 (the start of class) on Wednesday, March 10th.

Include **your name** and **midterm** in the subject line of your email.

1.) Match the following words with the definitions. Type the correct letter in the box provided next to the vocabulary word.

- | | | |
|----------------------|--------------------------|--|
| 1. Visual Hierarchy | <input type="checkbox"/> | a) Refers to the part of CSS styles that have Properties and Values |
| 2. Screen Resolution | <input type="checkbox"/> | b) Design that formats for devices of varying sizes |
| 3. html element | <input type="checkbox"/> | c) A graphic that uses mathematical formulas rather than pixels. |
| 4. ID Selectors | <input type="checkbox"/> | d) These are html attributes that can be set on any html element. You can use it on any html element and you can use it as many times as you need. |
| 5. Alt Text | <input type="checkbox"/> | e) Refers to the arrangement or presentation of visual elements in a way that implies importance. |
| 6. SVG | <input type="checkbox"/> | f) Refers to everything in between the start tag and the end tag. |
| 7. CSS Declarations | <input type="checkbox"/> | g) These are html attributes that must be unique to the page |
| 8. Bitmap image | <input type="checkbox"/> | h) Stands for Scalable Vector Graphics and is an image that is dynamically generated in your browser. |
| 9. Responsive Design | <input type="checkbox"/> | i) This is descriptive text for an image that meets accessibility standards. |
| 10. Class Selectors | <input type="checkbox"/> | j) A raster graphic composed of individual pixels of information. |
| 11. Vector graphic | <input type="checkbox"/> | k) Refers to Pixels Per Inch, It's a relationship between physical size and pixel screen size |

2A) The head tag defines information about the html document. Use the space provided below to create an html document from the top through the close of the head tag. Make sure you include all the elements we have used so far in the head tag.

10 POINTS

2B) In your own words, define each of the elements you listed above in the head tag.

10 POINTS

You are asked to insert an image into an html page with an alt tag. The image is called landscape.jpeg and is a photo of the sandia mountains at sunset.

3A) What is the correct html mark-up you need to use to insert this image into the page.

10 POINTS

3B) In html mark-up language, add in the size of the image with a width of 450 and a height of 300 pixels.

10 POINTS

4.) In your own words, describe the three ways to add CSS styles to html. Be sure to use CSS examples to clarify your definitions and use the correct syntax in each example.

5.) In your own words, describe the two ways to insert an SVG file into a web page. 12 POINTS

8 POINTS

6.)
What is the difference between padding and margins in CSS styles? How do each of these affect content on the page?

6 POINTS

7.) You are inserting a video into a web page that has a width of 560 and a height of 315. Write the html mark up that adds video controls?

6 POINTS

8.) In your own words, describe the advantages of using You Tube to insert a video into a web page?

6 POINTS

9.) ****Bonus question****

Describe, in your own words, the importance of creating a file structure in web production.

5 POINTS