*March 3, 2021*

## Objectives

The objectives of this lab are to work on pseudo-element and responsive image skills, while continuing to exercise flexbox/grid, media query, and pseudo-class skills. You may also use the column-count property.

## Task

Your task is to build and publish an HTML5 webpage showing UXD/IT (if in 270) or HCI (if in 406) course offerings. The webpage will respond to different viewport widths by modifying presentation of course offerings between 1 and 3 columns, and to different form factors with different artwork. The webpage will resemble mockups shown at the end of the document.

The requirements are

1. Use foreground images using the <picture> element (from the collection of images I've assembled) so that you **call a progressively larger native image as your viewport (on a non-mobile site) gets progressively wider**. Select different images for both portrait and landscape orientation so that you have two orientations times at least three images sizes. **Do this with only the picture element; do not use @media breaks to manipulate your images.**

   Notice in the screen captures the landscape images spell out Human Computer Interaction, but the portrait images show "HCI". That text is part of the image. Said another way: Use the images with HCI for portrait mode and the images with "Human Computer Interaction" for landscape mode. [My apologies to UXD students that I haven't generated images that say UXD on them.]

2. Display the list of courses in three, two, or one column based on fit (**without wrapping course titles text**). You may use column-count or flexbox or grid (your choice) to manage the columns. *[Hint: refer to the Rachel Andrew code sample if you get stuck on this.]*

   You have some rough starter text to save you typing in all UXD/HCI courses. Each course has this structure in the code:

   ```
   <li data-title="Web Site Design for HCI">HCI 406</li>
   ```

   Note the content of each list item is the course number. Then there is a custom attribute with the course name.

3. If the viewport is too narrow, you may show course numbers without titles in two columns. You decide where the column or media breaks go.

Publish to your Lab 9 folder as index.html, and submit in the Lab 9 submission box. Please list any outstanding questions you have. Don't forget to validate early and often.

**IMPORTANT: These images are for an old version of this lab with checkboxes in left column. You are not being asked to do that. You are also not asked to include a footer.**

Above are two widths of a portrait viewport. Note the image selected for portrait. Below are two widths of a landscape viewport. Note the different image selected for landscape.

The black box is my Javascript width counter. That is not required in your solution.

HUMAN-COMPUTER
INTERACTION
DePaul CDM HCI Courses
HCI 201 Multimedia and the World Wide Web
HCI 271 Formatting Digital Pages II
HCI 302 Foundations of Digital Design
HCI 312 Analysis and Design for Human-Computer Interaction
HCI 341 Usability Issues for Electronic Commerce
HCI 350 Usability in Computing Systems
✓ HCI 402 Foundations of Digital Design
✓ HCI 406 Web Site Design forHCI
✓ HCI 421 Designing for Content Management Systems
The screen is 1374px wide and 921px tall.
HCI 432 User-Centered Web Development
✓ HCI 440 Introduction to User-Centered Design
HCI 441 Introduction to User-Centered Development
✓ HCI 445 Inquiry Methods and Use Analysis
✓ HCI 450 Foundations of Human-Computer Interaction
HCI 454 Interaction Design and Information Architecture
✓ HCI 457 Information Architecture and Content Strategy
✓ HCI 460 Usability Evaluation Methods
✓ HCI 470 Digital Design
✓ HCI 512 Information Visualization and Infographics
HCI 514 Global User Research
✓ HCI 530 Mobile Design
✓ HCI 558 Interaction Design and Analysis
✓ HCI 594 Human-Computer Interaction Capstone

HUMAN-COMPUTER
INTERACTION
The screen is 2212px wide and 921px tall.
DePaul CDM HCI Courses
HCI 201 Multimedia and the World Wide Web
HCI 271 Formatting Digital Pages II
HCI 302 Foundations of Digital Design
HCI 312 Analysis and Design for Human-Computer Interaction
HCI 341 Usability Issues for Electronic Commerce
HCI 350 Usability in Computing Systems
✓ HCI 402 Foundations of Digital Design
✓ HCI 406 Web Site Design forHCI
✓ HCI 421 Designing for Content Management Systems
HCI 422 Multimedia
✓ HCI 430 Prototyping and Implementation
HCI 432 User-Centered Web Development
✓ HCI 440 Introduction to User-Centered Design
HCI 441 Introduction to User-Centered Development
✓ HCI 445 Inquiry Methods and Use Analysis
✓ HCI 450 Foundations of Human-Computer Interaction
HCI 454 Interaction Design and Information Architecture
✓ HCI 457 Information Architecture and Content Strategy
✓ HCI 460 Usability Evaluation Methods
✓ HCI 470 Digital Design
✓ HCI 512 Information Visualization and Infographics
HCI 514 Global User Research
✓ HCI 530 Mobile Design
✓ HCI 558 Interaction Design and Analysis
✓ HCI 594 Human-Computer Interaction Capstone