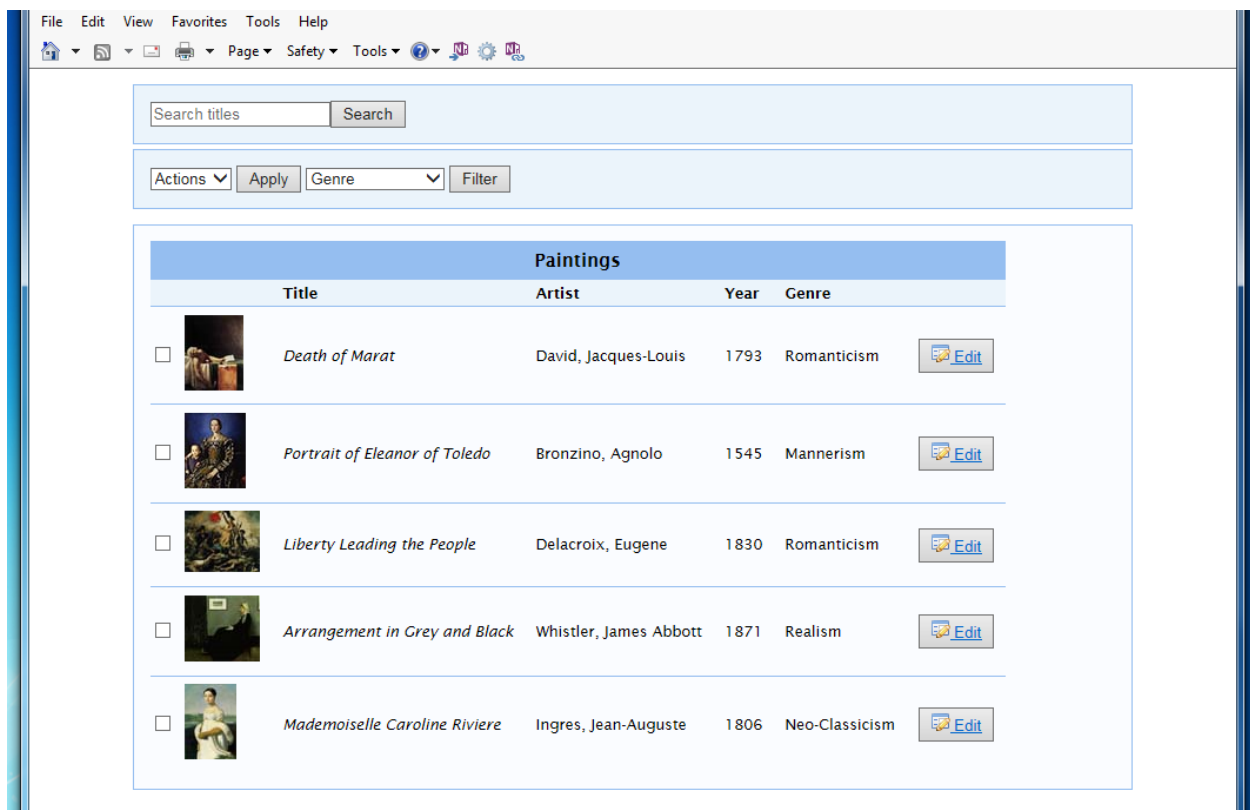


Lab 3: JavaScript

Due: at the end of the lab session, October 14, 11:25 am

This lab is similar in style to the previous labs. First you are asked/encouraged to work through the instructions on lab06.pdf (you can download the instructions and supplementary files from cuLearn). As I posted them well in advance, I expect/assume/hope that you take the opportunity to work through at least some of the material to prepare for the lab. The worksheet this time around is more intense, practicing a lot of JavaScript features we are not discussing in great depth in class or programming assignments, such as event listeners and working with the DOM that represents the HTML document.

Use the rest of the lab time to complete Project 3 on page 261. The lab will require you to work with the DOM representing an HTML document, adding and deleting nodes to it to update what the user sees on the display. Similar to lab 2, you should download a number of files from cuLearn to get you started: `images.zip` contains images that are used in this part of the lab. `ArtStoreInitial.html`, `ArtStore.css`, and `reset.css` will provide an initial display of the ArtStore that should look like this:



The images that are being displayed can be found in `images/art/thumbs`. Larger versions of this images, with the same filename, can be found in `images/art`. Complete the following steps:

1. Rename `ArtStoreInitial.html` to `ArtStore.html`

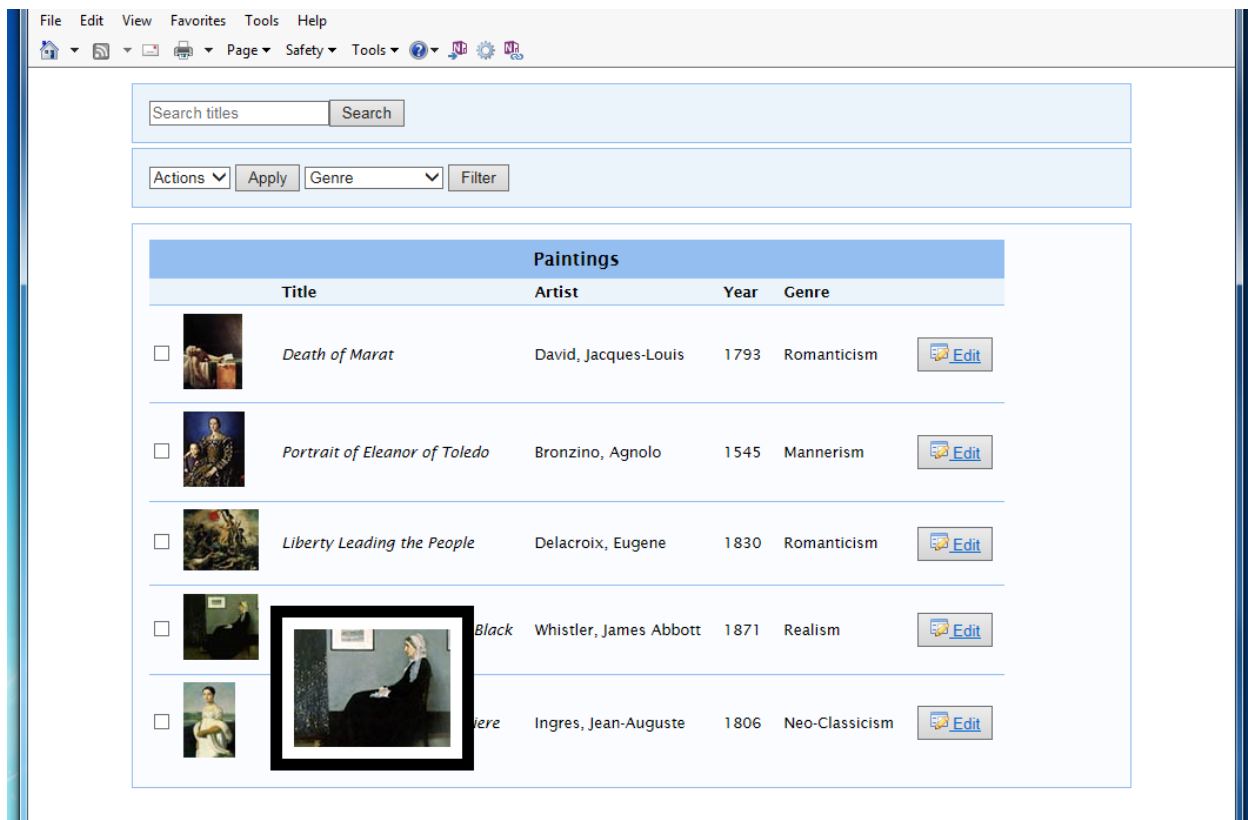
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Department of Systems and Computer Engineering
Distributed Network Processing
Lab Handout

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2. Add a link to a JavaScript file in the head of your page. The JavaScript file should be called `ArtStore.js`.
3. Slightly modify the HTML to add a class for each thumbnail image.
4. In your JavaScript file, write a loop to seek out all the `img` tags with the newly defined class (hint: `querySelectorAll()`).
5. For each image, attach a listener on the `mouseIn` event to create a new `` with the corresponding larger image inside (based on the `src` attribute). Ensure that this node is attached to the parent and the browser told to update the display.
6. Add another listener on the `mouseOut` event to delete the newly created ``.

When done, the page should look similar to the one below when hovering with the mouse over one of the images, and should revert back to the original display when the mouse is not over any image.



Submission: submit the following two files for this lab:

1. Your renamed and modified `ArtStore.html`
2. Your `ArtStore.js` file

Similar to the previous two labs, the TA should be able to simply double-click on your `ArtStore.html` and see an output similar to the figure above. We again assume that the directory `images` is stored locally on the same computer and directory that the html source document is located and that the two style files `reset.css` and `ArtStore.css` are similarly available.