

## Lab 11: Web Programming - CSci130

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Keep the different documents that you are creating during the lab sessions as they can be asked later as a part of the “attendance and participation” mark.

**Goals:** The goal of this lab is to experiment the functions related to the use of cookies and localStorage using HTML5.

**Learning outcomes:** Cookies, Local storage, image upload with PHP.

### Part 1. Cookies

Create an HTML5 page that uses both **cookies** and **local storage** to save information.

1. You have to create a form that allows to enter inputs (first name and last name), and to save this information with cookies and in the local storage.
2. Verify that the information in the cookie is properly saved when you check the cookies in your browser in the localhost domain (it has to run on the server side).

### Part 2. File Upload & ASCII Art.

By using the PHP file (image\_gray.php) that is on Canvas, create a page where you can upload a file corresponding to an image, specify the size of the output image, and then transform this file into its binary representation that can be displayed in an HTML5 page.

The goal is:

- Upload the image
- Access the content of the image
- Binarize the image by determining a threshold
- Resize the image in relation to a predefined size given as an input
- Represent the image on a page

The main steps are given in the PHP file. You should use jpeg files.

### Part 3. Project Questions & Answers