

Experiment 14

CSCI-230 Web Scripting

Fall 2024

Part I

Inside the **experiments** directory in your repository create a *subdirectory* named **e14**.

Inside the **e14** directory create 14.html, 14.css, and 14.js.

In **csci230/index.html** add a link to **csci230/experiments/e14/14.html**.

Part II

Create a page that has a scrollable container. The scrollable container should initially contain boxes that overflow the container. The last child element of the scrollable container should be a **div** with the **id** set to "**loadIndicator**".

Part III

Use an **IntersectionObserver** to detect when the load indicator is visible in the scrollable container. When this occurs, add 3 new boxes to the end of the scrollable container, right before the load indicator. When a new box is added to the scrollable container randomly decide if the box should contain an image or not. If so, display an image in the box. Approximately 30% of the boxes should contain images.

Part IV

Use a **MutationObserver** to monitor the scrollable container. Detect how many boxes in the scrollable container contain images and display, somewhere on the page, the *number of images* and the *total number of boxes* in the scrollable container.