

Ajax: Load Movies from a Text File

(Please complete Labs 8 & 9 before starting this one.)

Your goal for this lab is to make a simple web app that populates a table with movies from a file on the local server. You will use Ajax to update the table asynchronously.

First make your HTML and CSS: it should look like screenshot_initial.png.

HTML requirements:

- Use th elements for the table heading.
- The button element's type attribute should be "button" since it will only trigger a JS handler. It doesn't involve form submission.
- Use paragraphs, tables and headings appropriately to indicate document structure and semantics.

Then start a local development server and serve your apps files from there. Your server should host your html, css, js as well as the following file: "movies-top-grossing.txt", which is the file from which you'll generate your table of movies. (Download it from <http://sonic.dawsoncollege.qc.ca/~mfrydrychowicz/data/movies-top-grossing.txt> and put it in your local dev server root directory.)

JS Requirements (read all the requirements, plan your solution, then start writing your code):

- Use an async XMLHttpRequest to get the raw movie list from the txt file. The request should be triggered on the click event of the "Add More Movies" button.
 - As a result, the HTML table should display the **last 20 movies** listed in the txt file. See screenshot.png.
- Throughout your solution, take advantage of Array and String API methods: map, forEach, slice, split, replace, etc.
- Modularize your solution; that is, break down the data processing into small steps rather than doing everything in one giant event handler:
 - Write a function that is responsible for creating a table row with a movie title and year in different cells. For example, this function could accept the title and the year as arguments, and return a tr element (without actually adding it to the DOM).
 - Write a function that just gets the last n lines from a string. Parameters: text, numLines. Return type: array of strings.
 - Write a function that reads a file asynchronously: this is the function that should use XMLHttpRequest. Parameters: url, callback. (callback is a function that should be called when the file is downloaded.)

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Source: [_javascript_423/exercises/10_ajax_txt/10_ajax_text.md](#)