coursera

Access MATLAB Online

Access to MATLAB Online is being provided by MathWorks for the duration of this course. MATLAB Online retains most of the features of the desktop program in a web-based interface. No download or installation is required, and the program can be accessed from any computer using a common web browser.Follow these steps to access MATLAB Online:

1. Create a MathWorks account if you do not already have one.

2. Click on the Machine Learning license link and provide your MathWorks account credentials if requested.

3. Click on the blue 'Access MATLAB Online' button and provide with your MathWorks account credentials.

4. Bookmark https://matlab.mathworks.com/ for quicker access to MATLAB Online in the future.

For help with access or technical issues, see the 'MATLAB Help' discussion forum which is monitored by MathWorks.

Upload the Programming Exercises to MATLAB Online

The programming exercises consist of code files, data files, and instructions. They are provided as compressed .zip files later in the course. (The first programming exercise is at the end of Week 2). Follow the instructions below to upload and unzip the exercises:
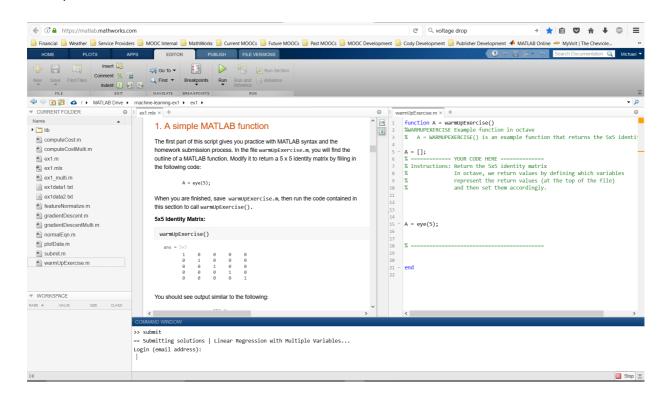
1. Download the exercise .zip file to your computer.

2. Log in to MATLAB Online, then drag and drop the exercise .zip file into your Current Folder (or use the 'Upload' button in the Home tab).*

3. Enter and run the following command at the command line to unzip the exercise folder: **unzip machine-learning-exn.zip;** (replace '**n**' with the exercise number).

4. Confirm the exercise folder was unzipped correctly, then delete the zip file.

5. Right-click the '*machine-learning-exn*' folder, and select 'Remove from Path -> Selected Folder and Subfolders'.

*DO NOT unzip the homework files on your computer and upload the files individually!

Set your folder to the exercise folder

To work on and submit the programming exercises, your Current Folder must be set to the *exn* exercise folder. To set your current folder to the exercise folder, right-click the *exn* exercise folder and select 'Open'. You should then see only the exercise files and 'lib' folder in your Current Folder window. Your MATLAB Online environment should look similar to the example below*:

*The ex1.mlx Live Script (see below) and warmUpExercise.m function file have been opened in the above image for reference. The submit command has also been entered in the Command Window (you may see a warning the first time you submit a new exercise which can be ignored).

MATLAB Live Scripts (Optional)

MATLAB Online users can now use Live Scripts to complete the programming exercises. The Live Scripts combine the exercise instructions (e.g. *ex1.pdf*) and exercise scripts (e.g. *ex1.m*, *ex1_multi.m*) into a single file (e.g. *ex1.mlx*). The Live Scripts combine the rich text, images, and equations from the instructions with the executable code from the scripts. They offer a more convenient way to complete the exercises online, as well as improved handling of text and figure output, and interactive controls.

The workflow for completing the programming assignments using the Live Scripts differs from the original instructions and the lecture videos. To complete programming assignments *without* the Live Scripts, ignore this section and follow the instructions provided on the programming assignment page and in the exercise files. To complete a programming assignment *with* the Live Scripts, follow the instructions below:

Upload the Live Scripts to MATLAB Online

1. Download the Live Script .zip folder to your computer:

machine-learning-live-scripts.zip

2. Rename the .zip file 'machine-learning-live-scripts' (Coursera adds a prefix to the .zip file name that must be removed prior to uploading to MATLAB Online).
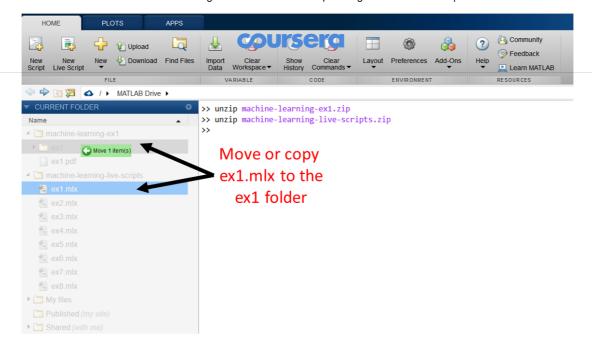
3. Upload the .zip file to MATLAB Online and unzip it using the command '**unzip machine-learning-live-scripts.zip**'
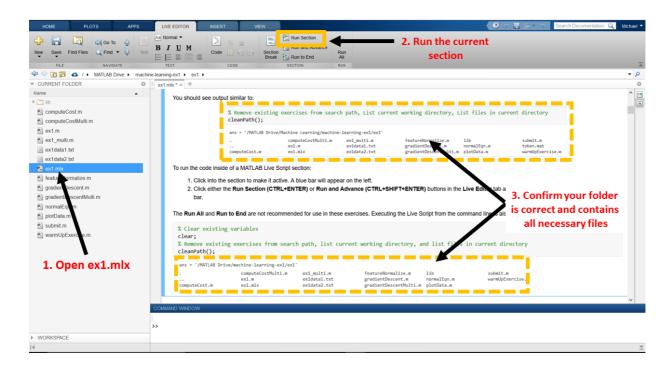
Complete the programming exercises using Live Scripts

1. When you reach a programming assignment in the course, upload and unzip the exercise folder as described in the section 'Upload the Programming Exercises to MATLAB Online' above.

2. Move the Live Script for that exercise into the exercise file folder (e.g. move *ex1.mlx* into *machine-learning-ex1\ex1*). (See Fig 1.)

3. Open the exercise file folder (e.g. right click *machine-learning-ex1\ex1* and select 'Open') and open the Live Script (e.g. right-click *ex1.mlx* and select 'Open'). The instructions in the Live Script will guide you through the exercise. In general, as you work through the exercises you will be prompted to:

a. Confirm you are in the correct exercise folder and you have all the necessary files. (See Fig 2.)

b. Execute sections to load, format, and visualize data.

c. Open, complete, and save function files, then execute sections to call your functions. (See Fig 3.)

d. Confirm your output is correct and submit your functions for assessment by entering the submit command in the command window. (See Fig 4.)

Please use the pinned thread 'Live Script Help' in the 'MATLAB Help' discussion forum to provide feedback, seek technical help, or report issues with the Live Script exercise files. All other questions about the programming exercises and course material should be directed to the discussion forum for appropriate course week.
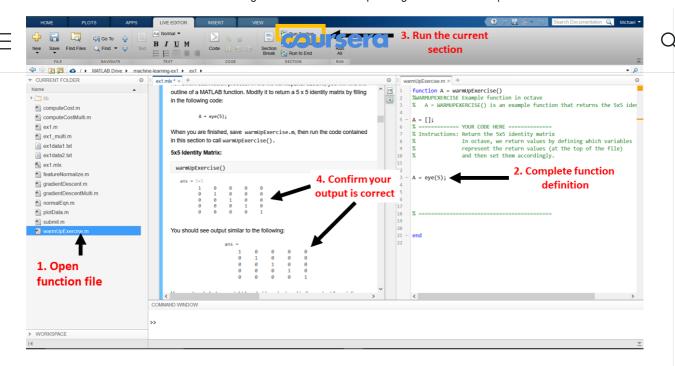
Figure 1: Copy the Live Script into the *machine-learning-exn\exn* exercise folder.
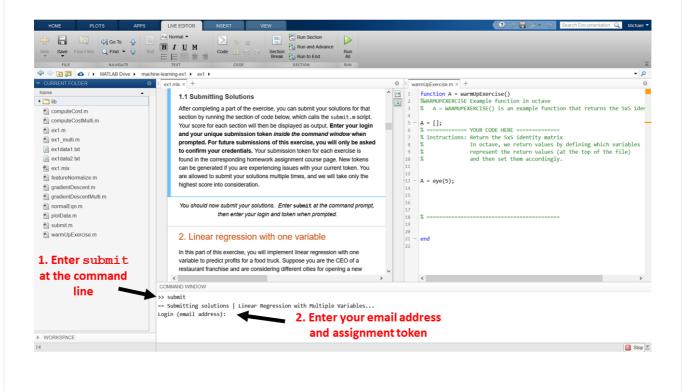
Figure 2: Open the Live Script and follow the instructions. Confirm you are in the correct folder and all files are present. There is no need to enter code in the Command Window except when submitting. You should execute code within the Live Script using the Run Section button, which will run the code in the current section.

Figure 3: Follow the instructions in the Live Script. When prompted, open and complete function files and/or run code sections in the Live Script.

Figure 4: When prompted, submit your function files for assessment. Enter the **submit** command in the Command Window. Then provide or confirm your Coursera email and assignment token (found in the assignment course page).

✓ Complete