Documenting Your Matlab Work

Much of our work will be demonstrated using Matlab. It will be convenient to be able to publish that work in PDF format.

For an example, go to the class website and download the Matlab $m-$file `ExampleWriteUp.m`. This is a short script file that creates some data, then solves a least squares model using the normal equations. After downloading, open it in the editor- That is, type the following in the command window:

```
edit ExampleWriteUp.m
```

Some notes:

- Using double percent signs `%%`, separates the document into sections that Matlab calls *cells*. Dividing your work this way gives you options that you normally would not have (like we can execute code in only particular cells instead of the whole M-file).

- You should end a cell particularly after plotting- Plots are inserted in between cells when we publish our work.

- Look to see how Matlab puts together comments- We can even include LaTeX commands (We have a table in the first section).

- From the editor window, go to the `Publish` tab, then find the `Publish` icon. Under that is an arrow that will lead you to *Edit publishing options*. For the **output file format**, change the default HTML format to PDF.

- Now press the `Publish` icon.

- You'll see the PDF file in a new folder called *html*.