

Getting started in Matlab

1. Read the Matlab tutorial at <http://people.cs.ubc.ca/~murphyk/Software/matlabTutorial>.
2. Download pmtk3 (6jan2010 or more recent) from <http://code.google.com/p/pmtk3/>, then unzip it. This might take a few minutes.
3. Download pmtkData.zip from <http://people.cs.ubc.ca/~murphyk/Data/> and unzip it. This might take a few minutes.
4. Download mnistALL.mat from <http://people.cs.ubc.ca/~murphyk/Data/>. This might take a few minutes. Move mnistALL.mat inside the pmtkData directory.
5. Run the following commands (inside Matlab) to add the directories to your Matlab path (you will need to replace C:/kmurphy with the name of the directory where you downloaded the files).

Listing 1: Initializing your path

```
addpath(genpath('C:\kmurphy\pmtk3'))
addpath('C:\kmurphy\pmtkData')
```

Alternatively, you can use the GUI to do this by selecting “file → set path → add with subfolders”, and click on C:/kmurphy/pmtk3, and also C:/kmurphy/pmtkData. More information about Matlab filing system issues can be found at <http://people.cs.ubc.ca/~murphyk/Software/matlabTutorial/html/files.html>.

6. Check everything works by typing `knnClassifyDemo`. It should produce a bunch of pretty figures.
7. Open up `knnClassifyDemo` in the Matlab editor by typing

Listing 2: Opening a file

```
edit(knnClassifyDemo)
```

8. Start doing homework 1.