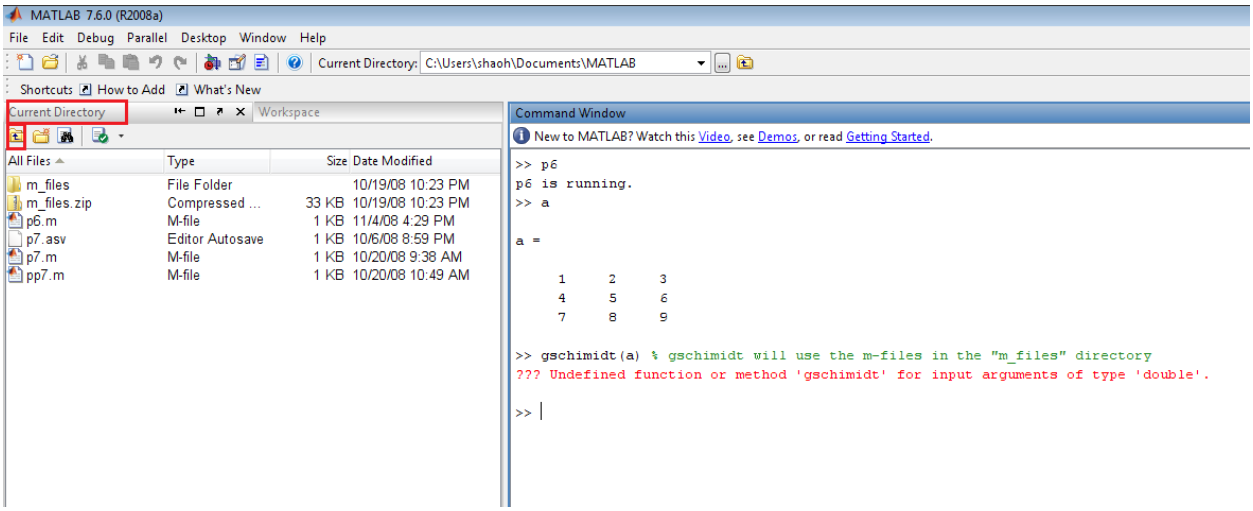
How to use the m-files?

There is a basic idea of using m-files in Matlab. That is : the m-files written by you (and you want to use it) should be in the **current directory**. (see the graph below to understand what is a current directory)



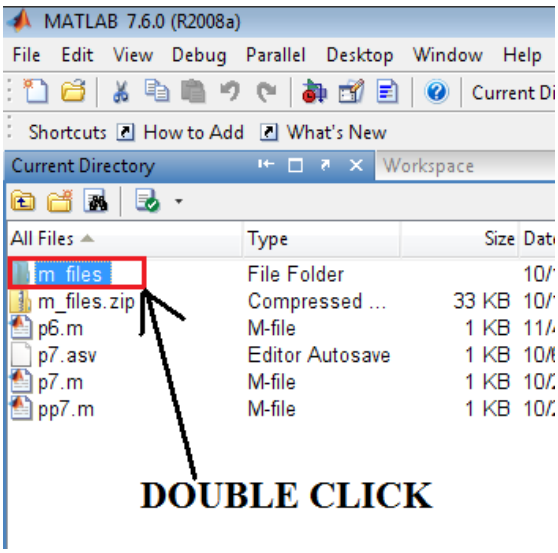
So under this situation, you can run p6.m, but you cannot run the m-files in the “m_files” directory such as gschmidt. (see the command window above)

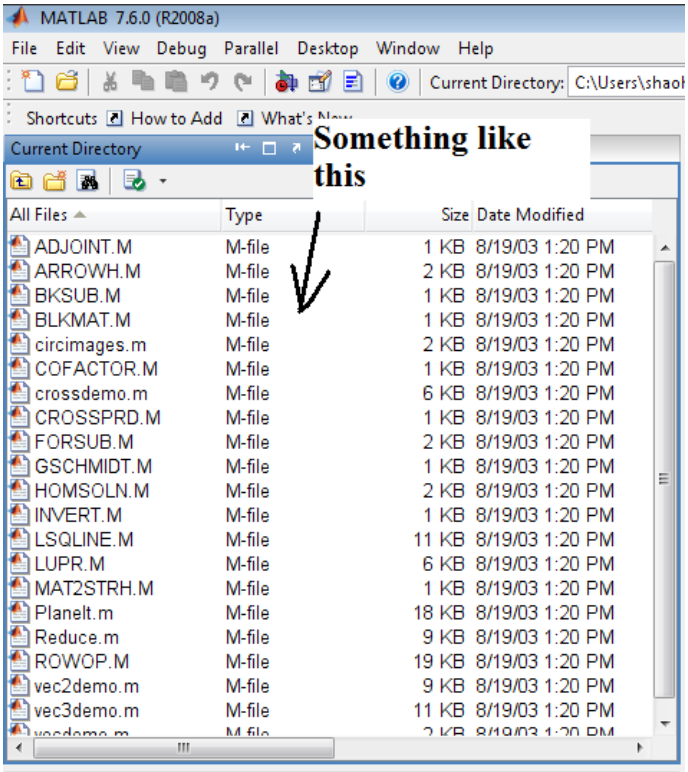
How to change the currect directory?

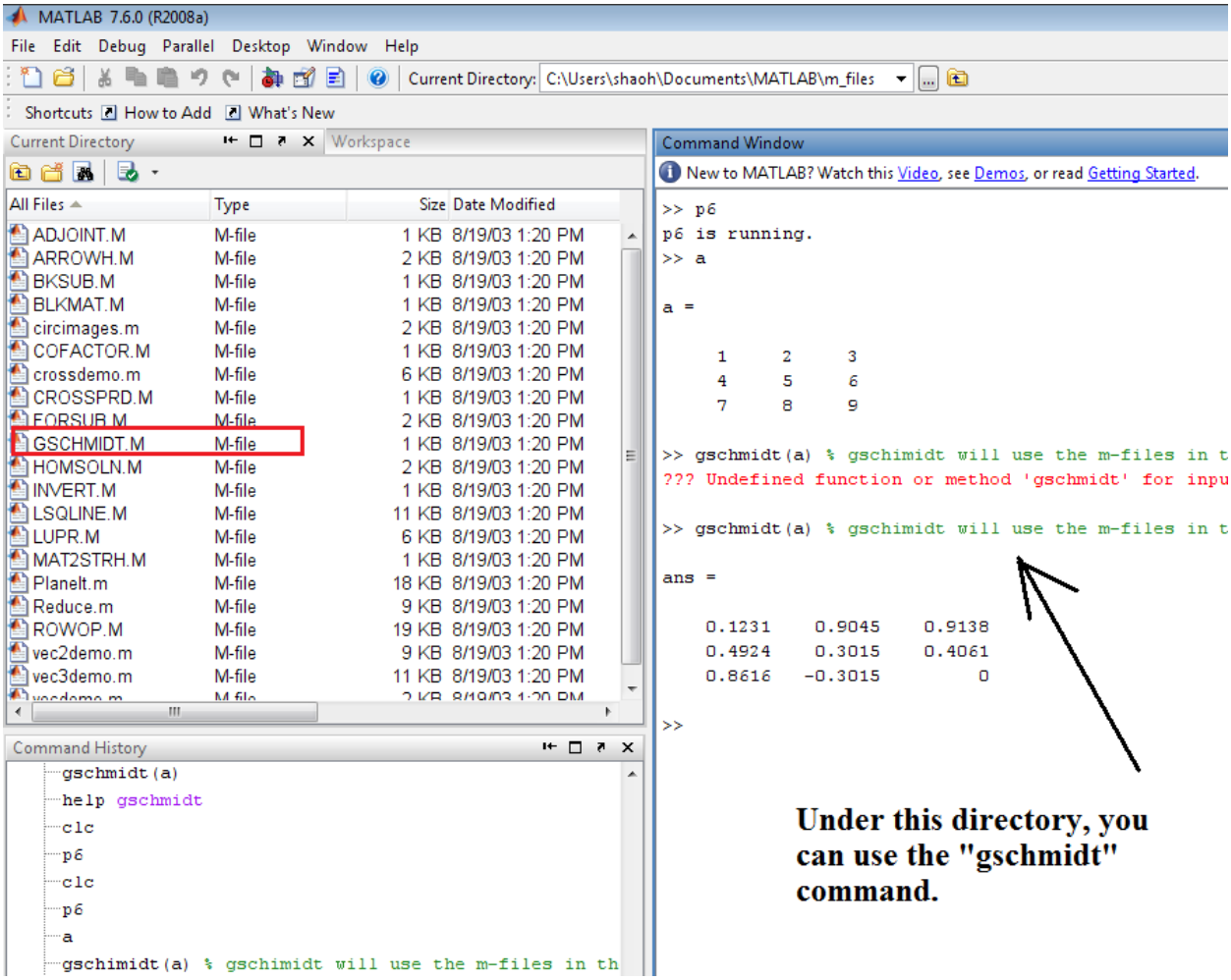
If you are using a graphic Matlab interface

You can double click the directory you want to enter or click the “go to up level” button to go to the upper directory. So if you want to use the m-files in the

“m_files” directory, you just double click the “m_files” directory and enter it, then you can use them. (see graphs below)







Then you can use the “help gschmidt” to see the help information and “gschmidt(a)” to use it.

If you are not using a graphic Matlab interface

If you are not using the graphic Matlab interface, that means, you can only see some window like this:

```
>> b = [1 2 3]

b =

     1     2     3

>>
```

You can use the “ls” “cd ” “cd ..” “cd some_directory” to change the current directory, just like in Linux terminal.

“ls” list the files and directories in current directory.

“cd ” (notice there is a space at the end) : go up one level

“cd ..” : go to the root directory

“cd some_directory” : enter that directory which is in currect directory

Here is an example.

```
>> b = [1 2 3]

b =

     1     2     3

>> p6
p6 is running.
>> help gschmidt

gschmidt not found.

Use the Help browser Search tab to search the documentation, or
type "help help" for help command options, such as help for methods.

>> ls

.            m_files      p6.m         p7.m
..           m_files.zip  p7.asv       pp7.m

>> cd m_files
>> ls

.             BKSUB.M       FORSUB.M      LSQLINE.M     ROWOP.M       vec2demo.m
..            BLKMAT.M      GSCHMIDT.M    LUPR.M        Reduce.m      vec3demo.m
ADJOINT.M     COFACTOR.M    HOMSOLN.M     MAT2STRH.M    circimages.m  vecdemo.m
ARROWH.M      CROSSPRD.M    INVERT.M      Planelt.m     crossdemo.m

>> help gschmidt
 GSCHMIDT  The Gram-Schmidt process on the columns in matrix
           x. The orthonormal basis appears in the columns of y
           unless there is a second argument in which case y
           contains only an orthogonal basis. The second argument
           can have any value.

           Use in the form  ==> y = gschmidt(x)  <==  or
                            ==> y = gschmidt(x,v)  <==

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>>
```

First you want to run “help gschmidt”. But there is no such m-file in this directory, so an error occurs.

Then you use “ls” to check the current directory, and find that the gschmidt m-file may be in the “m_files” sub-directory.

You use “cd m-files” to enter the “m-files” sub-directory.

You use “ls” to check what’s in current directory now.

You run “help gschmidt” and get what you want.