

Requirements

Run natively in Matlab, version 2010b or greater is required.

Run as MCR application, the following are required:

- Linux (64-bit) OS is required (Tested on latest release of Ubuntu and Scientific Linux)
- MCR installer (http://munsellb.people.cofc.edu/matlab_mcr/MyAppInstaller_mcr.install)

Note: The MCR application (i.e. all the libraries required to run an instance of Matlab) will be installed in the /usr/local folder.

▸ Install Steps

Basic installation Steps to run as MCR application.

First install the MCR libraries (see URL above), then open a bash shell and cd into the NLM_PR_CHALLENGE directory, and create a symbolic link

```
ln -s ./exe/showmethepills.sh showmethepills.sh
```

Lastly, set the read/write/execute bits as follows

```
chmod 775 ./exe/showmethepills.sh
```

▸ Run in Matlab

Add the required files and folders to the Matlab path. From the matlab command prompt run

```
setmenv;
```

Note: this script is only executed once and must be done before any other script is executed! Otherwise, the remaining steps will produce file not found errors.

From the Matlab command prompt then run:

```
showmethepills( 'data/dr', 'data/dc' );
```

Where the first argument is the path (full or relative) to the directory that contains the reference pill images, and the second argument is the path to the directory that contains that consumer pill images.

For more information about this script, type "help showmethepills" at the matlab command prompt.

↳ **Run as MCR Application**

From the bash shell command prompt run the script:

```
./showmethepills.sh 'NLM_PR_CHALLENGE/data/dr' 'NLM_PR_CHALLENGE/data/dc'
```

Where the first argument is the full path to the directory that contains the reference pill images, and the second argument is the path to the directory that contains that consumer pill images. The NLM_PR_CHALLENGE is the root folder of the project.