

1. Install python 2.7.
2. Add python to system environment variable.
2. Install python poster library.
3. Unzip *cuffdiff2links.zip*.
4. Open command window and go to the directory where *cuffdiff2links.py* is placed.
5. In the command line, type: *python cuffdiff2links.py file/folder_path*. The *file/folder_path* should be absolute path. If the file or folder is in the current directory, you can just type the file or folder name. If the *file/folder_path* is void, the script will find all the .diff files in current directory.
6. The result is in an *EnrichrLinks* folder located in the same directory as processed .diff files.

```

C:\WINDOWS\system32\cmd.exe
C:\Documents and Settings\Qiaonan\My Documents\Google Drive\work\cuffdiff2links
2>dir
Volume in drive C has no label.
Volume Serial Number is 703C-EDEA

Directory of C:\Documents and Settings\Qiaonan\My Documents\Google Drive\work\cuffdiff2links 2

03/06/2013  10:04 AM    <DIR>          .
03/06/2013  10:04 AM    <DIR>          ..
03/06/2013  10:17 AM    <DIR>          cuffdiff2links
03/06/2013  10:23 AM             6,982 cuffdiff2links.py
03/06/2013  10:03 AM    <DIR>          EnrichrLinks
12/18/2012  06:12 PM             8,861 example.diff
01/14/2013  04:05 PM              84 go.py
03/04/2013  12:11 PM              111 log.txt
03/04/2013  02:14 PM        2,574,864 P4P6_gene_exp.diff
03/04/2013  05:18 PM        2,640,150 P4P7_gene_exp_stingent.diff
01/08/2013  02:33 PM              805 readme.txt
              7 File(s)        5,231,857 bytes
              4 Dir(s)        68,091,129,856 bytes free

C:\Documents and Settings\Qiaonan\My Documents\Google Drive\work\cuffdiff2links
2>python cuffdiff2links.py C:\diff_files\P4P6_gene_exp.diff

Processing:C:\diff_files\P4P6_gene_exp.diff
"Meg3,Mir1906-1,Mir770" is not a valid gene symbol and converted to "Meg3"

C:\Documents and Settings\Qiaonan\My Documents\Google Drive\work\cuffdiff2links
2>python cuffdiff2links.py C:\diff_files

Processing:C:\diff_files\example.diff

Processing:C:\diff_files\P4P6_gene_exp.diff
"Meg3,Mir1906-1,Mir770" is not a valid gene symbol and converted to "Meg3"

C:\Documents and Settings\Qiaonan\My Documents\Google Drive\work\cuffdiff2links
2>_

```

Figure 1. (1) *cuffdiff2links.py* must be in current directory. (2) Command to process a single .diff file. (3) Command to process all the .diff files in a folder (Include .diff files in all subfolders).

Appendix (For Windows):

I. How to add python to system environment variables:

<http://www.katsbits.com/tutorials/blender/setting-up-windows-python-path-system-variable.php>

II. How to install poster library:

1. Install easy_install python package.

Go to website: <https://pypi.python.org/pypi/setuptools>

On the webpage, select proper file and download.

File	Type	Py Version	Uploaded on	Size	# downloads
setuptools-0.6c11-1.src.rpm (md5) built for redhat 4.3	RPM	any	2009-10-20	263KB	45919
setuptools-0.6c11-py2.3.egg (md5)	Python Egg	2.3	2009-10-20	1MB	21582
setuptools-0.6c11-py2.4.egg (md5)	Python Egg	2.4	2009-10-20	329KB	297287
setuptools-0.6c11-py2.5.egg (md5)	Python Egg	2.5	2009-10-20	325KB	565849
setuptools-0.6c11-py2.6.egg (md5)	Python Egg	2.6	2009-10-20	325KB	1746924
setuptools-0.6c11-py2.7.egg (md5)	Python Egg	2.7	2010-07-08	324KB	2007323
setuptools-0.6c11.tar.gz (md5)	Source		2009-10-20	250KB	433050
setuptools-0.6c11.win32-py2.3.exe (md5)	MS Windows installer	2.3	2009-10-20	218KB	17920
setuptools-0.6c11.win32-py2.4.exe (md5)	MS Windows installer	2.4	2009-10-20	222KB	10171
setuptools-0.6c11.win32-py2.5.exe (md5)	MS Windows installer	2.5	2009-10-20	222KB	57996
setuptools-0.6c11.win32-py2.6.exe (md5)	MS Windows installer	2.6	2009-10-20	222KB	174578
setuptools-0.6c11.win32-py2.7.exe (md5)	MS Windows installer	2.7	2010-07-08	222KB	407190

Install the downloaded file. Then there should be a *Scripts* folder in your python directory (Figure 2).

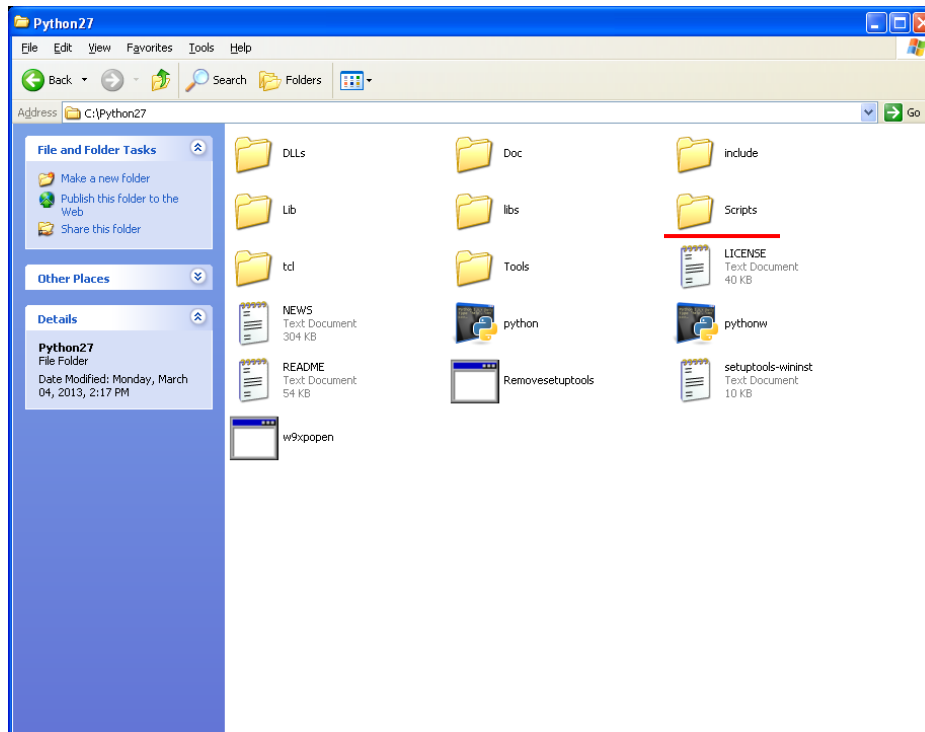


Figure 2.

2. Install poster library using easy_install.

Open windows command line and go to the *Scripts* folder mentioned above.

In the command line, type *easy_install poster* and press Enter (Figure 3)

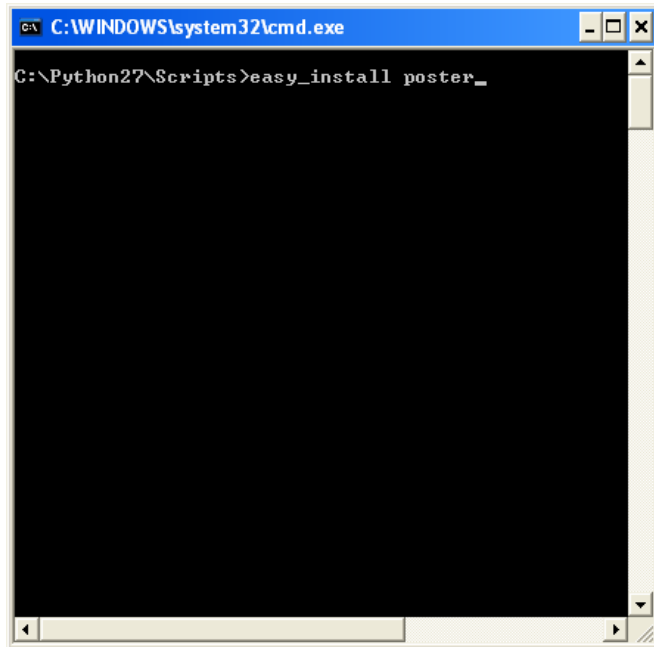


Figure 3.

Then poster library should be installed.