Run Python from Command Line Examples, And Run Command Line from Inside Python

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Contents

1 Python Command Line

Go to the **RMD**, **PDF**, or **HTML** version of this file. Go back to fan's Python Code Examples Repository (bookdown site).

1.1 Run Command Line from Inside Python

Use subprocess, where is python:

```python
import subprocess
cmd_popen = subprocess.Popen(["where", "python"],
                             stdin=subprocess.PIPE,
                             stdout=subprocess.PIPE,
                             stderr=subprocess.PIPE)
output, err = cmd_popen.communicate()
print(output.decode('utf-8'))
```

```
## C:\ProgramData\Anaconda3\envs\wk_pyfan\python.exe
## C:\ProgramData\Anaconda3\python.exe
## C:\Users\fan\.windows-build-tools\python27\python.exe
## C:\Users\fan\AppData\Local\Microsoft\WindowsApps\python.exe
## C:\Program Files\Inkscape\python.exe
```

Command line file redirection symbol,

```python
# The > command line sends current console output to file.txt
# cd "C:\users\fan"
# ls > ls_files.txt
# rm ls_files.txt
import os
import subprocess

# ls in current location
cmd_ls = subprocess.Popen(["ls"], stdin=subprocess.PIPE, stdout=subprocess.PIPE, stderr=subprocess.PIPE)
stf_out_cmd_ls, err = cmd_ls.communicate()
```

```
stf_out_cmd_ls = stf_out_cmd_ls.decode('utf-8')
print(stf_out_cmd_ls)

## _file
## _m
## fp_command.Rmd
## fp_command_mod.Rmd
## fp_matlab.Rmd
## htmlpdfr
## main.Rmd

srt_file_tex = "_file/"
sna_file_tex = "test_ls_pyfanvig_stdout"
srn_file_tex = srt_file_tex + sna_file_tex + ".txt"
fl_tex_contents = open(srn_file_tex, 'w')
fl_tex_contents.write(stf_out_cmd_ls)

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fl_tex_contents.close()
```

1.2 Execute Command Line Python Functions

- run python from command line
- run python function with parameters from command line

Here run python from command line inside python itself.

```
# Run:
from py.fan.util.rmd.mattexmd import fp_mlxtex2md
fp_mlxtex2md(spt_root='C:/Users/fan/Math4Econ/matrix_application/', ls_srt_subfolders=None, st_rglob_te
```

```
# Run:
python -c "from pyfan.util.rmd.mattexmd import fp_mlxtex2md; fp_mlxtex2md(spt_root='C:/Users/fan/Math4Ec
```