

Run System and Shell Commands in R

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1 Shell and System Commands

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1.1 Basic Shell Commands

Run basic shell commands in windows:

```
# detect current path
print(toString(shell(paste0("echo %cd%"), intern=TRUE)))
```

```
## [1] "C:\\Users\\fan\\R4Econ\\development\\system"
```

```
# Show directory
print(toString(shell(paste0("dir"), intern=TRUE)))
```

```
## [1] " Volume in drive C has no label., Volume Serial Number is 024A-FEC0, , Directory of C:\\Users\\
```

1.2 Run Python Inside a Conda Environment

Use shell rather than system to activate a conda environment, check python version:

```
# activate conda env
print(toString(shell(paste0("activate base & python --version"), intern=TRUE)))
```

```
## [1] "Python 3.7.9"
```

Activate conda env and run a line:

```
spg_runpython <- paste0("activate base &",
  "python --version &",
  "python -c ",
  "\"st_var='this is string var';",
  "print(f'{st_var}');",
  "\"")
print(toString(shell(spg_runpython, intern=TRUE)))
```

```
## [1] "Python 3.7.9, this is string var"
```