

Subprocess with Style!

Amit Kumar 💟 @iaktech

LIGHTNING TALK

- spawn new processes
- connect to their I/P,O/P,error pipes
- obtain their return codes

Goal: intended to replace the following

- os.system()
- os.spawn*()
- os.popen*()
- popen2.*()
- commands.*()



Goal:



Goal: To replace subprocess module!

Lets See What Subprocess does

Lets See What Subprocess does

AND HOW IT DOES IT!

Examples

To run terminal commands:

```
# Run command line instruction
subprocess.call(['ls -la'])
```

Examples

To run terminal commands:

```
# Run command line instruction
subprocess.call(['ls -la'])

# Check output of the command
subprocess.check output(['ls', 'la'])
```

Examples

To run terminal commands:

```
# Run command line instruction
subprocess.call(['ls -la'])

# Check output of the command
subprocess.check_output(['ls', 'la'])

# To Status code of the command
subprocess.check_call('ls')
```

Examples

Running a Process

Examples

Killing a Process

```
# Use OS module
import os
os.kill(process.pid)
```

Examples

Running process using sudo

Examples

Timeout a process

No such functionality exists!

TO THE RESCUE!



TO THE RESCUE!

Run command, Check output, Get Status Code

```
# Run Command
>> current_path = soldier.run('pwd')
# Get output
>> print(current_path.output)
/home/pythonista
# Get Status Code
>> print(current_path.status_code)
0
```

TO THE RESCUE!

Run process, Get process ID, Kill process

```
# Run firefox process
>> firefox_proc = soldier.run('firefox', background=True)
# Get pid of firefox process
>> print(firefox_proc.pid)
18673
# Kill firefox
>> firefox_proc.kill()
>> firefox_proc.is_alive()
>> False
```

TO THE RESCUE!

Run a sudo command

>> soldier.run('service nginx start', sudo='my password')

TO THE RESCUE!

Set Timeouts

by Yash Mehrotra



- https://github.com/yashmehrotra/soldier
- http://soldier.readthedocs.io/en/latest/usage/

Thank You!

