
CmdFlow Documentation

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CONTENTS

1	cmdflow	3
2	Indices and tables	5
	Python Module Index	7

A simple wrapper for creating shell pipelines inside python scripts

Theoretically, this can be used across platforms, but there are a few conventions which do not translate well to Windows; i.e. *sudo* is difficult in a system that does not use multiple simultaneous users.

CMDFLOW

Collection of classes making up *cmdflow*. The main interface is *ShellCmd*.

To build a pipeline:

```
>>> pipeline = ShellCmd("echo 'foo'") | ShellCmd("grep 'f'")
>>> print pipeline
foo
```

class *cmdflow.Path* (*pathname*)

Provides some methods for building paths. A nice feature is the ability to combine additional *Path* objects and/or strings to build a final path. Joining modifies the original *Path*. For example:

```
Path("/usr/local") / "bin" / "foo"
```

__init__ (*pathname*)

Initialize a Path object:

```
Path("/usr/local/")
```

Parameters *pathname* (*string*) – named path

unlink ()

Remove the path from the Filesystem

class *cmdflow.ShellOutput*

Manager of output from an executed *cmdflow* pipeline. Currently this can only redirect from the *ShellCmd*'s stdout to a file.

redirect (*path_out*)

Parameters *path_out* – filesystem path to direct into

class *cmdflow.ShellCmd* (*cmd*, *env=None*)

This is a wrapper on Popen to help make building pipelines of commands easier. The convenience syntax of '|' is reminiscent of regular shell semantics but it is a bit different. In this case you must explicitly call the resulting object

__init__ (*cmd*, *env=None*)

Initialize a ShellCmd:

```
ShellCmd("echo 'hello'")
```

Parameters

- **cmds** – commands to run

- **env** (*dict*) – environment in which to run commands

pipe (*b*)

Allows ShellCmd objects to feed input into each other in a style similar to shell pipelines

Parameters **b** (*ShellCmd*) – command to append to ShellCmd.cmds

run (*stdin=()*)

Being running *ShellCmd* pipeline

Parameters **stdin** (*str or ShellCmd*) – Passed into stdin in *Popen*'s initializer

Return type *ShellOutput*

INDICES AND TABLES

- *genindex*
- *modindex*
- *search*

PYTHON MODULE INDEX

C

`cmdflow`, 1