

:mod:`pipes` --- Interface to shell pipelines

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library]pipes.rst, line 1); [backlink](#)

Unknown interpreted text role "mod".

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Unknown directive type "module".

```
.. module:: pipes
   :platform: Unix
   :synopsis: A Python interface to Unix shell pipelines.
   :deprecated:
```

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Unknown directive type "sectionauthor".

```
.. sectionauthor:: Moshe Zadka <moshez@zadka.site.co.il>
```

Source code: :source:`Lib/pipes.py`

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Unknown interpreted text role "source".

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Unknown directive type "deprecated".

```
.. deprecated:: 3.11
   The :mod:`pipes` module is deprecated (see :pep:`594` for details).
```

The :mod:`pipes` module defines a class to abstract the concept of a *pipeline* --- a sequence of converters from one file to another.

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Unknown interpreted text role "mod".

Because the module uses :program:`/bin/sh` command lines, a POSIX or compatible shell for :func:`os.system` and :func:`os.popen` is required.

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Unknown interpreted text role "program".

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Unknown interpreted text role "func".

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Unknown interpreted text role "func".

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Unknown directive type "availability".

```
.. availability:: Unix. Not available on VxWorks.
```

The `mod:'pipes'` module defines the following class:

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Unknown interpreted text role "mod".

An abstraction of a pipeline.

Example:

```
>>> import pipes
>>> t = pipes.Template()
>>> t.append('tr a-z A-Z', '--')
>>> f = t.open('pipefile', 'w')
>>> f.write('hello world')
>>> f.close()
>>> open('pipefile').read()
'HELLO WORLD'
```

Template Objects

Template objects following methods:

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Unknown directive type "method".

```
.. method:: Template.reset()

    Restore a pipeline template to its initial state.
```

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Unknown directive type "method".

```
.. method:: Template.clone()

    Return a new, equivalent, pipeline template.
```

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Unknown directive type "method".

```
.. method:: Template.debug(flag)

    If *flag* is true, turn debugging on. Otherwise, turn debugging off. When
    debugging is on, commands to be executed are printed, and the shell is given
    ``set -x`` command to be more verbose.
```

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Unknown directive type "method".

```
.. method:: Template.append(cmd, kind)
```

Append a new action at the end. The `*cmd*` variable must be a valid bourne shell command. The `*kind*` variable consists of two letters.

The first letter can be either of `''-''` (which means the command reads its standard input), `''f''` (which means the commands reads a given file on the command line) or `''.''` (which means the commands reads no input, and hence must be first.)

Similarly, the second letter can be either of `''-''` (which means the command writes to standard output), `''f''` (which means the command writes a file on the command line) or `''.''` (which means the command does not write anything, and hence must be last.)

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Unknown directive type "method".

```
.. method:: Template.prepend(cmd, kind)
```

Add a new action at the beginning. See `:meth:`append`` for explanations of the arguments.

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Unknown directive type "method".

```
.. method:: Template.open(file, mode)
```

Return a file-like object, open to `*file*`, but read from or written to by the pipeline. Note that only one of `''r''`, `''w''` may be given.

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Unknown directive type "method".

```
.. method:: Template.copy(infile, outfile)
```

Copy `*infile*` to `*outfile*` through the pipe.