
snakescale

Release 0.8.0

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```
pip install 'snakescale[full]'
```


- Non-strict wrappers for the data pipelining language Snakemake

1.1 API Reference

`snakescale.available_tools` (*version: str = 'latest'*) → List[str]

`snakescale.available_subtools` (*tool: str, version: str = 'latest'*) → Optional[List[str]]

`snakescale.scale` (*tool: str, subtool: Optional[str] = None, version: str = 'latest', as_uri: bool = True*) → str

`snakescale.formatters.clean_picard_style_value` (*value: Union[List[str], str]*) → Union[List[str], str]

Clean a dictionary of Picard key-value pairs.

`snakescale.formatters.snakecase_to_kebab_case` (*key: str*) → str

Convert snake_case to kebab-case.

`snakescale.formatters.clean_picard_style_key` (*key: str*) → str

Clean a Picard parameter key.

`snakescale.formatters.format_bedtools_params` (*params: Mapping*) → str

Clean a dictionary of bedtools key-value pairs.

`snakescale.formatters.format_bwa_params` (*params: Mapping*) → str

Clean a dictionary of bwa key-value pairs.

`snakescale.formatters.format_dwgsim_params` (*params: Mapping*) → str

Clean a dictionary of dwgsim key-value pairs.

`snakescale.formatters.format_fgbio_params` (*params: Mapping*) → str

Clean a dictionary of fgbio key-value pairs.

`snakescale.formatters.format_kraken_params` (*params: Mapping*) → str

Clean a dictionary of kraken key-value pairs.

`snakescale.formatters.format_picard_params` (*params: Mapping*) → str
Clean a dictionary of picard key-value pairs.

`snakescale.resources.collect_jvm_resources` () → str
Collect JVM resources allocations the resource dictionary.

`snakescale.resources.collect_picard_style_jvm_resources` () → str
Collect Picard specific JVM resources allocations the resource dictionary.

class `snakescale.utils.ExitCode`
Bases: `int`

The code returned to a parent process by an executable.

Examples

```
>>> from subprocess import call
>>> exit_code = ExitCode(call('ls'))
>>> exit_code.is_ok()
True
```

`is_ok` () → bool
Is this code zero.

class `snakescale.utils.ProcessReturn`
Bases: `tuple`

A collection of STDOUT, STDERR, and exit code from a terminated process.

stdout
Alias for field number 0

stderr
Alias for field number 1

exit_code
Alias for field number 2

`_asdict` ()
Return a new OrderedDict which maps field names to their values.

classmethod `_make` (*iterable, new=<built-in method __new__ of type object at 0x886c00>, len=<built-in function len>*)
Make a new ProcessReturn object from a sequence or iterable

`_replace` (***kws*)
Return a new ProcessReturn object replacing specified fields with new values

`snakescale.utils.call_snakemake` (*arguments: str*) → `snakescale.utils.ProcessReturn`
Call Snakemake in this thread as if we are using the CLI.

Parameters `arguments` – A string of arguments to pass to Snakemake.

Examples

```
>>> process_return = call_snakemake('')
>>> process_return.exit_code.is_ok()
False
```

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```
>>> process_return.stderr.strip()
'Error: Snakefile "Snakefile" not present.'
```

`snakescale.testing.run_tool_test` (*tool: str, subtool: Optional[str] = None, version: str = 'latest'*) → `snakescale.utils.ProcessReturn`
Execute a tool and optional subtool test against a specific wrapper version.

1.2 How to Contribute

Pull requests, feature requests, and issues welcome!

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