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*

`utils``

Utility functions.

Functions#

``unix_path_to_win``(path[, root_prefix]) | Convert a path or `:-`-separated string of paths into a Windows representation

---|---

``win_path_to_cygwin``(path) |

``cygwin_path_to_win``(path) |

``translate_stream``(stream, translator) |

``human_bytes``(n) | Return the number of bytes n in more human readable form.

``sys_prefix_unfollowed``() | Since conda is installed into non-root environments as a symlink only

``quote_for_shell``(*arguments) | Properly quote arguments for command line passing.

``massage_arguments``(arguments[, errors]) |

``wrap_subprocess_call``(root_prefix, prefix, dev_mode, ...) |

``get_comspec``() | Returns COMSPEC from envvars.

``ensure_dir_exists` (func)` | Ensures that the directory exists for functions returning

Attributes#

``_UNIX_SHELL_BASE`` |

---|---

``_MSYS2_SHELL_BASE`` |

``_SHELLS`` |

``_RE_UNSAFE`` |

`unix_path_to_win(_path_ , _root_prefix = "_")#`

Convert a path or :-separated string of paths into a Windows representation

Does not add cygdrive. If you need that, set `root_prefix` to `"/cygdrive"`

`win_path_to_cygwin(_path_)#`

`cygwin_path_to_win(_path_)#`

`translate_stream(_stream_ , _translator_)#`

```
human_bytes(_n_)#
```

Return the number of bytes n in more human readable form.

Examples

```
>>> human_bytes(42)
```

```
'42 B'
```

```
>>> human_bytes(1042)
```

```
'1 KB'
```

```
>>> human_bytes(10004242)
```

```
'9.5 MB'
```

```
>>> human_bytes(100000004242)
```

```
'93.13 GB'
```

```
_UNIX_SHELL_BASE#
```

`_MSYS2_SHELL_BASE#`

`_SHELLS#`

`sys_prefix_unfollowed()#`

Since conda is installed into non-root environments as a symlink only and because `sys.prefix` follows symlinks, this function can be used to get the 'unfollowed' `sys.prefix`.

This value is usually the same as the prefix of the environment into which conda has been symlinked. An example of when this is necessary is when conda looks for external sub-commands in `find_commands.py`

`quote_for_shell(_* arguments_)#`

Properly quote arguments for command line passing.

For POSIX uses `shlex.join`, for Windows uses a custom implementation to

properly escape metacharacters.

Parameters:

****arguments**** ([_list_](https://docs.python.org/3/library/stdtypes.html#list
"(in Python v3.13\))" _of_
str](https://docs.python.org/3/library/stdtypes.html#str "(in Python
v3.13\))) -- Arguments to quote.

Returns:

Quoted arguments.

Return type:

[str](https://docs.python.org/3/library/stdtypes.html#str "(in Python
v3.13\))")

_RE_UNSAFE#

```
message_arguments(_arguments_ , _errors ='assert'_)#
```

```
wrap_subprocess_call(_root_prefix_ , _prefix_ , _dev_mode_ ,  
_debug_wrapper_scripts_ , _arguments_ , _use_system_tmp_path =False_)#
```

```
get_comspec()#
```

Returns COMSPEC from envvars.

Ensures COMSPEC envvar is set to cmd.exe, if not attempt to find it.

Raises:

```
[**KeyError**](https://docs.python.org/3/library/exceptions.html#KeyError  
"(in Python v3.13\)" ) \-- COMSPEC is undefined and cannot be found.
```

Returns:

COMSPEC value.

Return type:

[str](<https://docs.python.org/3/library/stdtypes.html#str> "(in Python v3.13\))")

ensure_dir_exists(_func_)#

Ensures that the directory exists for functions returning a Path object containing a directory

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- * Functions

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- * ``win_path_to_cygwin()``

- * ``cygwin_path_to_win()``

- * ``translate_stream()``

- * ``human_bytes()``

- * ``_UNIX_SHELL_BASE``
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Created using [Sphinx](https://www.sphinx-doc.org/) 7.4.7.

[[Analytics Dashboard](https://docs-conda-io.goatcounter.com)](https://docs-conda-io.goatcounter.com "Analytics Dashboard")

Built with the [PyData Sphinx Theme](https://pydata-sphinx-theme.readthedocs.io/en/stable/index.html) 0.15.4.