# Path Utilities (bpy.path)

This module has a similar scope to os.path, containing utility functions for dealing with paths in Blender.

# bpy.path.abspath(path, \*, start=None, library=None)

Returns the absolute path relative to the current blend file using the "//" prefix.

# **PARAMETERS:**

- start (str | bytes) Relative to this path, when not set the current filename is used.
- library (bpy.types.Library) The library this path is from. This is only included for convenience, when the library is not None its path replaces start.

# **RETURNS:**

The absolute path.

#### **RETURN TYPE:**

str

# bpy.path.basename(path)

Equivalent to os.path.basename, but skips a "//" prefix.

Use for Windows compatibility.

# **RETURNS:**

The base name of the given path.

# **RETURN TYPE:**

str

# bpy.path.clean\_name(name, \*, replace='\_')

Returns a name with characters replaced that may cause problems under various circumstances, such as writing to a file.

All characters besides A-Z/a-z, 0-9 are replaced with "\_" or the replace argument if defined.

# **PARAMETERS:**

- name  $(str \mid bytes)$  The path name.
- replace (str) The replacement for non-valid characters.

#### **RETURNS:**

The cleaned name.

# **RETURN TYPE:**

# bpy.path.display\_name(name, \*, has\_ext=True, title\_case=True)

Creates a display string from name to be used menus and the user interface. Intended for use with filenames and module names.

# **PARAMETERS:**

- name (str) The name to be used for displaying the user interface.
- has ext (bool) Remove file extension from name.
- **title case** (*bool*) Convert lowercase names to title case.

# **RETURNS:**

The display string.

# **RETURN TYPE:**

str

Performs the reverse of display name using literal versions of characters which aren't supported in a filepath.

#### **PARAMETERS:**

**name** (*str*) – The display name to convert.

# **RETURNS:**

The file path.

# **RETURN TYPE:**

str

# bpy.path.display\_name\_from\_filepath(name)

Returns the path stripped of directory and extension, ensured to be utf8 compatible.

# **PARAMETERS:**

**name** (str) – The file path to convert.

# **RETURNS:**

The display name.

# **RETURN TYPE:**

str

# bpy.path.ensure\_ext(filepath, ext, \*, case\_sensitive=False)

Return the path with the extension added if it is not already set.

# **PARAMETERS:**

- **filepath** (*str*) The file path.
- ext (str) The extension to check for, can be a compound extension. Should start with a dot, such as '.blend' or '.tar.gz'.
- case\_sensitive (bool) Check for matching case when comparing extensions.

#### **RETURNS:**

The file path with the given extension.

# **RETURN TYPE:**

str

# bpy.path.is\_subdir(path, directory)

Returns true if path in a subdirectory of directory. Both paths must be absolute.

# **PARAMETERS:**

```
path (str | bytes) – An absolute path.
```

# **RETURNS:**

Whether or not the path is a subdirectory.

# **RETURN TYPE:**

bool

# bpy.path.module\_names(path, \*, recursive=False, package=")

Return a list of modules which can be imported from path.

# **PARAMETERS:**

- path (str) a directory to scan.
- recursive (bool) Also return submodule names for packages.
- package (str) Optional string, used as the prefix for module names (without the trailing ".").

#### **RETURNS**:

```
a list of string pairs (module_name, module_file).
```

#### RETURN TYPE:

list[str]

# bpy.path.native pathsep(path)

Replace the path separator with the systems native os.sep.

#### **PARAMETERS:**

**path** (str) – The path to replace.

# **RETURNS:**

The path with system native separators.

# **RETURN TYPE:**

str

# bpy.path.reduce dirs(dirs)

Given a sequence of directories, remove duplicates and any directories nested in one of the other paths. (Useful for recursive path searching).

# **PARAMETERS:**

**dirs** (Sequence[str]) – Sequence of directory paths.

# **RETURNS:**

A unique list of paths.

# **RETURN TYPE:**

list[str]

# bpy.path.relpath(path, \*, start=None)

Returns the path relative to the current blend file using the "//" prefix.

# **PARAMETERS:**

- path (str | bytes) An absolute path.
- start (str | bytes) Relative to this path, when not set the current filename is used.

# **RETURNS:**

The relative path.

# **RETURN TYPE:**

str

# bpy.path.resolve ncase(path)

Resolve a case insensitive path on a case sensitive system, returning a string with the path if found else return the original path.

# **PARAMETERS:**

**path** (str) – The path name to resolve.

# **RETURNS:**

The resolved path.

# **RETURN TYPE:**

str

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