:mod:`pathlib` --- Object-oriented filesystem paths

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.. module:: pathlib
 :synopsis: Object-oriented filesystem paths

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.. versionadded:: 3.4

Source code: :source: Lib/pathlib.py

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.. index:: single: path; operations

This module offers classes representing filesystem paths with semantics appropriate for different operating systems. Path classes are divided between ref: pure paths <pure-paths>', which provide purely computational operations without I/O, and ref: concrete paths <concrete-paths>', which inherit from pure paths but also provide I/O operations.

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If you've never used this module before or just aren't sure which class is right for your task, 'class' Path' is most likely what you need. It instantiates a ref: concrete path < concrete-paths > for the platform the code is running on.

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Pure paths are useful in some special cases; for example:

If you want to manipulate Windows paths on a Unix machine (or vice versa). You cannot instantiate a :class: WindowsPath' when running on Unix, but you can instantiate :class: PureWindowsPath'.

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You want to make sure that your code only manipulates paths without actually accessing the OS. In this case, instantiating one of the pure classes may be useful since those simply don't have any OS-accessing operations.

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```

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:pep:`428`: The pathlib module -- object-oriented filesystem paths.

Unknown directive type "seealso".

.. seealso::

```
. seealso::
For low-level path manipulation on strings, you can also use the
:mod:`os.path` module.
```

Basic use

Importing the main class:

```
Listing subdirectories:

>>> p = Path('.')
>>> [x for x in p.iterdir() if x.is_dir()]
[PosixPath('.hg'), PosixPath('docs'), PosixPath('dist'),
    PosixPath('__pycache__'), PosixPath('build')]
```

Listing Python source files in this directory tree:

>>> from pathlib import Path

```
>>> list(p.glob('**/*.py'))
[PosixPath('test_pathlib.py'), PosixPath('setup.py'),
PosixPath('pathlib.py'), PosixPath('docs/conf.py'),
PosixPath('build/lib/pathlib.py')]
```

Navigating inside a directory tree:

```
>>> p = Path('/etc')
>>> q = p / 'init.d' / 'reboot'
>>> q
PosixPath('/etc/init.d/reboot')
>>> q.resolve()
PosixPath('/etc/rc.d/init.d/halt')
```

Querying path properties:

```
>>> q.exists()
True
>>> q.is_dir()
False
```

Opening a file:

```
>>> with q.open() as f: f.readline()
...
'#!/bin/bash\n'
```

Pure paths

Pure path objects provide path-handling operations which don't actually access a filesystem. There are three ways to access these classes, which we also call *flavours*:

A generic class that represents the system's path flavour (instantiating it creates either a :class:'PurePosixPath' or a :class:'PureWindowsPath'):

```
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```
>>> PurePath('setup.py')  # Running on a Unix machine PurePosixPath('setup.py')
```

Each element of pathsegments can be either a string representing a path segment, an object implementing the "class:" os. PathLike" interface which returns a string, or another path object:

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```
>>> PurePath('foo', 'some/path', 'bar')
PurePosixPath('foo/some/path/bar')
>>> PurePath(Path('foo'), Path('bar'))
PurePosixPath('foo/bar')
```

When pathsegments is empty, the current directory is assumed:

```
>>> PurePath()
PurePosixPath('.')
```

When several absolute paths are given, the last is taken as an anchor (mimicking :func.'os.path.join's behaviour):

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```
>>> PurePath('/etc', '/usr', 'lib64')
PurePosixPath('/usr/lib64')
>>> PureWindowsPath('c:/Windows', 'd:bar')
PureWindowsPath('d:bar')
```

However, in a Windows path, changing the local root doesn't discard the previous drive setting:

```
>>> PureWindowsPath('c:/Windows', '/Program Files')
PureWindowsPath('c:/Program Files')
```

Spurious slashes and single dots are collapsed, but double dots ('...') are not, since this would change the meaning of a path in the face of symbolic links:

```
>>> PurePath('foo//bar')
PurePosixPath('foo/bar')
>>> PurePath('foo/./bar')
PurePosixPath('foo/bar')
>>> PurePath('foo/../bar')
PurePosixPath('foo/../bar')
```

(a maÃ-ve approach would make PurePosixPath('foo/../bar') equivalent to PurePosixPath('bar'), which is wrong if foo is a symbolic link to another directory)

Pure path objects implement the 'class' os. PathLike' interface, allowing them to be used anywhere the interface is accepted.

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```
.. versionchanged:: 3.6
Added support for the :class:`os.PathLike` interface.
```

A subclass of :class: 'PurePath', this path flavour represents non-Windows filesystem paths:

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```
>>> PurePosixPath('/etc')
PurePosixPath('/etc')
```

pathsegments is specified similarly to :class:'PurePath'.

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A subclass of :class: 'PurePath', this path flavour represents Windows filesystem paths:

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```
>>> PureWindowsPath('c:/Program Files/')
PureWindowsPath('c:/Program Files')
```

 $path segments \ is \ specified \ similarly \ to \ : {\bf class:`PurePath`}.$

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Regardless of the system you're running on, you can instantiate all of these classes, since they don't provide any operation that does system calls.

General properties

Paths are immutable and hashable. Paths of a same flavour are comparable and orderable. These properties respect the flavour's case-folding semantics:

```
>>> PurePosixPath('foo') == PurePosixPath('FOO')
False
>>> PureWindowsPath('foo') == PureWindowsPath('FOO')
True
>>> PureWindowsPath('FOO') in { PureWindowsPath('foo') }
True
>>> PureWindowsPath('C:') < PureWindowsPath('d:')
True</pre>
```

Paths of a different flavour compare unequal and cannot be ordered:

```
>>> PureWindowsPath('foo') == PurePosixPath('foo')
False
>>> PureWindowsPath('foo') < PurePosixPath('foo')
Traceback (most recent call last):
File "<stdin>", line 1, in <module>
TypeError: '<' not supported between instances of 'PureWindowsPath' and 'PurePosixPath'
```

Operators

The slash operator helps create child paths, similarly to :func:'os.path.join':

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```
>>> p = PurePath('/etc')
PurePosixPath('/etc')
>>> p / 'init.d' / 'apache2'
>>> p / 'init.d' / 'apache2'
PurePosixPath('/etc/init.d/apache2')
>>> q = PurePath('bin')
>>> '/usr' / q
PurePosixPath('/usr/bin')
```

A path object can be used anywhere an object implementing :class:'os.PathLike' is accepted:

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```
>>> import os
>>> p = PurePath('/etc')
>>> os.fspath(p)
```

The string representation of a path is the raw filesystem path itself (in native form, e.g. with backslashes under Windows), which you can pass to any function taking a file path as a string:

```
>>> p = PurePath('/etc')
>>> str(p)
'/etc'
>>> p = PureWindowsPath('c:/Program Files')
>>> str(p)
'c:\\Program Files'
```

Similarly, calling :class: 'bytes' on a path gives the raw filesystem path as a bytes object, as encoded by :fime: 'os.fsencode':

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```
b'/etc'
```

Calling :class:'bytes' is only recommended under Unix. Under Windows, the unicode form is the canonical representation of filesystem paths.

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Accessing individual parts

To access the individual "parts" (components) of a path, use the following property:

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Unknown directive type "data".

```
.. data:: PurePath.parts
  A tuple giving access to the path's various components::
      >>> p = PurePath('/usr/bin/python3')
      >>> p.parts ('/', 'usr', 'bin', 'python3')
      >>> p = PureWindowsPath('c:/Program Files/PSF')
      >>> p.parts
('c:\\', 'Program Files', 'PSF')
   (note how the drive and local root are regrouped in a single part)
```

Methods and properties

```
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Unknown directive type "testsetup".

.. testsetup::

from pathlib import PurePath, PurePosixPath, PureWindowsPath
```

Pure paths provide the following methods and properties:

```
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Unknown directive type "data".

.. data:: PurePath.drive

A string representing the drive letter or name, if any::

>>> PureWindowsPath('c:/Program Files/').drive
'c:'

>>> PureWindowsPath('/Program Files/').drive
'''

UNC shares are also considered drives::

>>> PureWindowsPath('//host/share/foo.txt').drive
'\\\host\\share'
```

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Unknown directive type "data".

... data:: PurePath.root

A string representing the (local or global) root, if any::

```
A string representing the (local or global) root, if any::

>>> PureWindowsPath('c:/Program Files/').root
'\\'
>>> PureWindowsPath('c:Program Files/').root
''
>>> PurePosixPath('/etc').root
'/'

UNC shares always have a root::

>>> PureWindowsPath('//host/share').root
'\\'
```

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Unknown directive type "data".

```
.. data:: PurePath.anchor
The concatenation of the drive and root::
    >>> PureWindowsPath('c:/Program Files/').anchor
    'c:\\'
    >> PureWindowsPath('c:Program Files/').anchor
    'c:'
    >>> PurePosixPath('/etc').anchor
    '/'
    >>> PureWindowsPath('//host/share').anchor
    '\\\host\\share\\'
```

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Unknown directive type "data".

```
.. data:: PurePath.parents

An immutable sequence providing access to the logical ancestors of the path::

>>> p = PureWindowsPath('c:/foo/bar/setup.py')
>>> p.parents[0]
PureWindowsPath('c:/foo/bar')
>>> p.parents[1]
PureWindowsPath('c:/foo')
>>> p.parents[2]
PureWindowsPath('c:/')

.. versionchanged:: 3.10
The parents sequence now supports :term:`slices <slice>` and negative index values.
```

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Unknown directive type "data".

```
.. data:: PurePath.parent
The logical parent of the path::
    >>> p = PurePosixPath('/a/b/c/d')
    >>> p.parent
    PurePosixPath('/a/b/c')
You cannot go past an anchor, or empty path::
    >>> p = PurePosixPath('/')
    >>> p.parent
    PurePosixPath('/')
    >>> p = PurePosixPath('.')
    >>> p = PurePosixPath('.')
    >>> p = PurePosixPath('.')
    >>> p.parent
    PurePosixPath('.')
.. note::
    This is a purely lexical operation, hence the following behaviour::
    >>> p = PurePosixPath('foo/..')
    >>> p.parent
    PurePosixPath('foo')

If you want to walk an arbitrary filesystem path upwards, it is recommended to first call :meth: Path.resolve` so as to resolve symlinks and eliminate `".."` components.
```

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Unknown directive type "data".

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Unknown directive type "data".

```
.. data:: PurePath.suffix
The file extension of the final component, if any::
    >>> PurePosixPath('my/library/setup.py').suffix
    '.py'
    >>> PurePosixPath('my/library.tar.gz').suffix
    '.gz'
    >>> PurePosixPath('my/library').suffix
    ''.
```

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Unknown directive type "data".

```
.. data:: PurePath.suffixes
A list of the path's file extensions::
    >>> PurePosixPath('my/library.tar.gar').suffixes
['.tar', '.gar']
    >>> PurePosixPath('my/library.tar.gz').suffixes
['.tar', '.gz']
    >>> PurePosixPath('my/library').suffixes
[]
```

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Unknown directive type "data".

```
.. data:: PurePath.stem

The final path component, without its suffix::

>>> PurePosixPath('my/library.tar.gz').stem
'library.tar'
```

```
>>> PurePosixPath('my/library.tar').stem
'library'
>>> PurePosixPath('my/library').stem
'library'
```

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Unknown directive type "method".

```
.. method:: PurePath.as_posix()

Return a string representation of the path with forward slashes (``/``)::

>>> p = PureWindowsPath('c:\\windows')
>>> str(p)
   'c:\\windows'
>>> p.as_posix()
   'c:/windows'
```

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Unknown directive type "method".

```
.. method:: PurePath.as_uri()

Represent the path as a ``file`` URI. :exc:`ValueError` is raised if the path isn't absolute.

>>> p = PurePosixPath('/etc/passwd')
>>> p.as_uri()
   'file:///etc/passwd'
>>> p = PureWindowsPath('c:/Windows')
>>> p.as_uri()
   'file:///c:/Windows'
```

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Unknown directive type "method".

```
.. method:: PurePath.is_absolute()

Return whether the path is absolute or not. A path is considered absolute if it has both a root and (if the flavour allows) a drive::

>>> PurePosixPath('/a/b').is_absolute()
True
>>> PurePosixPath('a/b').is_absolute()
False

>>> PureWindowsPath('c:/a/b').is_absolute()
True
>>> PureWindowsPath('/a/b').is_absolute()
False
>>> PureWindowsPath('c:').is_absolute()
False
>>> PureWindowsPath('c:').is_absolute()
True
```

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Unknown directive type "method".

```
.. method:: PurePath.is_relative_to(*other)

Return whether or not this path is relative to the *other* path.

>>> p = PurePath('/etc/passwd')
>>> p.is_relative_to('/etc')
True
>>> p.is_relative_to('/usr')
False
.. versionadded:: 3.9
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main) (Doc) (library) pathlib.rst, line 480)

```
.. method:: PurePath.is_reserved()
With :class:`PureWindowsPath`, return ``True`` if the path is considered
reserved under Windows, ``False`` otherwise. With :class:`PurePosixPath`,
    ``False`` is always returned.
    >>> PureWindowsPath('nul').is_reserved()
    True
    >>> PurePosixPath('nul').is_reserved()
    False
```

File system calls on reserved paths can fail mysteriously or have unintended effects. $% \left(1\right) =\left(1\right) \left(1\right) +\left(1\right) \left(1\right) \left(1\right) +\left(1\right) \left(1\right)$

```
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Unknown directive type 'method''.

.. method:: PurePath.joinpath(*other)

Calling this method is equivalent to combining the path with each of the *other* arguments in turn::

>>> PurePosixPath('/etc').joinpath('passwd')
PurePosixPath('/etc/passwd')
>>> PurePosixPath('/etc').joinpath(PurePosixPath('passwd'))
PurePosixPath('/etc').joinpath('init.d', 'apache2')
PurePosixPath('/etc').joinpath('init.d', 'apache2')
>>> PureWindowsPath('c:').joinpath('/Program Files')
PureWindowsPath('c:')-Program Files')
```

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Unknown directive type "method".

```
.. method:: PurePath.match(pattern)
  Match this path against the provided glob-style pattern. Return ``True`` if matching is successful, ``False`` otherwise.
  If *pattern* is relative, the path can be either relative or absolute, and matching is done from the right::
      >>> PurePath('a/b.py').match('*.py')
      True
      >>> PurePath('/a/b/c.py').match('b/*.py')
      True
      >>> PurePath('/a/b/c.py').match('a/*.py')
      False
  If *pattern* is absolute, the path must be absolute, and the whole path
  must match::
      >>> PurePath('/a.py').match('/*.py')
      True >>> PurePath('a/b.py').match('/*.py')
   As with other methods, case-sensitivity follows platform defaults::
      >>> PurePosixPath('b.py').match('*.PY')
      False
      >>> PureWindowsPath('b.py').match('*.PY')
```

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Unknown directive type "method".

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```
.. method:: PurePath.with_name(name)

Return a new path with the :attr:`name` changed. If the original path doesn't have a name, ValueError is raised::

>>> p = PureWindowsPath('c:/Downloads/pathlib.tar.gz')
>>> p.with_name('setup.py')
PureWindowsPath('c:/Downloads/setup.py')
>>> p = PureWindowsPath('c:/')
>>> p.with_name('setup.py')
Traceback (most recent call last):
```

```
File "<stdin>", line 1, in <module>
File "/home/antoine/cpython/default/Lib/pathlib.py", line 751, in with_name raise ValueError("%r has an empty name" % (self,))
ValueError: PureWindowsPath('c:/') has an empty name
```

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Unknown directive type "method".

```
.. method:: PurePath.with_stem(stem)
    Return a new path with the :attr:`stem` changed. If the original path
    doesn't have a name, ValueError is raised::
          >>> p = PureWindowsPath('c:/Downloads/draft.txt')
          >>> p.with_stem('final')
         PureWindowsPath('c:/Downloads/final.txt')
>>> p = PureWindowsPath('c:/Downloads/pathlib.tar.gz')
         >>> p.with_stem('lib')
PureWindowsPath('c:/Downloads/lib.gz')
         PureWindowsPath('C:/Downloads/110.gz')
>>> p = PureWindowsPath('C:/')
>>> p.with_stem('')
Traceback (most recent call last):
File "<stdin>", line 1, in <module>
File "/home/antoine/cpython/default/Lib/pathlib.py", line 861, in with_stem
         return self.with_name(stem + self.suffix)
File "/home/antoine/cpython/default/Lib/pathlib.py", line 851, in with_name
raise ValueError("%r has an empty name" % (self,))
ValueError: PureWindowsPath('c:/') has an empty name
     .. versionadded:: 3.9
```

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Unknown directive type "method".

```
.. method:: PurePath.with suffix(suffix)
   Return a new path with the :attr:`suffix` changed. If the original path doesn't have a suffix, the new *suffix* is appended instead. If the *suffix* is an empty string, the original suffix is removed::
         >>> p = PureWindowsPath('c:/Downloads/pathlib.tar.gz')
         >>> p.with suffix('.bz2')
        PureWindowsPath('c:/Downloads/pathlib.tar.bz2')
>>> p = PureWindowsPath('README')
         >>> p.with_suffix('.txt')
        PureWindowsPath('README.txt')
>>> p = PureWindowsPath('README.txt')
         >>> p.with_suffix('')
         PureWindowsPath('README')
```

Concrete paths

Concrete paths are subclasses of the pure path classes. In addition to operations provided by the latter, they also provide methods to do system calls on path objects. There are three ways to instantiate concrete paths:

A subclass of class: PurePath', this class represents concrete paths of the system's path flavour (instantiating it creates either a :class:'PosixPath' or a :class:'WindowsPath'):

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpythonmain\Doc\library\(cpython-main) (Doc) (library)pathlib.rst, line 631); backlink

Unknown interpreted text role "class".

 $System\,Message:\,ERROR/3\, (\texttt{D:} \verb|\conboarding-resources| sample-onboarding-resources| cpython-resources| continuous and con$ ain\Doc\library\(cpython-main)(Doc)(library)pathlib.rst, line 631); backlink

Unknown interpreted text role "class".

System Message: ERROR/3 (D:\onboarding-resources\sa ple-on main\Doc\library\(cpython-main\)(Doc) (library) pathlib.rst, line 631); backlink

Unknown interpreted text role "class".

```
>>> Path('setup.py')
PosixPath('setup.py')
```

pathsegments is specified similarly to :class:'PurePath'.

 $System\,Message:\,ERROR/3\,(\text{D:}\onboarding-resources}\space)$ main\Doc\library\(cpython-main) (Doc) (library)pathlib.rst, line 638); backlink

Unknown interpreted text role "class".

A subclass of :class: 'Path' and :class: 'PurePosixPath', this class represents concrete non-Windows filesystem paths:

 $System\,Message:\,ERROR/3\,(\text{D:}\colored ing-resources}) ample-onboarding-resources) courses and the colored ing-resources are considered in the colored ing-resources. The colored ing-resources are considered in the colored ing-resource and the colored ing-resources are considered in the colored ing-resources. The colored ing-resources are colored in the colored ing-resources. The colored indicates are colored in the colored indicates are$ main\Doc\library\(cpython-main)(Doc)(library)pathlib.rst, line 642); backlink

Unknown interpreted text role "class".

 $System\ Message: ERROR/3\ (D:\onboarding-resources\space) sample-onboarding-resources\space) continuous sample-onboarding-resources co$

Unknown interpreted text role "class".

```
>>> PosixPath('/etc')
PosixPath('/etc')
```

pathsegments is specified similarly to :class:'PurePath'.

 $System \, Message: ERROR/3 \ (\texttt{D:\onboarding-resources} \texttt{cample-onboarding-resources} \texttt{cpython-main} \ (\texttt{Doc\library}) \ pathlib.rst, \ line \ 648); \ \textit{backlink} \)$

Unknown interpreted text role "class".

A subclass of class: Path' and class: PureWindowsPath', this class represents concrete Windows filesystem paths:

 $System \, Message: ERROR/3 \ (\texttt{D:\noboarding-resources} \texttt{cample-onboarding-resources} \texttt{cpython-main} \ (\texttt{Doc}\ (\texttt{library}) \ pathlib.rst, \ line \ 652); \ \textit{backlink} \)$

Unknown interpreted text role "class".

 $System \, Message: ERROR/3 \, (\texttt{D:\onboarding-resources} \texttt{sample-onboarding-resources} \texttt{cpython-main} \, (\texttt{Doc}\) \, (\texttt{library}\) \, (\texttt{python-main}) \, (\texttt{Doc}\) \, (\texttt{library}\) \, (\texttt{pthon-main}) \, (\texttt{Doc}\) \, (\texttt{library}\) \, (\texttt{pthon-main}) \,$

Unknown interpreted text role "class".

```
>>> WindowsPath('c:/Program Files/')
WindowsPath('c:/Program Files')
```

pathsegments is specified similarly to :class:'PurePath'.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main)\((Doc)\) (library) pathlib.rst, line 658); backlink

Unknown interpreted text role "class".

You can only instantiate the class flavour that corresponds to your system (allowing system calls on non-compatible path flavours could lead to bugs or failures in your application):

```
>>> import os
>>> os.name
'posix'
>>> Path('setup.py')
PosixPath('setup.py')
>>> PosixPath('setup.py')
PosixPath('setup.py')

>>> WindowsPath('setup.py')

Traceback (most recent call last):
File "(stdin>", line 1, in <module>
File "pathlib.py", line 798, in __new__
% (cls.__name__,))

NotImplementedError: cannot instantiate 'WindowsPath' on your system
```

Methods

Concrete paths provide the following methods in addition to pure paths methods. Many of these methods can raise an :exc: 'OSError' if a system call fails (for example because the path doesn't exist).

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main) (Doc) (library)pathlib.rst, line 682); backlink

Unknown interpreted text role "exc".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main)\Doc\library\(cpython-main)\Doc\library\(cpython-main)\)

Unknown directive type "versionchanged".

```
.. versionchanged:: 3.8

:meth:`~Path.exists()`, :meth:`~Path.is_dir()`, :meth:`~Path.is_file()`, :meth:`~Path.is_mount()`, :meth:`~Path.is_symlink()`, :meth:`~Path.is_block_device()`, :meth:`~Path.is_char_device()`, :meth:`~Path.is_fifo()`, :meth:`~Path.is_socket()` now return ``False`` instead of raising an exception for paths that contain characters unrepresentable at the OS level.
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main) (Doc) (library)pathlib.rst, line 696)

```
.. classmethod:: Path.cwd()

Return a new path object representing the current directory (as returned by :func:`os.getcwd`)::

>>> Path.cwd()
    PosixPath('/home/antoine/pathlib')
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpythonmain\Doc\library\(cpython-main) (Doc) (library)pathlib.rst, line 705) Unknown directive type "classmethod". .. classmethod:: Path.home() Return a new path object representing the user's home directory (as returned by :func:`os.path.expanduser` with ``~`` construct). If the home directory can't be resolved, :exc:`RuntimeError` is raised.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpythonmain\Doc\library\(cpython-main)(Doc)(library)pathlib.rst, line 719)

Unknown directive type "method".

>>> Path.home()

.. versionadded:: 3.5

PosixPath('/home/antoine')

.. method:: Path.stat(*, follow_symlinks=True) Return a :class:`os.stat_result` object containing information about this path, like :func:`os.stat`. The result is looked up at each call to this method. This method normally follows symlinks; to stat a symlink add the argument ``follow_symlinks=False``, or use :meth: $\ensuremath{^{\sim}}$ Path.lstat`. >>> p = Path('setup.py') >>> p.stat().st_size 956 >>> p.stat().st_mtime 1327883547.852554 .. versionchanged:: 3.10
The *follow_symlinks* parameter was added.

 $System\,Message:\,ERROR/3\,(\text{D:}\colored ing-resources}) ample-onboarding-resources) courses and the colored ing-resources are considered in the colored ing-resources and the colored ing-resources are considered in the colored ing-resources. The colored ing-resources are considered in the colored ing-resources are considered in the colored ing-resources are colored in the colored indicated indicated in the colored indicated indicated in the colored indicated in the colored indicated indicated indicated indicated in the colored indicated indicate$ main\Doc\library\(cpython-main)(Doc)(library)pathlib.rst, line 738)

Unknown directive type "method".

```
.. method:: Path.chmod(mode, *, follow symlinks=True)
    Change the file mode and permissions, like :func:`os.chmod`.
    This method normally follows symlinks. Some Unix flavours support changing permissions on the symlink itself; on these platforms you may add the argument ``follow_symlinks=False``, or use :meth:`~Path.lchmod`.
        >>> p = Path('setup.py')
        >>> p.stat().st_mode
33277
        >>> p.chmod(0o444)
>>> p.stat().st_mode
33060
    .. versionchanged:: 3.10
        The *follow_symlinks* parameter was added.
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources) arding-resources\cpythonmain\Doc\library\(cpython-main) (Doc) (library)pathlib.rst, line 758)

Unknown directive type "method".

```
.. method:: Path.exists()
   Whether the path points to an existing file or directory::
       >>> Path('.').exists()
      True
       >>> Path('setup.py').exists()
      True
>>> Path('/etc').exists()
      True
>>> Path('nonexistentfile').exists()
      False
      If the path points to a symlink, :meth:`exists` returns whether the symlink *points to* an existing file or directory.
```

 $System\,Message:\,ERROR/3\,(\text{D:}\nonlinegresources}) sample-onboarding-resources \land cpython-linegresources \land consideration for the control of the control of$ main\Doc\library\(cpython-main) (Doc) (library)pathlib.rst, line 776)

```
.. method:: Path.expanduser()
    Return a new path with expanded ``~`` and ``~user`` constructs, as returned by :meth:`os.path.expanduser`. If a home directory can't be
```

```
resolved, :exc: `RuntimeError` is raised.
            >>> p = PosixPath('~/films/Monty Python')
             >>> p.expanduser()
            PosixPath('/home/eric/films/Monty Python')
         .. versionadded:: 3.5
System\,Message:\,ERROR/3\,(\text{D:}\onboarding-resources}\armle-onboarding-resources\armle-onboarding-resources})
main\Doc\library\(cpython-main) (Doc) (library)pathlib.rst, line 791)
Unknown directive type "method".
     .. method:: Path.glob(pattern)
        Glob the given relative *pattern* in the directory represented by this path, yielding all matching files (of any kind)::
            >>> sorted(Path('.').glob('*.py'))
[PosixPath('pathlib.py'), PosixPath('setup.py'), PosixPath('test_pathlib.py')]
>>> sorted(Path('.').glob('*/*.py'))
            [PosixPath('docs/conf.py')]
        Patterns are the same as for :mod:`fnmatch`, with the addition of "``**`" which means "this directory and all subdirectories, recursively". In other words, it enables recursive globbing::
            >>> sorted(Path('.').glob('**/*.py'))
            [PosixPath('build/lib/pathlib.py'),
              PosixPath('docs/conf.py'),
             PosixPath('pathlib.py'),
PosixPath('setup.py'),
             PosixPath('test_pathlib.py')]
            Using the "``**``" pattern in large directory trees may consume
            an inordinate amount of time.
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main) (Doc) (library) pathlib.rst, line 819)

.. audit-event:: pathlib.Path.glob self,pattern pathlib.Path.glob

Unknown directive type "method".

```
.. method:: Path.group()

Return the name of the group owning the file. :exc:`KeyError` is raised
if the file's gid isn't found in the system database.
```

 $System\,Message: ERROR/3 \ (\texttt{D:\onboarding-resources}) sample-onboarding-resources \ (\texttt{cpython-main}) \ (\texttt{Doc}) \ (\texttt{library}) \ pathlib.rst, \ line\ 825)$

Unknown directive type "method".

```
.. method:: Path.is_dir()

Return ``True`` if the path points to a directory (or a symbolic link pointing to a directory), ``False`` if it points to another kind of file.

'`False`` is also returned if the path doesn't exist or is a broken symlink; other errors (such as permission errors) are propagated.
```

 $System\,Message: ERROR/3 \ (\texttt{D:\onboarding-resources}) ample-onboarding-resources \verb|\coc|| to the state of the main \verb|\coc|| to the state of the s$

Unknown directive type "method".

```
.. method:: Path.is_file()

Return ``True`` if the path points to a regular file (or a symbolic link pointing to a regular file), ``False`` if it points to another kind of file.

``False`` is also returned if the path doesn't exist or is a broken symlink; other errors (such as permission errors) are propagated.
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main) (Doc) (library)pathlib.rst, line 843)

```
.. method:: Path.is_mount()

Return ``True`` if the path is a :dfn:`mount point`: a point in a file system where a different file system has been mounted. On POSIX, the function checks whether *path*'s parent, :file:`path/..`, is on a different device than *path*, or whether :file:`path/..` and *path* point to the same i-node on the same device --- this should detect mount points for all Unix and POSIX variants. Not implemented on Windows.
```

```
.. versionadded:: 3.7
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main) (Doc) (library) pathlib.rst, line 855)

Unknown directive type "method".

.. method:: Path.is_symlink()
Return ``True`` if the path points to a symbolic link, ``False`` otherwise.
 ``False`` is also returned if the path doesn't exist; other errors (such as permission errors) are propagated.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main) (Doc) (library)pathlib.rst, line 863)

Unknown directive type "method".

```
.. method:: Path.is_socket()
  Return ``True`` if the path points to a Unix socket (or a symbolic link
  pointing to a Unix socket), ``False`` if it points to another kind of file.
  ``False`` is also returned if the path doesn't exist or is a broken symlink;
  other errors (such as permission errors) are propagated.
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main) (Doc) (library)pathlib.rst, line 872)

Unknown directive type "method".

```
.. method:: Path.is_fifo()
  Return ``True`` if the path points to a FIFO (or a symbolic link
  pointing to a FIFO), ``False`` if it points to another kind of file.
  ``False`` is also returned if the path doesn't exist or is a broken symlink;
  other errors (such as permission errors) are propagated.
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main) (Doc) (library)pathlib.rst, line 881)

Unknown directive type "method".

```
.. method:: Path.is_block_device()

Return ``True`` if the path points to a block device (or a symbolic link pointing to a block device), ``False`` if it points to another kind of file.

``False`` is also returned if the path doesn't exist or is a broken symlink; other errors (such as permission errors) are propagated.
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main) (Doc) (library)pathlib.rst, line 890)

Unknown directive type "method".

```
.. method:: Path.is_char_device()

Return ``True`` if the path points to a character device (or a symbolic link pointing to a character device), ``False`` if it points to another kind of file.

``False`` is also returned if the path doesn't exist or is a broken symlink; other errors (such as permission errors) are propagated.
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main) (Doc) (library) pathlib.rst, line 899)

Unknown directive type "method".

```
.. method:: Path.iterdir()
When the path points to a directory, yield path objects of the directory contents::
    >>> p = Path('docs')
    >>> for child in p.iterdir(): child
    ...
    PosixPath('docs/conf.py')
    PosixPath('docs/_templates')
    PosixPath('docs/_make.bat')
    PosixPath('docs/_index.rst')
    PosixPath('docs/_build')
    PosixPath('docs/_static')
    PosixPath('docs/_Makefile')
```

The children are yielded in arbitrary order, and the special entries ``'.'`` and ``'..'`` are not included. If a file is removed from or added to the directory after creating the iterator, whether a path object for that file be included is unspecified.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpythonmain\Doc\library\(cpython-main)(Doc)(library)pathlib.rst, line 920)

Unknown directive type "method".

```
.. method:: Path.lchmod(mode)
   Like :meth: Path.chmod but, if the path points to a symbolic link, the symbolic link's mode is changed rather than its target's.
```

 $System Message: ERROR/3 \ (\texttt{D:\lonboarding-resources\sl} sample-onboarding-resources\slope control of the property of the p$ main\Doc\library\(cpython-main) (Doc) (library)pathlib.rst, line 926)

Unknown directive type "method".

```
.. method:: Path.lstat()
    Like :meth: Path.stat` but, if the path points to a symbolic link, return the symbolic link's information rather than its target's.
```

 $System\,Message:\,ERROR/3\,(\text{D:}\colored ing-resources}) a mple-onboarding-resources \colored ing-resources).$ ain\Doc\library\(cpython-main)(Doc)(library)pathlib.rst, line 932)

Unknown directive type "method".

```
.. method:: Path.mkdir(mode=0o777, parents=False, exist_ok=False)
   Create a new directory at this given path. If *mode* is given, it is combined with the process' ``umask`` value to determine the file mode
   and access flags. If the path already exists, :exc:`FileExistsError`
   is raised.
   If *parents* is true, any missing parents of this path are created as needed; they are created with the default permissions without taking
   *mode* into account (mimicking the POSIX ``mkdir -p`` command).
   If *parents* is false (the default), a missing parent raises :exc:`FileNotFoundError`.
   If *exist_ok* is false (the default), :exc:`FileExistsError` is raised if the target directory already exists.
   If *exist ok* is true, :exc:`FileExistsError` exceptions will be
   ignored (same behavior as the POSIX ``mkdir -p`` command), but only if the
   last path component is not an existing non-directory file.
   .. versionchanged:: 3.5
The *exist_ok* parameter was added.
```

 $System\,Message:\,ERROR/3\, (\texttt{D:} \verb|\conting-resources| sample-onboarding-resources| cpython-onboarding-resources| conting-resources| conting-reso$ main\Doc\library\(cpython-main)(Doc)(library)pathlib.rst, line 957)

Unknown directive type "method".

```
.. method:: Path.open(mode='r', buffering=-1, encoding=None, errors=None, newline=None
  Open the file pointed to by the path, like the built-in :func:`open`
  function does::
      >>> p = Path('setup.py')
      >>> with p.open() as f:
... f.readline()
      '#!/usr/bin/env python3\n'
```

System Message: ERROR/3 (D:\onboarding-resources\sa ain\Doc\library\(cpython-main)(Doc)(library)pathlib.rst, line 969)

Unknown directive type "method".

```
.. method:: Path.owner()
   Return the name of the user owning the file. :exc:`KeyError` is raised if the file's uid isn't found in the system database.
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpythonmain\Doc\library\(cpython-main) (Doc) (library)pathlib.rst, line 975)

```
.. method:: Path.read_bytes()
  Return the binary contents of the pointed-to file as a bytes object::
      >>> p = Path('my_binary_file')
     >>> p.write_bytes(b'Binary file contents')
     >>> p.read_bytes()
     b'Binary file contents'
   .. versionadded:: 3.5
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main)\Doc\library\(python-main)\Doc\library\(python-main)\)

```
Unknown directive type "method".
```

```
.. method:: Path.read_text(encoding=None, errors=None)

Return the decoded contents of the pointed-to file as a string::

>>> p = Path('my_text_file')
>>> p.write_text('Text file contents')
18
>>> p.read_text()
'Text file contents'

The file is opened and then closed. The optional parameters have the same meaning as in :func:'open'.
.. versionadded:: 3.5
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main) (Doc) (library) pathlib.rst, line 1004)

Unknown directive type "method".

```
.. method:: Path.readlink()
Return the path to which the symbolic link points (as returned by :func:`os.readlink`)::
    >>> p = Path('mylink')
    >>> p.symlink_to('setup.py')
    >>> p.readlink()
    PosixPath('setup.py')
.. versionadded:: 3.9
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main) (Doc) (library) pathlib.rst, line 1017)

Unknown directive type "method".

```
.. method:: Path.rename(target)

Rename this file or directory to the given *target*, and return a new Path instance pointing to *target*. On Unix, if *target* exists and is a file, it will be replaced silently if the user has permission. *target* can be either a string or another path object::

>>> p = Path('foo')
>>> p.open('w').write('some text')
9
>>> target = Path('bar')
>>> p.rename(target)
PosixPath('bar')
>>> target.open().read()
'some text'

The target path may be absolute or relative. Relative paths are interpreted relative to the current working directory, *not* the directory of the Path object.
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main\) (Doc) (library)pathlib.rst, line 1041)

Unknown directive type "method".

```
.. method:: Path.replace(target)
```

.. versionchanged:: 3.8

Rename this file or directory to the given *target*, and return a new Path instance pointing to *target*. If *target* points to an existing file or directory, it will be unconditionally replaced.

The target path may be absolute or relative. Relative paths are interpreted relative to the current working directory, *not* the directory of the Path object.

```
.. versionchanged:: 3.8
Added return value, return the new Path instance.
```

Added return value, return the new Path instance.

 $System\,Message: ERROR/3 \ (\texttt{D:\onboarding-resources}) sample-onboarding-resources \ (\texttt{cpython-main}) \ (\texttt{Doc}) \ (\texttt{library}) \ pathlib.rst, \ line \ 1055)$

```
.. method:: Path.absolute()
Make the path absolute, without normalization or resolving symlinks.
Returns a new path object::
    >>> p = Path('tests')
    >>> p
    PosixPath('tests')
```

```
>>> p.absolute()
PosixPath('/home/antoine/pathlib/tests')
```

```
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main) (Doc) (library)pathlib.rst, line 1067)
Unknown directive type "method".
```

```
Make the path absolute, resolving any symlinks. A new path object is
returned::

>>> p = Path()
>>> p
PosixPath('.')
>>> p.resolve()
PosixPath('/home/antoine/pathlib')

"``.``" components are also eliminated (this is the only method to do so)::

>>> p = Path('docs/../setup.py')
>>> p.resolve()
PosixPath('/home/antoine/pathlib/setup.py')

If the path doesn't exist and *strict* is ``True``, :exc:`FileNotFoundError` is raised. If *strict* is ``False``, the path is resolved as far as possible and any remainder is appended without checking whether it exists. If an infinite loop is encountered along the resolution path, :exc:`RuntimeError` is raised.

.. versionadded:: 3.6
The *strict* argument (pre-3.6 behavior is strict).
```

 $System Message: ERROR/3 (\texttt{D:\onboarding-resources} sample-onboarding-resources \texttt{Cpython-main} \texttt{Doc} \texttt{library} (\texttt{cpython-main}) (\texttt{Doc}) (\texttt{library}) \texttt{pathlib.rst}, \\ \textit{line 1093})$

Unknown directive type "method".

```
.. method:: Path.rglob(pattern)
This is like calling :func: Path.glob` with "``**/``" added in front of the given relative *pattern*::
    >>> sorted(Path().rglob("*.py"))
    [PosixPath('build/lib/pathlib.py'),
    PosixPath('docs/conf.py'),
    PosixPath('pathlib.py'),
    PosixPath('setup.py'),
    PosixPath('test_pathlib.py')]
.. audit-event:: pathlib.Path.rglob self,pattern pathlib.Path.rglob
```

 $System Message: ERROR/3 \ (\c :\non-main) Doc\ (\c :\non-main) Doc\ (\c :\non-main) Doc\ (\c :\non-main) Doc\ (\c :\non-main) (Doc\ (\c :\non-main) Doc\ (\c :\non-main) (Doc\ (\c :\non-main) (Doc\$

Unknown directive type "method".

```
.. method:: Path.rmdir()
    Remove this directory. The directory must be empty.
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main) (Doc) (library) pathlib.rst, line 1113)

Unknown directive type "method".

```
.. method:: Path.samefile(other_path)

Return whether this path points to the same file as *other_path*, which can be either a Path object, or a string. The semantics are similar to :func:`os.path.samefile` and :func:`os.path.samestat`.

An :exc:`OSError` can be raised if either file cannot be accessed for some reason.

::

>>> p = Path('spam')
>>> q = Path('eggs')
>>> p.samefile(q)
False
>>> p.samefile('spam')
True
.. versionadded:: 3.5
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main) (Doc) (library) pathlib.rst, line 1134)

```
.. method:: Path.symlink_to(target, target_is_directory=False)

Make this path a symbolic link to *target*. Under Windows,
```

```
*target_is directory* must be true (default ``False``) if the link's target
is a directory. Under POSIX, *target_is_directory*'s value is ignored.
   >>> p = Path('mylink')
   >>> p.symlink_to('setup.py')
   >>> p.resolve()
   PosixPath('/home/antoine/pathlib/setup.py')
   >>> p.stat().st_size
   >>> p.lstat().st_size
.. note::
   The order of arguments (link, target) is the reverse of :func:`os.symlink`'s.
```

 $System\,Message:\,ERROR/3\, (\texttt{D:} \verb|\conting-resources| sample-onboarding-resources| cpython-onboarding-resources| conting-resources| conting-reso$ main\Doc\library\(cpython-main) (Doc) (library)pathlib.rst, line 1155)

Unknown directive type "method".

```
.. method:: Path.hardlink_to(target)
  Make this path a hard link to the same file as *target*.
     The order of arguments (link, target) is the reverse
     of :func:`os.link`'s.
   .. versionadded:: 3.10
```

 $System\,Message:\,ERROR/3\,(\text{D:}\onboarding-resources}\) ample-onboarding-resources)$ main\Doc\library\(cpython-main)(Doc)(library)pathlib.rst, line 1165)

```
Unknown directive type "method".
    .. method:: Path.link_to(target)
       Make *target* a hard link to this path.
        .. warning::
           This function does not make this path a hard link to *target*, despite
            the implication of the function and argument names. The argument order
           (target, link) is the reverse of :func: `Path.symlink to` and :func: `Path.hardlink_to`, but matches that of :func: `os.link`.
        .. versionadded:: 3.8
        .. deprecated:: 3.10
           This method is deprecated in favor of :meth: `Path.hardlink_to`, as the argument order of :meth: `Path.link_to` does not match that of
            :meth:`Path.symlink to`.
```

.n\Doc\library\(cpython-main) (Doc) (library)pathlib.rst, line 1185)

Unknown directive type "method".

.. method:: Path.touch(mode=0o666, exist ok=True)

```
Create a file at this given path. If *mode* is given, it is combined with the process' ``umask`` value to determine the file mode and access
with the process' ``umask`` value to determine the file mode and access flags. If the file already exists, the function succeeds if *exist_ok* is true (and its modification time is updated to the current time),
otherwise :exc:`FileExistsError` is raised.
```

 $System\,Message:\,ERROR/3\, (\texttt{D:} \verb|\conting-resources| sample-onboarding-resources| cpython-onboarding-resources| conting-resources| conting-reso$ ain\Doc\library\(cpython-main) (Doc) (library)pathlib.rst, line 1194)

Unknown directive type "method".

```
.. method:: Path.unlink(missing ok=False)
   Remove this file or symbolic link. If the path points to a directory, use :func:`Path.rmdir` instead.
   If *missing_ok* is false (the default), :exc:`FileNotFoundError` is raised if the path does not exist.
   If *missing_ok* is true, :exc:`FileNotFoundError` exceptions will be ignored (same behavior as the POSIX ``rm -f`` command).
    .. versionchanged:: 3.8
        The *missing ok* parameter was added.
```

ain\Doc\library\(cpython-main)(Doc)(library)pathlib.rst, line 1209)

```
.. method:: Path.write_bytes(data)
```

```
Open the file pointed to in bytes mode, write *data* to it, and close the
file::

>>> p = Path('my_binary_file')
>>> p.write_bytes(b'Binary file contents')
20
>>> p.read_bytes()
b'Binary file contents'

An existing file of the same name is overwritten.
.. versionadded:: 3.5
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main) (Doc) (library)pathlib.rst, line 1225)

Unknown directive type "method".

Correspondence to tools in the :mod:'os' module

 $System\ Message: ERROR/3\ (\texttt{D:\noboarding-resources}\ sample-onboarding-resources\ cpython-main\ Doc\ library\ (epython-main\ (Doc)\ (library)\ pathlib.rst,\ line\ 1244);\ backlink$

Unknown interpreted text role "mod".

Below is a table mapping various mod: os' functions to their corresponding :class: 'PurePath'/class: 'Path' equivalent.

 $System \, Message: ERROR/3 \, (\texttt{D:\onboarding-resources} \texttt{sample-onboarding-resources} \texttt{cpython-main} \, (\texttt{Doc}) \, (\texttt{library}) \, \texttt{pathlib.rst}, \, \\ \text{line } 1247); \, \textit{backlink} \, \\ \text{pathlib.rst}, \, \text{line } 1247); \, \textit{backlink} \, \\ \text{pathlib.rst}, \, \text{line } 1247); \, \text{backlink} \, \\ \text{pathlib.rst}, \, \text{line } 1247); \, \text{backlink} \, \\ \text{pathlib.rst}, \, \text{line } 1247); \, \text{backlink} \, \\ \text{pathlib.rst}, \, \text{line } 1247); \, \text{backlink} \, \\ \text{pathlib.rst}, \, \text{line } 1247); \, \text{backlink} \, \\ \text{pathlib.rst}, \, \text{line } 1247); \, \text{backlink} \, \\ \text{pathlib.rst}, \, \text{line } 1247); \, \text{backlink} \, \\ \text{pathlib.rst}, \, \text{line } 1247); \, \text{backlink} \, \\ \text{pathlib.rst}, \, \text{line } 1247); \, \text{backlink} \, \\ \text{pathlib.rst}, \, \text{line } 1247); \, \text{backlink} \, \\ \text{pathlib.rst}, \, \text{line } 1247); \, \text{backlink} \, \\ \text{pathlib.rst}, \, \text{line } 1247); \, \text{backlink} \, \\ \text{pathlib.rst}, \, \text{line } 1247); \, \text{backlink} \, \\ \text{pathlib.rst}, \, \text{line } 1247); \, \text{backlink} \, \\ \text{pathlib.rst}, \, \text{line } 1247); \, \text{backlink} \, \\ \text{pathlib.rst}, \, \text{line } 1247); \, \text{backlink} \, \\ \text{pathlib.rst}, \, \text{line } 1247); \, \text{backlink} \, \\ \text{pathlib.rst}, \, \text{line } 1247); \, \text{backlink} \, \\ \text{pathlib.rst}, \, \text{line } 1247); \, \text{backlink} \, \\ \text{pathlib.rst}, \, \text{line } 1247); \, \text{backlink} \, \\ \text{pathlib.rst}, \, \text{line } 1247); \, \text{backlink} \, \\ \text{pathlib.rst}, \, \text{line } 1247); \, \text{backlink} \, \\ \text{pathlib.rst}, \, \text{line } 1247); \, \text{backlink} \, \\ \text{pathlib.rst}, \, \text{line } 1247); \, \text{backlink}, \,$

Unknown interpreted text role "mod".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main) (Doc) (library) pathlib.rst, line 1247); backlink

Unknown interpreted text role "class".

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Note

Not all pairs of functions/methods below are equivalent. Some of them, despite having some overlapping use-cases, have different semantics. They include :func:`os.path.abspath` and :meth:`Path.absolute`, :func:`os.path.relpath` and :meth:`PurePath.relative_to`.

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Unknown interpreted text role "func".

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Unknown interpreted text role "meth".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\(cpython-main) (Doc) (library) pathlib.rst, line 1252); backlink

Unknown interpreted text role "func".

 $System\ Message: ERROR/3\ (\texttt{D:}\onboarding-resources}\scaleboarding-resources \c)\ (\texttt{Doc}\)\ (\texttt{Doc}\)\ (\texttt{Doc}\)\ (\texttt{Dibrary}\)\ pathlib.rst, \\ line\ 1252); \ backlink$

Unknown interpreted text role "meth".

```
:mod:'os' and :mod:'os.path'
      System Message: ERROR/3 (D:\onboarding-
                                                             :mod:`pathlib`
      resources\sample-onboarding-
      {\tt resources \cpython-main \Doc\library \}
                                                                   System Message: ERROR/3
       (cpython-main) (Doc) (library) pathlib.rst,
                                                                   (D:\onboarding-
      line 1259); backlink
                                                                   resources\sample-onboarding-
      Unknown interpreted text role "mod".
                                                                   resources\cpython-
                                                                   main\Doc\library\(cpython-main)
                                                                    (Doc) (library)pathlib.rst, line
      System Message: ERROR/3 (D:\onboarding-
                                                                   1259); backlink
      resources\sample-onboarding-
      resources\cpython-main\Doc\library\
                                                                   Unknown interpreted text role
                                                                    "mod".
       (cpython-main) (Doc) (library) pathlib.rst,
      line 1259); backlink
      Unknown interpreted text role "mod".
                                                            :meth:'Path.absolute' [1]
:func:\os.path.abspath\
                                                                   System Message: ERROR/3
      System Message: ERROR/3 (D:\onboarding-
                                                                   (D:\onboarding-
      resources\sample-onboarding-
                                                                   resources\sample-onboarding-
      resources\cpython-main\Doc\library\
                                                                   resources\cpython-
       (cpython-main) (Doc) (library) pathlib.rst,
                                                                   main\Doc\library\(cpython-main)
      line 1261); backlink
                                                                   (Doc) (library)pathlib.rst, line
                                                                   1261); backlink
      Unknown interpreted text role "func".
                                                                   Unknown interpreted text role "meth".
                                                            :meth:`Path.resolve
:func:'os.path.realpath'
                                                                   System Message: ERROR/3
      System Message: ERROR/3 (D:\onboarding-
                                                                   (D:\onboarding-
      resources\sample-onboarding-
                                                                   resources\sample-onboarding-
      resources\cpython-main\Doc\library\
                                                                   resources\cpython-
      (cpython-main) (Doc) (library)pathlib.rst,
                                                                   main\Doc\library\(cpython-main)
      line 1262); backlink
                                                                    (Doc) (library) pathlib.rst, line
                                                                   1262); backlink
      Unknown interpreted text role "func".
                                                                   Unknown interpreted text role 'meth''.
                                                            :meth:`Path.chmod
:func:\os.chmod\
                                                                   System Message: ERROR/3
      System Message: ERROR/3 (D:\onboarding-
                                                                   (D:\onboarding-
      resources\sample-onboarding-
                                                                   resources\sample-onboarding-
      {\tt resources \cpython-main \Doc\library \}
                                                                   resources\cpython-
       (cpython-main) (Doc) (library) pathlib.rst,
                                                                   main\Doc\library\(cpython-main)
      line 1263); backlink
                                                                    (Doc) (library)pathlib.rst, line
                                                                   1263); backlink
      Unknown interpreted text role "func".
                                                                   Unknown interpreted text role "meth".
                                                            :meth:`Path.mkdir
:func:\os.mkdir\
                                                                   System Message: ERROR/3
      System Message: ERROR/3 (D:\onboarding-
                                                                   (D:\onboarding-
      resources\sample-onboarding-
                                                                   resources\sample-onboarding-
      resources\cpython-main\Doc\library\
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      (cpython-main) (Doc) (library) pathlib.rst,
                                                                   main\Doc\library\(cpython-main)
      line 1264); backlink
                                                                    (Doc) (library)pathlib.rst, line
                                                                   1264); backlink
      Unknown interpreted text role "func".
                                                                   Unknown interpreted text role "meth".
                                                            :meth:`Path.mkdir`
:func:\os.makedirs\
                                                                   System Message: ERROR/3
      System Message: ERROR/3 (D:\onboarding-
                                                                   (D:\onboarding-
      resources\sample-onboarding-
                                                                   resources\sample-onboarding-
      resources\cpython-main\Doc\library\
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       (cpython-main) (Doc) (library)pathlib.rst,
                                                                   main\Doc\library\(cpython-main)
      line 1265); backlink
                                                                    (Doc) (library)pathlib.rst, line
                                                                   1265); backlink
      Unknown interpreted text role "func".
```

Unknown interpreted text role "meth".

```
:mod:'os' and :mod:'os.path'
      System Message: ERROR/3 (D:\onboarding-
                                                             :mod:`pathlib`
      resources\sample-onboarding-
      {\tt resources \cpython-main \Doc\library \}
                                                                    System Message: ERROR/3
       (cpython-main) (Doc) (library)pathlib.rst,
                                                                    (D:\onboarding-
      line 1259); backlink
                                                                    resources\sample-onboarding-
      Unknown interpreted text role "mod".
                                                                    resources\cpython-
                                                                    main\Doc\library\(cpython-main)
                                                                    (Doc) (library) pathlib.rst, {f line}
      System Message: ERROR/3 (D:\onboarding-
                                                                    1259); backlink
      resources\sample-onboarding-
                                                                    Unknown interpreted text role
      {\tt resources \cpython-main \Doc\library \}
                                                                    "mod".
      (cpython-main) (Doc) (library)pathlib.rst,
      line 1259); backlink
      Unknown interpreted text role "mod".
                                                             :meth:`Path.rename`
:func:\os.rename\
                                                                    System Message: ERROR/3
      System Message: ERROR/3 (D:\onboarding-
                                                                    (D:\onboarding-
       resources\sample-onboarding-
                                                                    resources\sample-onboarding-
      resources\cpython-main\Doc\library\
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      (cpython-main) (Doc) (library) pathlib.rst,
                                                                    main\Doc\library\(cpython-main)
      line 1266); backlink
                                                                    (Doc) (library) pathlib.rst, {f line}
                                                                    1266); backlink
      Unknown interpreted text role "func".
                                                                    Unknown interpreted text role "meth".
                                                             :meth:`Path.replace`
:func:`os.replace`
                                                                    System Message: ERROR/3
      System Message: ERROR/3 (D:\onboarding-
                                                                    (D:\onboarding-
      resources\sample-onboarding-
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      {\tt resources \cpython-main \Doc\library \}
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      (cpython-main) (Doc) (library) pathlib.rst,
                                                                    main\Doc\library\(cpython-main)
      line 1267); backlink
                                                                    (Doc) (library)pathlib.rst, line
                                                                    1267); backlink
      Unknown interpreted text role "func".
                                                                    Unknown interpreted text role "meth".
                                                             :meth:`Path.rmdir
:func:\os.rmdir\
                                                                    System Message: ERROR/3
      System Message: ERROR/3 (D:\onboarding-
                                                                    (D:\onboarding-
      resources\sample-onboarding-
                                                                    resources\sample-onboarding-
      resources\cpython-main\Doc\library\
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      (cpython-main) (Doc) (library)pathlib.rst,
                                                                    main\Doc\library\(cpython-main)
      line 1268); backlink
                                                                    (Doc) (library)pathlib.rst, line
                                                                    1268); backlink
      Unknown interpreted text role "func".
                                                                    Unknown interpreted text role "meth".
:func:'os.remove', :func:'os.unlink
      System Message: ERROR/3 (D:\onboarding-
                                                             meth: Path unlink
      resources\sample-onboarding-
      {\tt resources \cpython-main \Doc\library \}
       (cpython-main) (Doc) (library) pathlib.rst,
                                                                    System Message: ERROR/3
      line 1269); backlink
                                                                    (D:\onboarding-
                                                                    resources\sample-onboarding-
      Unknown interpreted text role "func".
                                                                    resources\cpython-
                                                                    main\Doc\library\(cpython-main)
      System Message: ERROR/3 (D:\onboarding-
                                                                    (Doc) (library)pathlib.rst, line
                                                                    1269); backlink
      resources\sample-onboarding-
      resources\cpython-main\Doc\library\
                                                                    Unknown interpreted text role "meth".
       (cpython-main) (Doc) (library) pathlib.rst,
      line 1269); backlink
      Unknown interpreted text role "func".
                                                             :func:`Path.cwd`
:func:`os.getcwd`
                                                                    System Message: ERROR/3
      System Message: ERROR/3 (D:\onboarding-
                                                                    (D:\onboarding-
                                                                    resources\sample-onboarding-
      resources\sample-onboarding-
      resources\cpython-main\Doc\library\
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       (cpython-main) (Doc) (library) pathlib.rst,
                                                                    main\Doc\library\(cpython-main)
      line 1270); backlink
                                                                    (Doc) (library)pathlib.rst, line
                                                                    1270); backlink
      Unknown interpreted text role "func".
                                                                    Unknown interpreted text role "func".
```

```
:mod:'os' and :mod:'os.path'
      System Message: ERROR/3 (D:\onboarding-
                                                             :mod:`pathlib`
      resources\sample-onboarding-
      {\tt resources \cpython-main \Doc\library \}
                                                                   System Message: ERROR/3
       (cpython-main) (Doc) (library)pathlib.rst,
                                                                   (D:\onboarding-
      line 1259); backlink
                                                                   resources\sample-onboarding-
      Unknown interpreted text role "mod".
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                                                                   main\Doc\library\(cpython-main)
                                                                    (Doc) (library) pathlib.rst, {f line}
      System Message: ERROR/3 (D:\onboarding-
                                                                   1259); backlink
      resources\sample-onboarding-
                                                                   Unknown interpreted text role
      {\tt resources \cpython-main \Doc\library \}
                                                                    "mod".
      (cpython-main) (Doc) (library)pathlib.rst,
      line 1259); backlink
      Unknown interpreted text role "mod".
                                                             :meth:'Path.exists'
:func:'os.path.exists'
                                                                   System Message: ERROR/3
      System Message: ERROR/3 (D:\onboarding-
                                                                   (D:\onboarding-
       resources\sample-onboarding-
                                                                    resources\sample-onboarding-
      resources\cpython-main\Doc\library\
                                                                   resources\cpython-
      (cpython-main) (Doc) (library) pathlib.rst,
                                                                   main\Doc\library\(cpython-main)
      line 1271); backlink
                                                                    (Doc) (library) pathlib.rst, {f line}
                                                                   1271); backlink
      Unknown interpreted text role "func".
                                                                   Unknown interpreted text role "meth".
                                                             :meth:'Path.expanduser' and :meth:'Path.home'
                                                                   System Message: ERROR/3
                                                                   (D:\onboarding-
                                                                   resources\sample-onboarding-
                                                                   resources\cpython-
:func:`os.path.expanduser`
                                                                   main\Doc\library\(cpython-main)
                                                                    (Doc) (library)pathlib.rst, line
      System Message: ERROR/3 (D:\onboarding-
                                                                   1272); backlink
      resources\sample-onboarding-
                                                                   Unknown interpreted text role "meth".
      resources\cpython-main\Doc\library\
      (cpython-main) (Doc) (library)pathlib.rst,
      line 1272); backlink
                                                                   System Message: ERROR/3
                                                                   (D:\onboarding-
      Unknown interpreted text role "func".
                                                                   resources\sample-onboarding-
                                                                   resources\cpython-
                                                                   main\Doc\library\(cpython-main)
                                                                    (Doc) (library)pathlib.rst, line
                                                                   1272); backlink
                                                                   Unknown interpreted text role 'meth''.
                                                             :meth:`Path.iterdir
:func:`os.listdir`
                                                                   System Message: ERROR/3
      System Message: ERROR/3 (D:\onboarding-
                                                                   (D:\onboarding-
      resources\sample-onboarding-
                                                                   resources\sample-onboarding-
      {\tt resources \cpython-main \Doc\library \}
                                                                   resources\cpython-
      (cpython-main) (Doc) (library)pathlib.rst,
                                                                   main\Doc\library\(cpython-main)
      line 1274); backlink
                                                                    (Doc) (library)pathlib.rst, line
                                                                   1274); backlink
      Unknown interpreted text role "func".
                                                                   Unknown interpreted text role 'meth''.
                                                             :meth:`Path.is_dir
:func:`os.path.isdir`
                                                                   System Message: ERROR/3
      System Message: ERROR/3 (D:\onboarding-
                                                                   (D:\onboarding-
      resources\sample-onboarding-
                                                                   resources\sample-onboarding-
      resources\cpython-main\Doc\library\
                                                                   resources\cpython-
      (cpython-main) (Doc) (library)pathlib.rst,
                                                                   main\Doc\library\(cpython-main)
      line 1275); backlink
                                                                    (Doc) (library)pathlib.rst, line
```

1275); backlink

Unknown interpreted text role "meth".

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```
:mod:'os' and :mod:'os.path'
      System Message: ERROR/3 (D:\onboarding-
                                                             :mod:`pathlib`
      resources\sample-onboarding-
      {\tt resources \cpython-main \Doc\library \}
                                                                    System Message: ERROR/3
       (cpython-main) (Doc) (library)pathlib.rst,
                                                                    (D:\onboarding-
      line 1259); backlink
                                                                    resources\sample-onboarding-
      Unknown interpreted text role "mod".
                                                                    resources\cpython-
                                                                    main\Doc\library\(cpython-main)
                                                                    (Doc) (library) pathlib.rst, {f line}
      System Message: ERROR/3 (D:\onboarding-
                                                                    1259); backlink
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                                                                    Unknown interpreted text role
      {\tt resources \cpython-main \Doc\library \}
                                                                    "mod".
      (cpython-main) (Doc) (library)pathlib.rst,
      line 1259); backlink
      Unknown interpreted text role "mod".
                                                             :meth:'Path.is file'
:func:\os.path.isfile\
                                                                    System Message: ERROR/3
      System Message: ERROR/3 (D:\onboarding-
                                                                    (D:\onboarding-
       resources\sample-onboarding-
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      resources\cpython-main\Doc\library\
                                                                    resources\cpython-
      (cpython-main) (Doc) (library) pathlib.rst,
                                                                    main\Doc\library\(cpython-main)
      line 1276); backlink
                                                                    (Doc) (library) pathlib.rst, {f line}
                                                                    1276); backlink
      Unknown interpreted text role "func".
                                                                    Unknown interpreted text role "meth".
                                                             :meth:`Path.is symlink`
:func:`os.path.islink`
                                                                    System Message: ERROR/3
      System Message: ERROR/3 (D:\onboarding-
                                                                    (D:\onboarding-
      resources\sample-onboarding-
                                                                    resources\sample-onboarding-
      resources\cpython-main\Doc\library\
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      (cpython-main) (Doc) (library) pathlib.rst,
                                                                    main\Doc\library\(cpython-main)
      line 1277); backlink
                                                                    (Doc) (library)pathlib.rst, line
                                                                    1277); backlink
      Unknown interpreted text role "func".
                                                                    Unknown interpreted text role "meth".
                                                             :meth:`Path.hardlink to`
:func:\os.link\
                                                                    System Message: ERROR/3
      System Message: ERROR/3 (D:\onboarding-
                                                                    (D:\onboarding-
      resources\sample-onboarding-
                                                                    resources\sample-onboarding-
      resources\cpython-main\Doc\library\
                                                                    resources\cpython-
      (cpython-main) (Doc) (library)pathlib.rst,
                                                                    main\Doc\library\(cpython-main)
      line 1278); backlink
                                                                    (Doc) (library)pathlib.rst, line
                                                                    1278); backlink
      Unknown interpreted text role "func".
                                                                    Unknown interpreted text role "meth".
                                                             :meth:`Path.symlink_to`
:func:`os.symlink`
                                                                    System Message: ERROR/3
      System Message: ERROR/3 (D:\onboarding-
                                                                    (D:\onboarding-
      resources\sample-onboarding-
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      resources\cpython-main\Doc\library\
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      (cpython-main) (Doc) (library)pathlib.rst,
                                                                    main\Doc\library\(cpython-main)
      line 1279); backlink
                                                                    (Doc) (library) pathlib.rst, line
                                                                    1279); backlink
      Unknown interpreted text role "func".
                                                                    Unknown interpreted text role "meth".
                                                             :meth:`Path.readlink
:func:\os.readlink\
                                                                    System Message: ERROR/3
      System Message: ERROR/3 (D:\onboarding-
                                                                    (D:\onboarding-
      resources\sample-onboarding-
                                                                    resources\sample-onboarding-
      {\tt resources \cpython-main \Doc\library \}
                                                                    resources\cpython-
       (cpython-main) (Doc) (library) pathlib.rst,
                                                                    main\Doc\library\(cpython-main)
      line 1280); backlink
                                                                    (Doc) (library)pathlib.rst, line
                                                                    1280); backlink
      Unknown interpreted text role "func".
                                                                    Unknown interpreted text role 'meth'.
```

```
:mod:'os' and :mod:'os.path'
      System Message: ERROR/3 (D:\onboarding-
                                                             :mod:`pathlib`
      resources\sample-onboarding-
      {\tt resources \cpython-main \Doc\library \}
                                                                    System Message: ERROR/3
       (cpython-main) (Doc) (library)pathlib.rst,
                                                                    (D:\onboarding-
      line 1259); backlink
                                                                    resources\sample-onboarding-
      Unknown interpreted text role "mod".
                                                                    resources\cpython-
                                                                    main\Doc\library\(cpython-main)
                                                                    (Doc) (library) pathlib.rst, {f line}
      System Message: ERROR/3 (D:\onboarding-
                                                                    1259); backlink
      resources\sample-onboarding-
                                                                    Unknown interpreted text role
      {\tt resources \cpython-main \Doc\library \}
                                                                    "mod".
      (cpython-main) (Doc) (library)pathlib.rst,
      line 1259); backlink
      Unknown interpreted text role "mod".
                                                             :meth:`Path.relative_to` [2]
:func:\os.path.relpath\
                                                                    System Message: ERROR/3
      System Message: ERROR/3 (D:\onboarding-
                                                                    (D:\onboarding-
       resources\sample-onboarding-
                                                                    resources\sample-onboarding-
      resources\cpython-main\Doc\library\
                                                                    resources\cpython-
      (cpython-main) (Doc) (library) pathlib.rst,
                                                                    main\Doc\library\(cpython-main)
      line 1281); backlink
                                                                    (Doc) (library) pathlib.rst, {f line}
                                                                    1281); backlink
      Unknown interpreted text role "func".
                                                                    Unknown interpreted text role "meth".
                                                             :meth: 'Path.stat', :meth: 'Path.owner', :meth: 'Path.group'
                                                                    System Message: ERROR/3
                                                                    (D:\onboarding-
                                                                    resources\sample-onboarding-
                                                                    resources\cpython-
                                                                    main\Doc\library\(cpython-main)
                                                                    (Doc) (library)pathlib.rst, line
                                                                    1282); backlink
                                                                    Unknown interpreted text role "meth".
:func:\os.stat\
                                                                    System Message: ERROR/3
      System Message: ERROR/3 (D:\onboarding-
                                                                    (D:\onboarding-
                                                                    resources\sample-onboarding-
      resources\sample-onboarding-
                                                                    resources\cpython-
      resources\cpython-main\Doc\library\
      (cpython-main) (Doc) (library)pathlib.rst,
                                                                    main\Doc\library\(cpython-main)
      line 1282); backlink
                                                                    (Doc) (library)pathlib.rst, line
                                                                    1282); backlink
      Unknown interpreted text role "func".
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                                                                    main\Doc\library\(cpython-main)
                                                                    (Doc) (library) pathlib.rst, line
                                                                    1282); backlink
                                                                    Unknown interpreted text role 'meth''.
                                                             :meth:`PurePath.is_absolute`
:func:\os.path.isabs\
                                                                    System Message: ERROR/3
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      resources\sample-onboarding-
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      resources\cpython-main\Doc\library\
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      (cpython-main) (Doc) (library) pathlib.rst,
                                                                    main\Doc\library\(cpython-main)
      line 1285); backlink
                                                                    (Doc) (library)pathlib.rst, line
                                                                    1285); backlink
      Unknown interpreted text role "func".
                                                                    Unknown interpreted text role "meth".
                                                             :func:'PurePath.joinpath'
:func:\os.path.join\
                                                                    System Message: ERROR/3
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      System Message: ERROR/3 (D:\onboarding-
                                                                    resources\sample-onboarding-
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      resources\cpython-main\Doc\library\
                                                                    main\Doc\library\(cpython-main)
      (cpython-main) (Doc) (library)pathlib.rst,
      line 1286); backlink
                                                                    (Doc) (library)pathlib.rst, line
                                                                    1286); backlink
      Unknown interpreted text role "func".
                                                                    Unknown interpreted text role "func".
```

```
:mod:'os' and :mod:'os.path'
       System Message: ERROR/3 (D:\onboarding-
                                                              :mod:`pathlib`
       resources\sample-onboarding-
       {\tt resources \cpython-main \Doc\library \}
                                                                     System Message: ERROR/3
       (cpython-main) (Doc) (library)pathlib.rst,
                                                                     (D:\onboarding-
       line 1259); backlink
                                                                     resources\sample-onboarding-
       Unknown interpreted text role "mod".
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                                                                     main\Doc\library\(cpython-main)
                                                                     (Doc) (library) pathlib.rst, {f line}
       System Message: ERROR/3 (D:\onboarding-
                                                                     1259); backlink
       resources\sample-onboarding-
                                                                     Unknown interpreted text role
       {\tt resources \cpython-main \Doc\library \}
                                                                     "mod".
       (cpython-main) (Doc) (library)pathlib.rst,
       line 1259); backlink
       Unknown interpreted text role "mod".
                                                              :data:`PurePath.name`
:func:'os.path.basename'
                                                                     System Message: ERROR/3
       System Message: ERROR/3 (D:\onboarding-
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       resources\sample-onboarding-
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       (cpython-main) (Doc) (library) pathlib.rst,
                                                                     main\Doc\library\(cpython-main)
       line 1287); backlink
                                                                     (Doc) (library) pathlib.rst, {f line}
                                                                     1287); backlink
       Unknown interpreted text role "func".
                                                                     Unknown interpreted text role "data".
                                                              :data:`PurePath.parent
:func:\os.path.dirname\
                                                                     System Message: ERROR/3
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       resources\cpython-main\Doc\library\
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       (cpython-main) (Doc) (library) pathlib.rst,
                                                                     main\Doc\library\(cpython-main)
       line 1288); backlink
                                                                     (Doc) (library) pathlib.rst, line
                                                                     1288); backlink
       Unknown interpreted text role "func".
                                                                     Unknown interpreted text role "data".
                                                              :meth:`Path.samefile
:func:`os.path.samefile`
                                                                     System Message: ERROR/3
       System Message: ERROR/3 (D:\onboarding-
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                                                                     main\Doc\library\(cpython-main)
       line 1289); backlink
                                                                     (Doc) (library)pathlib.rst, line
                                                                     1289); backlink
       Unknown interpreted text role "func".
                                                                     Unknown interpreted text role "meth".
                                                              :data:`PurePath.suffix
:func:\os.path.splitext\
                                                                     System Message: ERROR/3
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       System Message: ERROR/3 (D:\onboarding-
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       (cpython-main) (Doc) (library) pathlib.rst,
                                                                     (Doc) (library)pathlib.rst, line
       line 1290); backlink
                                                                     1290); backlink
       Unknown interpreted text role "func".
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Footnotes
       :func:'os.path.abspath' normalizes the resulting path, which may change its meaning in the presence of symlinks, while
       :meth:'Path.absolute' does not.
```

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[2] :meth: Path.relative_to` requires self to be the subpath of the argument, but :finc:`os.path.relpath` does not.

 ${\tt resources} \verb|cpython-main| Doc\library| (cpython-main) (Doc) (library) pathlib.rst, \verb|line| 1295|; \verb|backlink| |$

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