

:mod:`glob` --- Unix style pathname pattern expansion

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

Unknown interpreted text role "mod".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library)glob.rst, line 4)

Unknown directive type "module".

```
.. module:: glob
   :synopsis: Unix shell style pathname pattern expansion.
```

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

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library)glob.rst, line 7); [backlink](#)

Unknown interpreted text role "source".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library)glob.rst, line 9)

Unknown directive type "index".

```
.. index:: single: filenames; pathname expansion
```

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Unknown directive type "index".

```
.. index::
   single: * (asterisk); in glob-style wildcards
   single: ? (question mark); in glob-style wildcards
   single: [] (square brackets); in glob-style wildcards
   single: ! (exclamation); in glob-style wildcards
   single: - (minus); in glob-style wildcards
   single: . (dot); in glob-style wildcards
```

The `:mod:`glob`` module finds all the pathnames matching a specified pattern according to the rules used by the Unix shell, although results are returned in arbitrary order. No tilde expansion is done, but `*`, `?`, and character ranges expressed with `[]` will be correctly matched. This is done by using the `:func:`os.scandir`` and `:func:`fnmatch.fnmatch`` functions in concert, and not by actually invoking a subshell. Note that unlike `:func:`fnmatch.fnmatch``, `:mod:`glob`` treats filenames beginning with a dot (`.`) as special cases. (For tilde and shell variable expansion, use `:func:`os.path.expanduser`` and `:func:`os.path.expandvars``.)

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Unknown interpreted text role "mod".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library)glob.rst, line 21); [backlink](#)

Unknown interpreted text role "func".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library)glob.rst, line 21); [backlink](#)

Unknown interpreted text role "func".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library)glob.rst, line 21); [backlink](#)

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System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library)glob.rst, line 21); [backlink](#)

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Unknown interpreted text role "func".

For a literal match, wrap the meta-characters in brackets. For example, '[?]' matches the character '?'.

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Unknown directive type "seealso".

```
.. seealso::
    The :mod:`pathlib` module offers high-level path objects.
```

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Unknown directive type "function".

```
.. function:: glob(pathname, *, root_dir=None, dir_fd=None, recursive=False, \
    include_hidden=False)
```

Return a possibly-empty list of path names that match **pathname**, which must be a string containing a path specification. **pathname** can be either absolute (like :file:`/usr/src/Python-1.5/Makefile`) or relative (like :file:`../Tools/*/*.gif`), and can contain shell-style wildcards. Broken symlinks are included in the results (as in the shell). Whether or not the results are sorted depends on the file system. If a file that satisfies conditions is removed or added during the call of this function, whether a path name for that file be included is unspecified.

If **root_dir** is not ``None``, it should be a :term:`path-like object` specifying the root directory for searching. It has the same effect on :func:`glob` as changing the current directory before calling it. If **pathname** is relative, the result will contain paths relative to **root_dir**.

This function can support :ref:`paths relative to directory descriptors <dir_fd>` with the **dir_fd** parameter.

```
.. index::
    single: **, in glob-style wildcards
```

If **recursive** is true, the pattern ``**`` will match any files and zero or more directories, subdirectories and symbolic links to directories. If the pattern is followed by an :data:`os.sep` or :data:`os.altsep` then files will not match.

If **include_hidden** is true, ``**`` pattern will match hidden directories.

```
.. audit-event:: glob.glob pathname,recursive glob.glob
.. audit-event:: glob.glob/2 pathname,recursive,root_dir,dir_fd glob.glob
```

```
.. note::
    Using the ``**`` pattern in large directory trees may consume
    an inordinate amount of time.
```

```
.. versionchanged:: 3.5
    Support for recursive globs using ``**``.

.. versionchanged:: 3.10
    Added the *root_dir* and *dir_fd* parameters.

.. versionchanged:: 3.11
    Added the *include_hidden* parameter.
```

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Unknown directive type "function".

```
.. function:: iglob(pathname, *, root_dir=None, dir_fd=None, recursive=False, \
    include_hidden=False)

Return an :term:`iterator` which yields the same values as :func:`glob`
without actually storing them all simultaneously.

.. audit-event:: glob.glob pathname,recursive glob.iglob
.. audit-event:: glob.glob/2 pathname,recursive,root_dir,dir_fd glob.iglob

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    Support for recursive globs using ``**``.

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Unknown directive type "function".

```
.. function:: escape(pathname)

Escape all special characters (``?'``, ``*`` and ``[``).
This is useful if you want to match an arbitrary literal string that may
have special characters in it. Special characters in drive/UNC
sharepoints are not escaped, e.g. on Windows
``escape('///?/c:/Quo vadis?.txt')`` returns ``'///?/c:/Quo vadis[?].txt'``.

.. versionadded:: 3.4
```

For example, consider a directory containing the following files: `:file:`1.gif``, `:file:`2.txt``, `:file:`card.gif`` and a subdirectory `:file:`sub`` which contains only the file `:file:`3.txt``. `:func:`glob`` will produce the following results. Notice how any leading components of the path are preserved.

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Unknown interpreted text role "file".

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Unknown interpreted text role "file".

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Unknown interpreted text role "file".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\ (cpython-main) (Doc) (library)glob.rst, line 117); [backlink](#)

Unknown interpreted text role "file".

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Unknown interpreted text role "file".

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Unknown interpreted text role "func".

```
>>> import glob
>>> glob.glob('./[0-9].*')
['./1.gif', './2.txt']
>>> glob.glob('*.*gif')
['1.gif', 'card.gif']
>>> glob.glob('?.gif')
['1.gif']
>>> glob.glob('**/*.txt', recursive=True)
['2.txt', 'sub/3.txt']
>>> glob.glob('./**/', recursive=True)
['./', './sub/']
```

If the directory contains files starting with . they won't be matched by default. For example, consider a directory containing :file:`card.gif` and :file:`.card.gif`:

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Unknown interpreted text role "file".

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Unknown interpreted text role "file".

```
>>> import glob
>>> glob.glob('*.*gif')
['card.gif']
>>> glob.glob('.*.*')
['.card.gif']
```

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Unknown directive type "seealso".

.. seealso::

Module :mod:`fnmatch`
Shell-style filename (not path) expansion