

os module

```
import os
```

Python's standard library module for interacting with the operating system.

Provides functions for file and directory operations, environment variables, and path manipulation.

Works cross-platform — the same code runs on Linux, Mac, and Windows.

os.makedirs()

```
import os
# safe to call repeatedly —
# silently succeeds if directory
# already exists
os.mak edi rs( " pat h/t o/d -
ire cto ry", exist_ ok= True)
# raises FileEx ist sError if
# directory already exists
os.mak edi rs( " pat h/t o/d -
ire cto ry", exist_ ok= False)
```

Creates a directory and any missing parent directories in the path.

exist_ok=True silently succeeds if the directory already exists.

exist_ok=False raises FileExistsError if the directory already exists.

os.path.join()

```
import os
os.pat h.j oin ("pa th", " to",
" fil e.t xt") # " pat h/t o/f -
ile.tx t"
os.pat h.j oin ("pa th/ to", " -
fil e.t xt") # " pat h/t o/f -
ile.tx t"
os.pat h.j oin ("/b ase ", " -
sub dir ", " fil e.t xt") #
"/ba se/ sub dir /fi le.t xt "
# safer than string concat -
enation
" pat h" + " /" + " fil e.t xt"
# fragile — hardcodes separator
os.pat h.j oin ("pa th", " fil -
e.t xt") # correct — uses OS
separator
```

Joins path components together using the correct separator for the current operating system.

Safer than string concatenation — handles trailing slashes and separators automatically.

On Linux/Mac uses /, on Windows uses \.



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