

### 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.makedirs("path/to/directory", exist_ok=True)
# raises FileNotFoundError if
# directory already exists
os.makedirs("path/to/directory", 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.path.join("path", "to", "file.txt") # "path/to/file.txt"
os.path.join("path/to", "file.txt") # "path/to/file.txt"
os.path.join("/base", "subdir", "file.txt") # "/base/subdir/file.txt"
# safer than string concatenation
"path" + "/" + "file.txt"
# fragile — hardcodes separator
os.path.join("path", "file.txt") # 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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