

# compress and decompress files

The zip format allows us to compress files without loss of information, saving storage space and keeping related documents in the same .zip file.

Using the zipfile module:

```
import zipfile
```

Zip files:

```
my_zip = zipfile.ZipFile("my_zip_file.zip", "w")  
my_zip.write("my_file.txt")  
my_zip.close()
```

→ writing mode  
→ compress file in my\_zip

Unzip files:

```
my_zip = zipfile.ZipFile("my_zip_file.zip", "r")  
my_zip.extractall()  
my_zip.extract("my_file.txt")
```

→ extract all files from my\_zip  
→ extract a specific file

Using the shutil module:

```
import shutil
```

Zip files:

```
shutil.make_archive(base_name, "zip", root_dir)
```

Unzip files:

```
shutil.unpack_archive(filename, extract_dir, "zip")
```