

Working with ZIP archives All Versions

Examples

Examining Zipfile Contents

There are a few ways to inspect the contents of a zipfile. You can use the `printdir` to just get a variety of information sent to stdout

```
with zipfile.ZipFile(filename) as zip:
    zip.printdir()

# Out:
# File Name                                Modified                                Size
# pyexpat.pyd                             2016-06-25 22:13:34                   157336
# python.exe                               2016-06-25 22:13:34                   39576
# python3.dll                              2016-06-25 22:13:34                   51864
# python35.dll                             2016-06-25 22:13:34                  3127960
# etc.
```

We can also get a list of filenames with the `namelist` method. Here, we simply print the list:

```
with zipfile.ZipFile(filename) as zip:
    print(zip.namelist())

# Out: ['pyexpat.pyd', 'python.exe', 'python3.dll', 'python35.dll', ... etc. ...]
```

Instead of `namelist`, we can call the `infolist` method, which returns a list of `ZipInfo` objects, which contain additional information about each file, for instance a timestamp and file size:

```
with zipfile.ZipFile(filename) as zip:
    info = zip.infolist()
    print(zip[0].filename)
    print(zip[0].date_time)
    print(info[0].file_size)

# Out: pyexpat.pyd
# Out: (2016, 6, 25, 22, 13, 34)
# Out: 157336
```

Opening Zip Files

To start, import the `zipfile` module, and set the filename.

```
import zipfile
filename = 'zipfile.zip'
```

Working with zip archives is very similar to [working with files](#), you create the object by opening the zipfile, which lets you work on it before closing the file up again.

```
zip = zipfile.ZipFile(filename)
print(zip)
# <zipfile.ZipFile object at 0x000000002E51A90>
zip.close()
```

In Python 2.7 and in Python 3 versions higher than 3.2, we can use the `with` context manager. We open the file in "read" mode, and then print a list of filenames:

```
with zipfile.ZipFile(filename, 'r') as z:
    print(zip)
# <zipfile.ZipFile object at 0x000000002E51A90>
```

Creating new archives

To create new archive open zipfile with write mode.

```
import zipfile
new_arch=zipfile.ZipFile("filename.zip",mode="w")
```

To add files to this archive use `write()` method.

```
new_arch.write('filename.txt','filename_in_archive.txt') #first parameter is filename and second is filename in archive
new_arch.close()
```

If you want to write string of bytes into the archive you can use `writestr()` method.

```
str_bytes="string buffer"
new_arch.writestr('filename_string_in_archive.txt',str_bytes)
new_arch.close()
```

Extracting zip file contents to a directory

Extract all file contents of a zip file

```
import zipfile
with zipfile.ZipFile('zipfile.zip','r') as zfile:
    zfile.extractall('path')
```

If you want extract single files use `extract` method, it takes name list and path as input parameter

```
import zipfile
f=open('zipfile.zip','rb')
zfile=zipfile.ZipFile(f)
for cont in zfile.namelist():
    zfile.extract(cont,path)
```

Syntax

```
import zipfile
```

```
class zipfile. ZipFile ( file, mode='r', compression=ZIP_STORED, allowZip64=True )
```

Parameters

Remarks

If you try to open a file that is not a ZIP file, the exception `zipfile.BadZipFile` is raised.

In Python 2.7, this was spelled `zipfile.BadZipfile`, and this old name is retained alongside the new one in Python 3.2+