

numpy.load

`numpy.load(file, mmap_mode=None, allow_pickle=False, fix_imports=True, encoding='ASCII')`

[\[source\]](#)

Load arrays or pickled objects from `.npy`, `.npz` or pickled files.

Warning

Loading files that contain object arrays uses the `pickle` module, which is not secure against erroneous or maliciously constructed data. Consider passing `allow_pickle=False` to load data that is known not to contain object arrays for the safer handling of untrusted sources.

Parameters: `file` : *file-like object, string, or pathlib.Path*

The file to read. File-like objects must support the `seek()` and `read()` methods. Pickled files require that the file-like object support the `readline()` method as well.

`mmap_mode` : *{None, 'r+', 'r', 'w+', 'c'}, optional*

If not None, then memory-map the file, using the given mode (see [numpy.memmap](#) for a detailed description of the modes). A memory-mapped array is kept on disk. However, it can be accessed and sliced like any ndarray. Memory mapping is especially useful for accessing small fragments of large files without reading the entire file into memory.

`allow_pickle` : *bool, optional*

Allow loading pickled object arrays stored in npy files. Reasons for disallowing pickles include security, as loading pickled data can execute arbitrary code. If pickles are disallowed, loading object arrays will fail. Default: False
Changed in version 1.16.3: Made default False in response to CVE-2019-6446.

`fix_imports` : *bool, optional*

Only useful when loading Python 2 generated pickled files on Python 3, which includes npy/npz files containing object arrays. If `fix_imports` is True, pickle will try to map the old Python 2 names to the new names used in Python 3.

`encoding` : *str, optional*

What encoding to use when reading Python 2 strings. Only useful when loading Python 2 generated pickled files in Python 3, which includes npy/npz files containing object arrays. Values other than 'latin1', 'ASCII', and 'bytes' are not allowed, as they can corrupt numerical data. Default: 'ASCII'

Returns: `result` : *array, tuple, dict, etc.*

Data stored in the file. For `.npz` files, the returned instance of NpzFile class must be closed to avoid leaking file descriptors.

Raises: `OSError`

If the input file does not exist or cannot be read.

`UnpicklingError`

If `allow_pickle=True`, but the file cannot be loaded as a pickle.

`ValueError`

The file contains an object array, but `allow_pickle=False` given.

