
entrypoints Documentation

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Contents

1	entrypoints API	3
1.1	High-level API	3
1.2	EntryPoint objects	3
1.3	Exceptions	4
2	Indices and tables	5
	Python Module Index	7
	Index	9

This package is in maintenance-only mode. New code should use the `importlib.metadata` module in the Python standard library to find and load entry points.

Entry points are a way for Python packages to advertise objects with some common interface. The most common examples are `console_scripts` entry points, which define shell commands by identifying a Python function to run.

Groups of entry points, such as `console_scripts`, point to objects with similar interfaces. An application might use a group to find its plugins, or multiple groups if it has different kinds of plugins.

The **entrypoints** module contains functions to find and load entry points. You can install it from PyPI with `pip install entrypoints`.

To advertise entry points when distributing a package, see [entry_points in the Python Packaging User Guide](#).

The `pkg_resources` module distributed with `setuptools` provides a way to discover entrypoints as well, but it contains other functionality unrelated to entrypoint discovery, and it does a lot of work at import time. Merely *importing* `pkg_resources` causes it to scan the files of all installed packages. Thus, in environments where a large number of packages are installed, importing `pkg_resources` can be very slow (several seconds).

By contrast, `entrypoints` is focused solely on entrypoint discovery and it is faster. Importing `entrypoints` does not scan anything, and getting a given entrypoint group performs a more focused scan.

When there are multiple versions of the same distribution in different directories on `sys.path`, `entrypoints` follows the rule that the first one wins. In most cases, this follows the logic of imports. Similarly, `EntryPoints` relies on `pip` to ensure that only one `.dist-info` or `.egg-info` directory exists for each installed package. There is no reliable way to pick which of several *.dist-info* folders accurately relates to the importable modules.

Contents:

1.1 High-level API

`entrypoints.get_single` (*group*, *name*, *path=None*)

Find a single entry point.

Returns an *EntryPoint* object, or raises *NoSuchEntryPoint* if no match is found.

`entrypoints.get_group_named` (*group*, *path=None*)

Find a group of entry points with unique names.

Returns a dictionary of names to *EntryPoint* objects.

`entrypoints.get_group_all` (*group*, *path=None*)

Find all entry points in a group.

Returns a list of *EntryPoint* objects.

These functions will all use `sys.path` by default if you don't specify the *path* parameter. This is normally what you want, so you shouldn't need to pass *path*.

1.2 EntryPoint objects

class `entrypoints.EntryPoint` (*name*, *module_name*, *object_name*, *extras=None*, *distro=None*)

name

The name identifying this entry point

module_name

The name of an importable module to which it refers

object_name

The dotted object name within the module, or *None* if the entry point refers to a module itself.

extras

Extra setuptools features related to this entry point as a list, or *None*

distro

The distribution which advertised this entry point - a *Distribution* instance or *None*

load()

Load the object to which this entry point refers.

classmethod from_string (*epstr, name, distro=None*)

Parse an entry point from the syntax in entry_points.txt

Parameters

- **epstr** (*str*) – The entry point string (not including ‘name =’)
- **name** (*str*) – The name of this entry point
- **distro** (*Distribution*) – The distribution in which the entry point was found

Return type *EntryPoint*

Raises *BadEntryPoint* – if *epstr* can’t be parsed as an entry point.

class entrypoints.**Distribution** (*name, version*)

name

The name of this distribution

version

The version of this distribution, as a string

1.3 Exceptions

exception entrypoints.**BadEntryPoint** (*epstr*)

Raised when an entry point can’t be parsed.

exception entrypoints.**NoSuchEntryPoint** (*group, name*)

Raised by *get_single()* when no matching entry point is found.

CHAPTER 2

Indices and tables

- `genindex`
- `modindex`
- `search`

e

entrypoints, 3

B

BadEntryPoint, 4

D

Distribution (*class in entrypoints*), 4

distro (*entrypoints.EntryPoint attribute*), 4

E

EntryPoint (*class in entrypoints*), 3

entrypoints (*module*), 3

extras (*entrypoints.EntryPoint attribute*), 3

F

from_string() (*entrypoints.EntryPoint class method*), 4

G

get_group_all() (*in module entrypoints*), 3

get_group_named() (*in module entrypoints*), 3

get_single() (*in module entrypoints*), 3

L

load() (*entrypoints.EntryPoint method*), 4

M

module_name (*entrypoints.EntryPoint attribute*), 3

N

name (*entrypoints.Distribution attribute*), 4

name (*entrypoints.EntryPoint attribute*), 3

NoSuchEntryPoint, 4

O

object_name (*entrypoints.EntryPoint attribute*), 3

V

version (*entrypoints.Distribution attribute*), 4