entrypoints Documentation

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Contents

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.

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CHAPTER 1

entrypoints API

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*.

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 itselfs.

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

distribution
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

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

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