
Middlefield

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Middlefield is a framework for building build tools. Since every build tool is different, middlefield is plugin-based. Every plugin must be registered with `gather` in its `setup.py`.

CHAPTER 1

Registering

The `middlefield.COMMAND` object collects dependencies and commands. It is an `elcaminoreal.Commands`.

CHAPTER 2

Built-in functionality

Middlefield itself registers two important things:

- `executor` is a dependency that maps to a `seashore.Executor`.
- `self-build` is a command that will rebuild a middlefield pex – with the requested packages added (for plugins)

CHAPTER 3

Self Build

The `self-build` commands builds a `middlefield`-based PEX with the requested plugins. This allows distributing a single file which knows which `middlefield` plugins to use

Options:

- `--requirements` takes a `requirements.txt` file. This option can be given several times (or none)
- `--package` specifies a PyPI package name. This option can be given several times (or none)
- `--output` specifies the output file. The file will be executable. It is suggested that the name will be something similar to `mf` or `mf.pex`, for consistency.
- `--shebang` specifies the shebang line the interpreter will use. Often, `/usr/bin/env python3` is a good choice – but that depends on the way the Python interpreter is installed.