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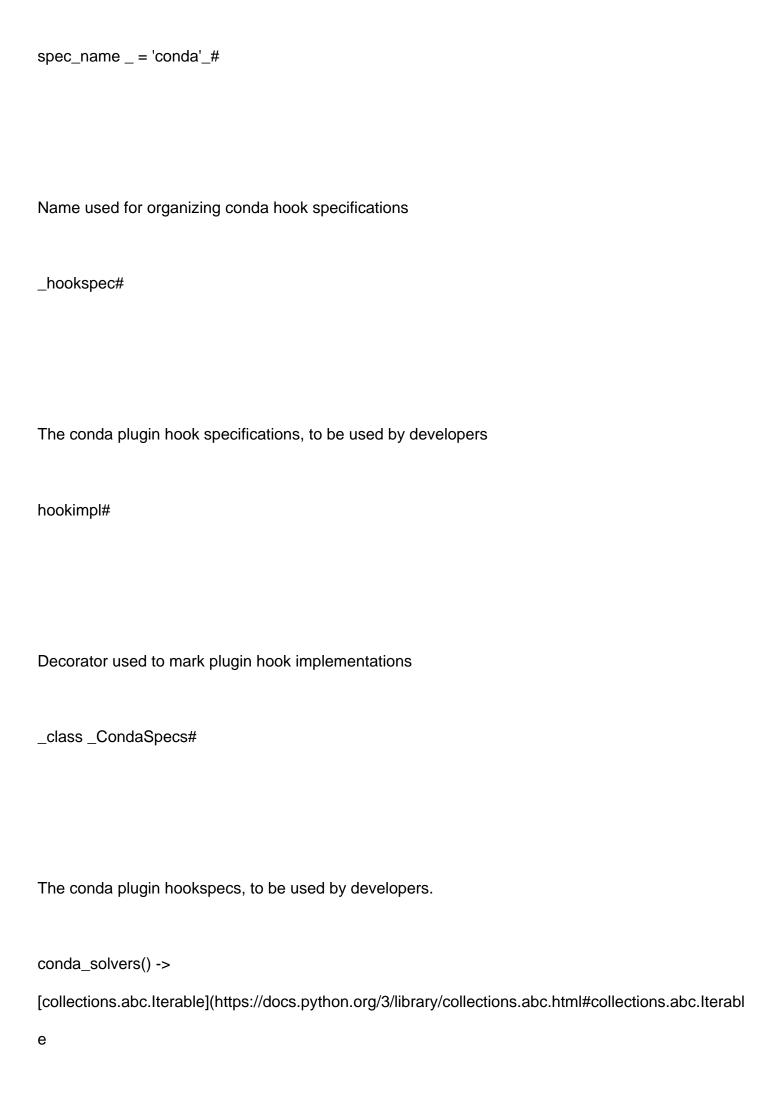
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# `hookspec`#
Pluggy hook specifications ("hookspecs") to register conda plugins.
Each hookspec defined in `CondaSpecs` contains an example of how to use it.
## Classes#
`CondaSpecs` | The conda plugin hookspecs, to be used by developers.
---|---
## Attributes#
`spec_name` | Name used for organizing conda hook specifications
---|---
`_hookspec` | The conda plugin hook specifications, to be used by developers
'hookimpl' | Decorator used to mark plugin hook implementations
```

* [`cli`](../../conda_env/cli/index.html)



```
"\(in Python
v3.13\)")[[conda.plugins.types.CondaSolver](../../plugins/solvers.html#conda.plugins.types.Cond
aSolver
"conda.plugins.types.CondaSolver")]#
Register solvers in conda.
**Example:**
  import logging
  from conda import plugins
  from conda.core import solve
  log = logging.getLogger(__name__)
  class VerboseSolver(solve.Solver):
     def solve_final_state(self, *args, **kwargs):
       log.info("My verbose solver!")
       return super().solve_final_state(*args, **kwargs)
```

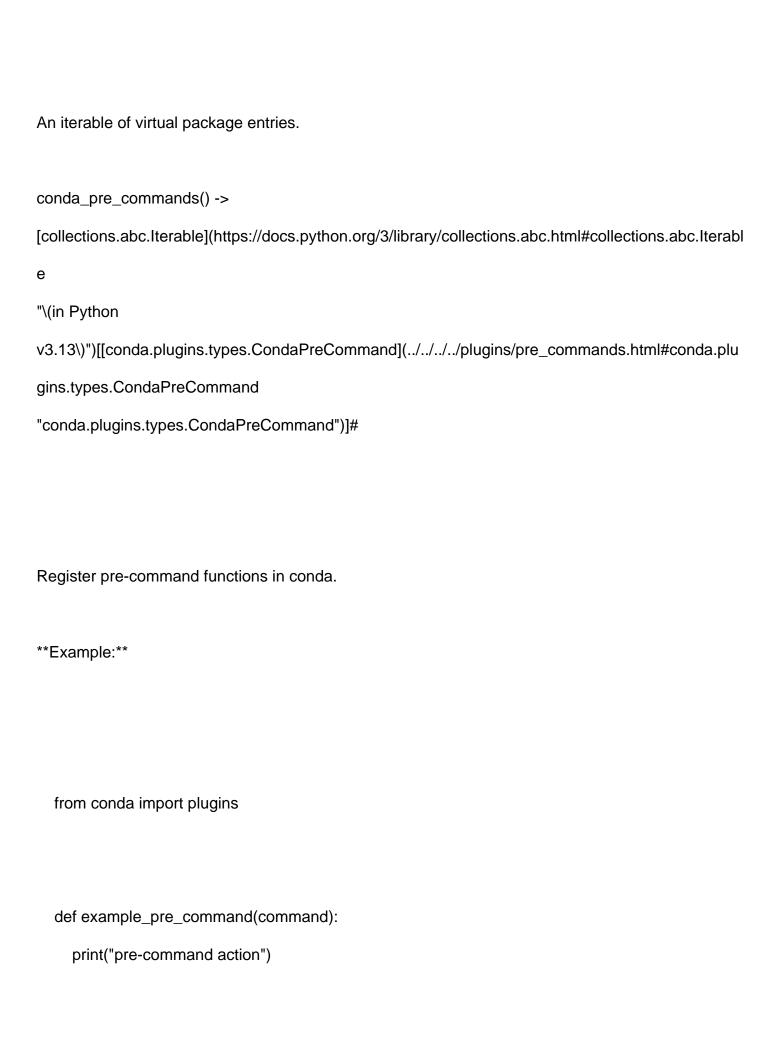
```
@plugins.hookimpl
  def conda_solvers():
     yield plugins.CondaSolver(
       name="verbose-classic",
       backend=VerboseSolver,
     )
Returns:
An iterable of solver entries.
conda_subcommands() ->
[collections.abc.lterable](https://docs.python.org/3/library/collections.abc.html#collections.abc.lterabl
е
"\(in Python
v3.13\)")[[conda.plugins.types.CondaSubcommand](../../../plugins/subcommands.html#conda.plugi
ns.types.CondaSubcommand
"conda.plugins.types.CondaSubcommand")]#
Register external subcommands in conda.
**Example:**
```

```
from conda import plugins
  def example_command(args):
    print("This is an example command!")
  @plugins.hookimpl
  def conda_subcommands():
    yield plugins.CondaSubcommand(
       name="example",
       summary="example command",
       action=example_command,
    )
Returns:
An iterable of subcommand entries.
conda_virtual_packages() ->
[collections.abc.lterable](https://docs.python.org/3/library/collections.abc.html#collections.abc.lterabl
```

```
е
```

```
"\(in Python
v3.13\)")[[conda.plugins.types.CondaVirtualPackage](../../../plugins/virtual_packages.html#conda.p
lugins.types.CondaVirtualPackage
"conda.plugins.types.CondaVirtualPackage")]#
Register virtual packages in Conda.
**Example:**
  from conda import plugins
  @plugins.hookimpl
  def conda_virtual_packages():
    yield plugins.CondaVirtualPackage(
       name="my_custom_os",
       version="1.2.3",
       build="x86_64",
     )
```

Returns:



```
@plugins.hookimpl
  def conda_pre_commands():
    yield plugins.CondaPreCommand(
       name="example-pre-command",
       action=example_pre_command,
       run_for={"install", "create"},
    )
conda_post_commands() ->
[collections.abc.lterable](https://docs.python.org/3/library/collections.abc.html#collections.abc.lterabl
е
"\(in Python
v3.13\)")[[conda.plugins.types.CondaPostCommand](../../../plugins/post_commands.html#conda.pl
ugins.types.CondaPostCommand
"conda.plugins.types.CondaPostCommand")]#
Register post-command functions in conda.
**Example:**
```

from conda import plugins

```
def example_post_command(command):
    print("post-command action")
  @plugins.hookimpl
  def conda_post_commands():
    yield plugins.CondaPostCommand(
       name="example-post-command",
       action=example_post_command,
       run_for={"install", "create"},
    )
conda_auth_handlers() ->
[collections.abc.lterable](https://docs.python.org/3/library/collections.abc.html#collections.abc.lterabl
е
"\(in Python
v3.13\)")[[conda.plugins.types.CondaAuthHandler](../../../plugins/auth_handlers.html#conda.plugin
s.types.CondaAuthHandler
"conda.plugins.types.CondaAuthHandler")]#
```

Register a conda auth handler derived from the requests API.

```
This plugin hook allows attaching requests auth handler subclasses, e.g. when
authenticating requests against individual channels hosted at HTTP/HTTPS
services.
**Example:**
  import os
  from conda import plugins
  from requests.auth import AuthBase
  class EnvironmentHeaderAuth(AuthBase):
    def __init__(self, *args, **kwargs):
      self.username = os.environ["EXAMPLE_CONDA_AUTH_USERNAME"]
      self.password = os.environ["EXAMPLE_CONDA_AUTH_PASSWORD"]
    def __call__(self, request):
       request.headers["X-Username"] = self.username
       request.headers["X-Password"] = self.password
       return request
  @plugins.hookimpl
  def conda_auth_handlers():
    yield plugins.CondaAuthHandler(
```

```
name="environment-header-auth",
       handler=EnvironmentHeaderAuth,
    )
conda_health_checks() ->
[collections.abc.lterable](https://docs.python.org/3/library/collections.abc.html#collections.abc.lterabl
е
"\(in Python
v3.13\)")[[conda.plugins.types.CondaHealthCheck](../../../plugins/health_checks.html#conda.plugin
s.types.CondaHealthCheck
"conda.plugins.types.CondaHealthCheck")]#
Register health checks for conda doctor.
This plugin hook allows you to add more "health checks" to conda doctor that
you can write to diagnose problems in your conda environment. Check out the
health checks already shipped with conda for inspiration.
**Example:**
  from conda import plugins
```

```
def example_health_check(prefix: str, verbose: bool):
     print("This is an example health check!")
  @plugins.hookimpl
  def conda_health_checks():
     yield plugins.CondaHealthCheck(
       name="example-health-check",
       action=example_health_check,
     )
conda_pre_solves() ->
[collections.abc.lterable](https://docs.python.org/3/library/collections.abc.html#collections.abc.lterabl
е
"\(in Python
v3.13\)")[[conda.plugins.types.CondaPreSolve](../types/index.html#conda.plugins.types.CondaPreS
olve
"conda.plugins.types.CondaPreSolve")]#
Register pre-solve functions in conda that are used in the general solver API,
before the solver processes the package specs in search of a solution.
```

Example:

```
from conda import plugins
  from conda.models.match_spec import MatchSpec
  def example_pre_solve(
    specs_to_add: frozenset[MatchSpec],
    specs_to_remove: frozenset[MatchSpec],
  ):
    print(f"Adding {len(specs_to_add)} packages")
    print(f"Removing {len(specs_to_remove)} packages")
  @plugins.hookimpl
  def conda_pre_solves():
    yield plugins.CondaPreSolve(
       name="example-pre-solve",
       action=example_pre_solve,
    )
conda_post_solves() ->
[collections.abc.Iterable](https://docs.python.org/3/library/collections.abc.html#collections.abc.Iterabl
е
"\(in Python
```



def example_post_solve(

unlink_precs: tuple[PackageRecord, ...],

print(f"Uninstalling {len(unlink_precs)} packages")

print(f"Installing {len(link_precs)} packages")

link_precs: tuple[PackageRecord, ...],

repodata_fn: str,

):

```
@plugins.hookimpl
  def conda_post_solves():
     yield plugins.CondaPostSolve(
       name="example-post-solve",
       action=example_post_solve,
     )
conda_settings() ->
[collections.abc.lterable](https://docs.python.org/3/library/collections.abc.html#collections.abc.lterabl
е
"\(in Python
v3.13\)")[[conda.plugins.types.CondaSetting](../../../plugins/settings.html#conda.plugins.types.Con
daSetting
"conda.plugins.types.CondaSetting")]#
Register new setting
The example below defines a simple string type parameter
**Example:**
```

from conda import plugins

from conda.common.configuration import PrimitiveParameter, SequenceParameter

```
@plugins.hookimpl
  def conda_settings():
    yield plugins.CondaSetting(
       name="example_option",
       description="This is an example option",
       parameter=PrimitiveParameter("default_value", element_type=str),
       aliases=("example_option_alias",),
    )
conda_reporter_backends() ->
[collections.abc.lterable](https://docs.python.org/3/library/collections.abc.html#collections.abc.lterabl
"\(in Python
v3.13\)")[[conda.plugins.types.CondaReporterBackend](../types/index.html#conda.plugins.types.Con
daReporterBackend
"conda.plugins.types.CondaReporterBackend")]#
```

The example below defines a reporter backend that uses the `pprint` module in

Python.

Register new reporter backend

е

```
**Example:**
  from pprint import pformat
  from conda import plugins
  from conda.plugins.types import (
    CondaReporterBackend,
    ReporterRendererBase,
    ProgressBarBase,
  )
  class PprintReporterRenderer(ReporterRendererBase):
    "Implementation of the ReporterRendererBase"
    def detail_view(self, data):
       return pformat(data)
    def envs_list(self, data):
      formatted_data = pformat(data)
       return f"Environments: {formatted_data}"
    def progress_bar(self, description, io_context_manager) -> ProgressBarBase:
       "Returns our custom progress bar implementation"
```

```
return PprintProgressBar(description, io_context_manager)
```

```
class PprintProgressBar(ProgressBarBase):
     "Blank implementation of ProgressBarBase which does nothing"
    def update_to(self, fraction) -> None:
       pass
    def refresh(self) -> None:
       pass
    def close(self) -> None:
       pass
  @plugins.hookimpl
  def conda_reporter_backends():
    yield CondaReporterBackend(
       name="pprint",
       description="Reporter backend based on the pprint module",
       renderer=PprintReporterRenderer,
    )
conda_session_headers(_host:
[str](https://docs.python.org/3/library/stdtypes.html#str "\(in Python
```

```
v3.13\)")_) ->
[collections.abc.lterable](https://docs.python.org/3/library/collections.abc.html#collections.abc.lterabl
е
"\(in Python
v3.13\)")[[conda.plugins.types.CondaRequestHeader](../../../plugins/request_headers.html#conda.
plugins.types.CondaRequestHeader
"conda.plugins.types.CondaRequestHeader")]#
Register new HTTP request headers
The example below defines how to add HTTP headers for all requests with the
hostname of `example.com`.
**Example:**
  from conda import plugins
  HOSTS = {"example.com", "sub.example.com"}
  @plugins.hookimpl
  def conda_session_headers(host: str):
     if host in HOSTS:
```

```
yield plugins.CondaRequestHeader(
          name="Example-Header",
         value="example",
       )
conda_request_headers(_host :
[str](https://docs.python.org/3/library/stdtypes.html#str "\(in Python
v3.13\)")_, _path : [str](https://docs.python.org/3/library/stdtypes.html#str
"\(in Python v3.13\)")_) ->
[collections.abc.lterable](https://docs.python.org/3/library/collections.abc.html#collections.abc.lterabl
"\(in Python
v3.13\)")[[conda.plugins.types.CondaRequestHeader](../../../plugins/request_headers.html#conda.
plugins.types.CondaRequestHeader
"conda.plugins.types.CondaRequestHeader")]#
Register new HTTP request headers
The example below defines how to add HTTP headers for all requests with the
hostname of `example.com` and a `path/to/endpoint.json` path.
```

е

Example:

```
from conda import plugins
```

```
HOSTS = {"example.com", "sub.example.com"}
 ENDPOINT = "/path/to/endpoint.json"
 @plugins.hookimpl
def conda_request_headers(host: str, path: str):
   if host in HOSTS and path == ENDPOINT:
     yield plugins.CondaRequestHeader(
        name="Example-Header",
       value="example",
     )
On this page
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  * `CondaSpecs.conda_virtual_packages()`
```

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