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# [`types`](https://docs.python.org/3/library/types.html#module-types "\(in
Python v3.13\)")#
Definition of specific return types for use when defining a conda plugin hook.
Each type corresponds to the plugin hook for which it is used.
## Classes#
[`CondaSubcommand`](../../../plugins/subcommands.html#conda.plugins.types.CondaSubcomman
d "conda.plugins.types.CondaSubcommand") | Return type to use when defining a conda
subcommand plugin hook.
---|---
[`CondaVirtualPackage`](../../../plugins/virtual_packages.html#conda.plugins.types.CondaVirtualPa
ckage "conda.plugins.types.CondaVirtualPackage") | Return type to use when defining a conda
virtual package plugin hook.
```

[`CondaSolver`](../../../plugins/solvers.html#conda.plugins.types.CondaSolver

"conda.plugins.types.CondaSolver") | Return type to use when defining a conda solver plugin hook.

[`CondaPreCommand`](../../../plugins/pre\_commands.html#conda.plugins.types.CondaPreCommand "conda.plugins.types.CondaPreCommand") | Return type to use when defining a conda pre-command plugin hook.

[`CondaPostCommand`](../../../plugins/post\_commands.html#conda.plugins.types.CondaPostCommand "conda.plugins.types.CondaPostCommand") | Return type to use when defining a conda post-command plugin hook.

`ChannelNameMixin` | Class mixin to make all plugin implementations compatible, e.g. when they `ChannelAuthBase` | Base class that we require all plugin implementations to use to be compatible.

[`CondaAuthHandler`](../../../plugins/auth\_handlers.html#conda.plugins.types.CondaAuthHandler "conda.plugins.types.CondaAuthHandler") | Return type to use when the defining the conda auth handlers hook.

[`CondaHealthCheck`](../../../plugins/health\_checks.html#conda.plugins.types.CondaHealthCheck "conda.plugins.types.CondaHealthCheck") | Return type to use when defining conda health checks plugin hook.

`CondaPreSolve` | Return type to use when defining a conda pre-solve plugin hook.

`CondaPostSolve` | Return type to use when defining a conda post-solve plugin hook.

[`CondaSetting`](../../../plugins/settings.html#conda.plugins.types.CondaSetting "conda.plugins.types.CondaSetting") | Return type to use when defining a conda setting plugin hook.

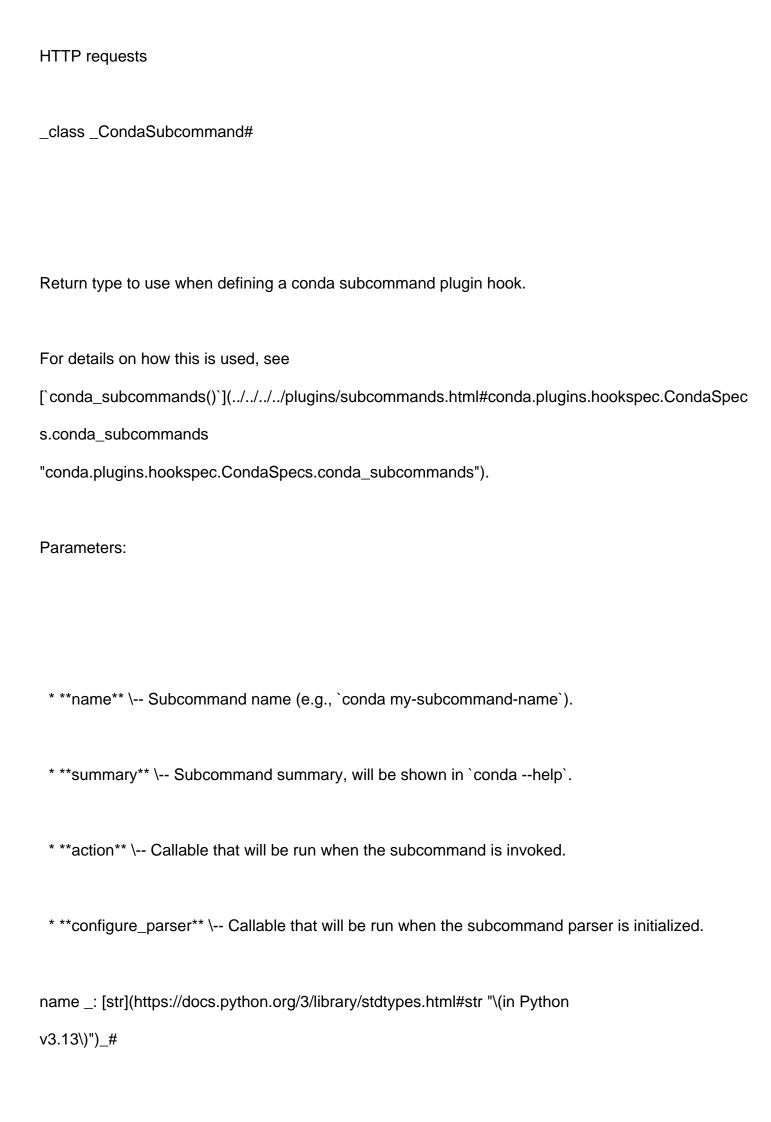
`ProgressBarBase` | Helper class that provides a standard way to create an ABC using

`SpinnerBase` | Helper class that provides a standard way to create an ABC using

`ReporterRendererBase` | Base class for all reporter renderers.

`CondaReporterBackend` | Return type to use when defining a conda reporter backend plugin hook.

[`CondaRequestHeader`](../../../plugins/request\_headers.html#conda.plugins.types.CondaRequest Header "conda.plugins.types.CondaRequestHeader") | Define vendor specific headers to include



summary \_: [str](https://docs.python.org/3/library/stdtypes.html#str "\(in Python v3.13\)")\_#

action \_:

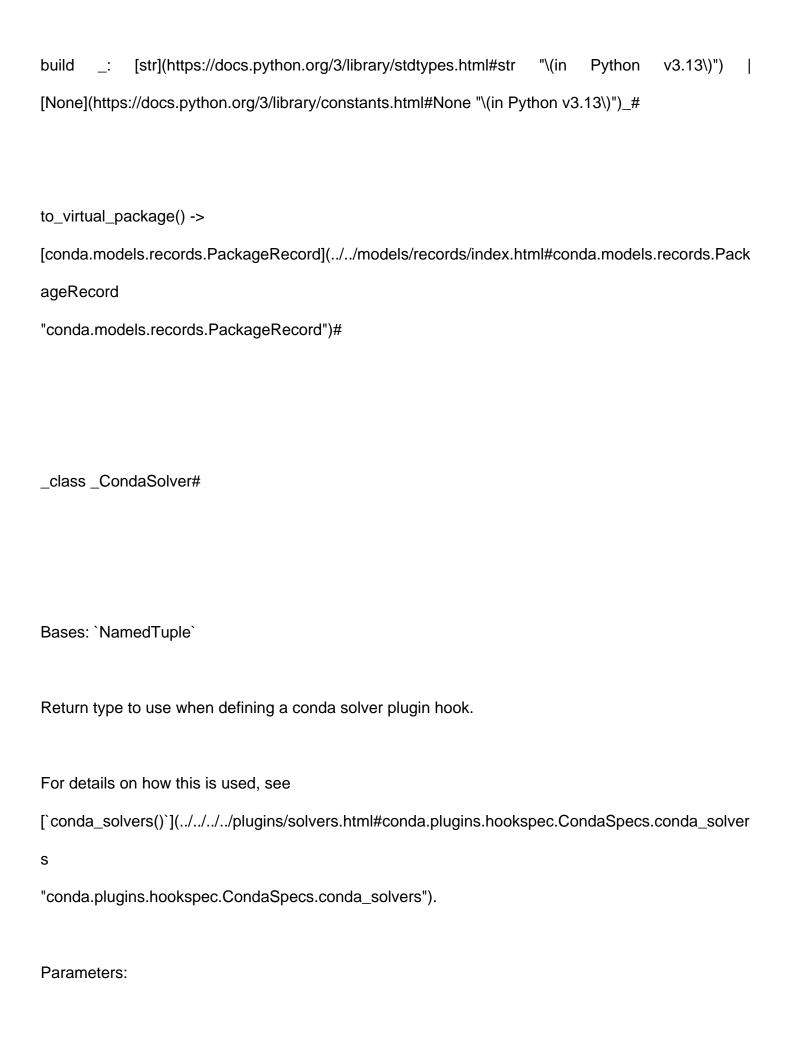
Callable[[[argparse.Namespace](https://docs.python.org/3/library/argparse.html#argparse.Namespace "\(in Python v3.13\)") | [tuple](https://docs.python.org/3/library/stdtypes.html#tuple "\(in Python v3.13\)")[[str](https://docs.python.org/3/library/stdtypes.html#str "\(in Python v3.13\)")]], [int](https://docs.python.org/3/library/functions.html#int "\(in Python v3.13\)") | [None](https://docs.python.org/3/library/constants.html#None "\(in Python v3.13\)")]\_#

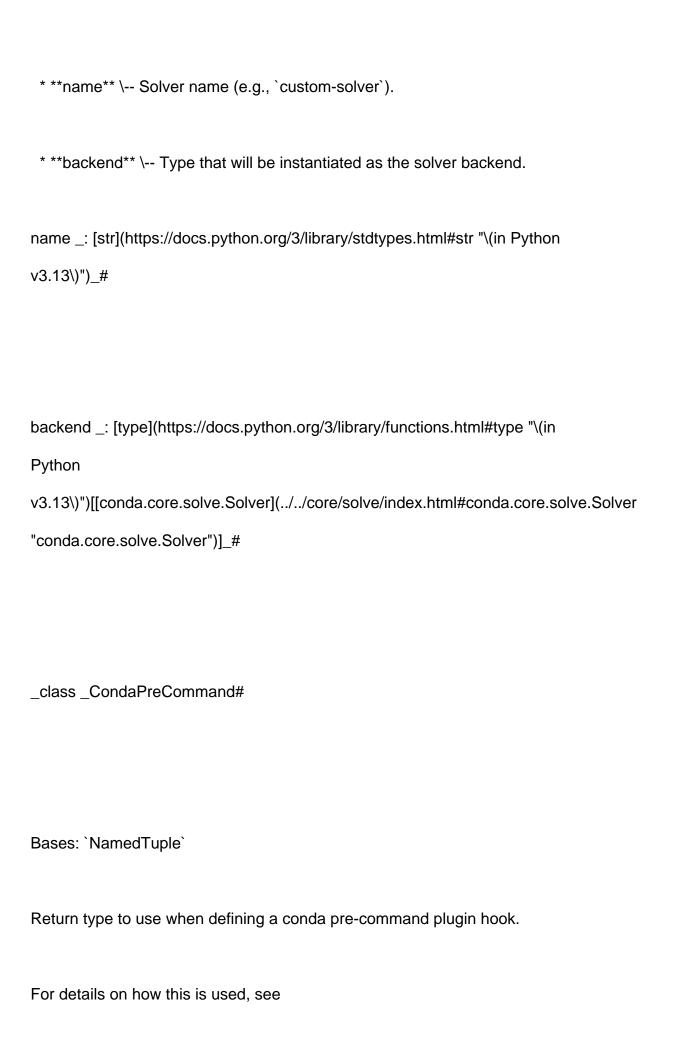
configure\_parser \_\_:

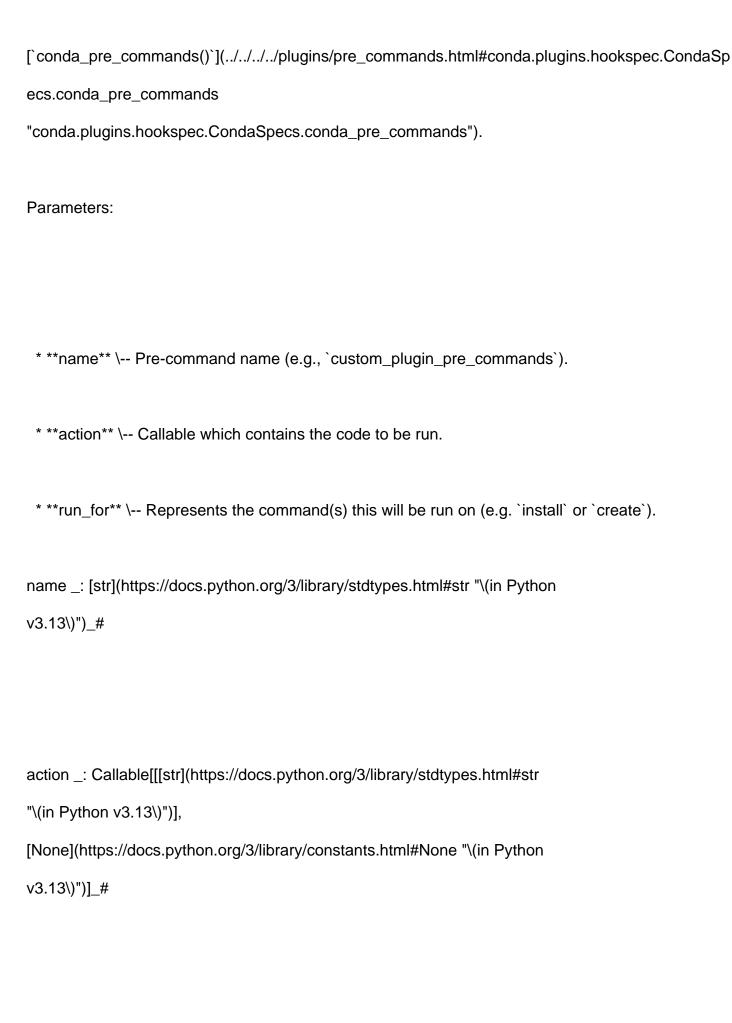
Callable[[[argparse.ArgumentParser](https://docs.python.org/3/library/argparse.html#argparse.ArgumentParser "\(in Python v3.13\)")], [None](https://docs.python.org/3/library/constants.html#None "\(in Python v3.13\)")] | [None](https://docs.python.org/3/library/constants.html#None "\(in Python v3.13\)")\_#

\_class \_CondaVirtualPackage#

Bases: `NamedTuple` Return type to use when defining a conda virtual package plugin hook. For details on how this is used, see [`conda\_virtual\_packages()`](../../../plugins/virtual\_packages.html#conda.plugins.hookspec.Conda Specs.conda\_virtual\_packages "conda.plugins.hookspec.CondaSpecs.conda\_virtual\_packages"). Parameters: \* \*\*name\*\* \-- Virtual package name (e.g., `my\_custom\_os`). \* \*\*version\*\* \-- Virtual package version (e.g., `1.2.3`). \* \*\*build\*\* \-- Virtual package build string (e.g., `x86\_64`). name \_: [str](https://docs.python.org/3/library/stdtypes.html#str "\(in Python v3.13\)")\_# version [str](https://docs.python.org/3/library/stdtypes.html#str "\(in v3.13\)") Python [None](https://docs.python.org/3/library/constants.html#None "\(in Python v3.13\)")\_#







run\_for \_: [set](https://docs.python.org/3/library/stdtypes.html#set "\(in



name \_: [str](https://docs.python.org/3/library/stdtypes.html#str "\(in Python v3.13\)")\_#

action \_: Callable[[[str](https://docs.python.org/3/library/stdtypes.html#str "\(in Python v3.13\)")],

[None](https://docs.python.org/3/library/constants.html#None "\(in Python v3.13\)")]\_#

run\_for \_: [set](https://docs.python.org/3/library/stdtypes.html#set "\(in
Python v3.13\)")[[str](https://docs.python.org/3/library/stdtypes.html#str
"\(in Python v3.13\)")]\_#

\_class \_ChannelNameMixin(\_channel\_name : [str](https://docs.python.org/3/library/stdtypes.html#str "\(in Python v3.13\)")\_, \_\* args\_, \_\*\* kwargs\_)#

Class mixin to make all plugin implementations compatible, e.g. when they use an existing (e.g. 3rd party) requests authentication handler.



\_class \_ChannelAuthBase(\_channel\_name : [str](https://docs.python.org/3/library/stdtypes.html#str "\(in Python v3.13\)")\_, \_\* args\_, \_\*\* kwargs\_)#

Bases: `ChannelNameMixin`, `requests.auth.AuthBase`

Base class that we require all plugin implementations to use to be compatible.

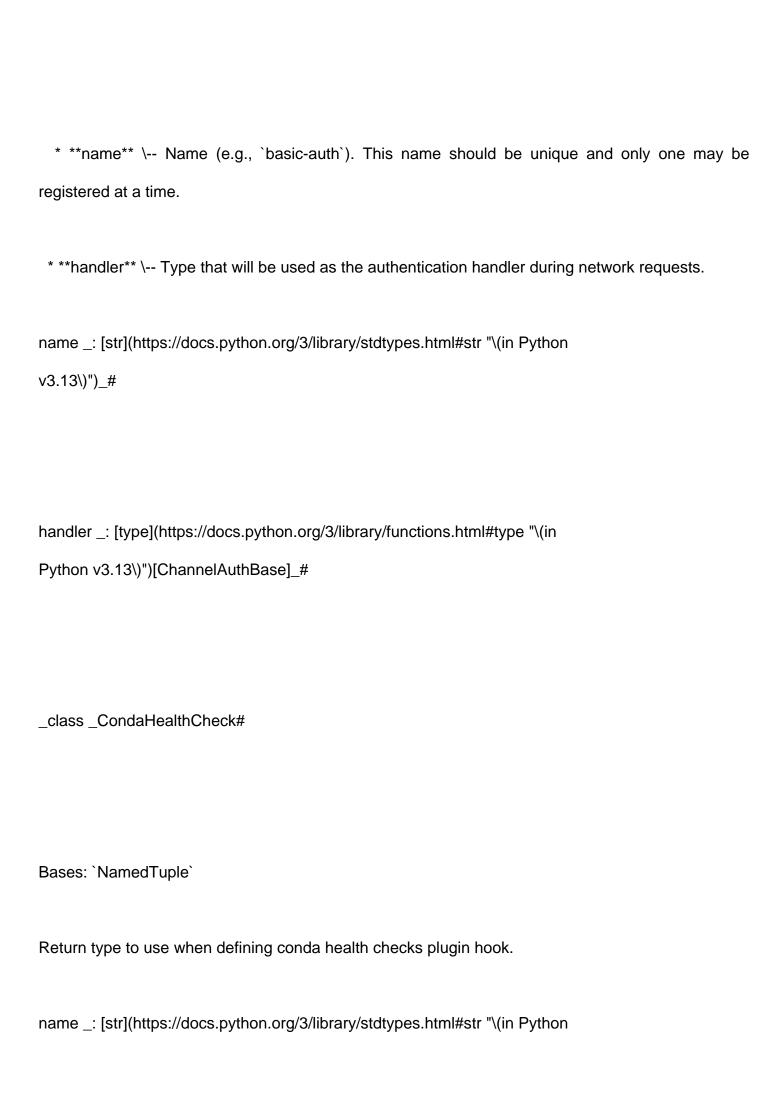
Authentication is tightly coupled with individual channels. Therefore, an additional `channel\_name` property must be set on the `requests.auth.AuthBase` based class.

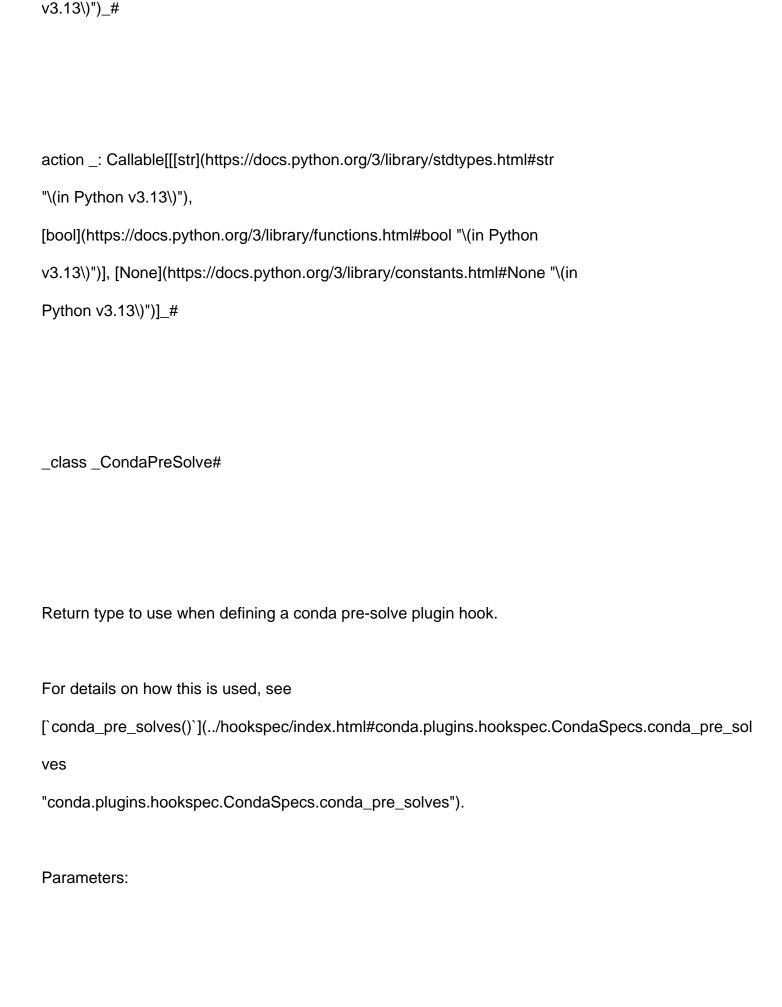
class CondaAuthHandler#

Bases: `NamedTuple`

Return type to use when the defining the conda auth handlers hook.

Parameters:



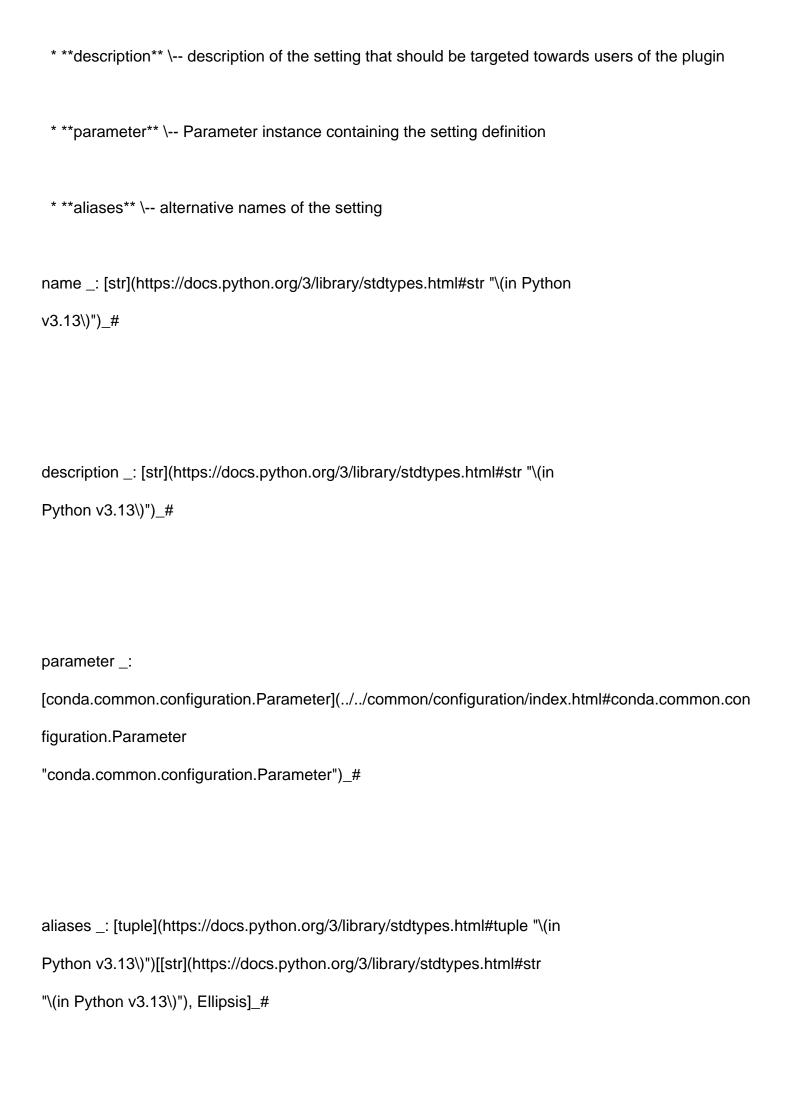


```
* **name** \-- Pre-solve name (e.g., `custom_plugin_pre_solve`).
 * **action** \-- Callable which contains the code to be run.
name _: [str](https://docs.python.org/3/library/stdtypes.html#str "\(in Python
v3.13\)")_#
action _:
Callable[[[frozenset](https://docs.python.org/3/library/stdtypes.html#frozenset
"\(in Python
v3.13\)")[[conda.models.match_spec.MatchSpec](../../models/match_spec/index.html#conda.models
.match_spec.MatchSpec
"conda.models.match_spec.MatchSpec")],
[frozenset](https://docs.python.org/3/library/stdtypes.html#frozenset "\(in
Python
v3.13\)")[[conda.models.match_spec.MatchSpec](../../models/match_spec/index.html#conda.models
.match_spec.MatchSpec
"conda.models.match_spec.MatchSpec")]],
[None](https://docs.python.org/3/library/constants.html#None "\(in Python
v3.13\)")]_#
```

class CondaPostSolve#



"conda.models.records.PackageRecord"), Ellipsis],
[tuple](https://docs.python.org/3/library/stdtypes.html#tuple "\(in Python
v3.13\)")[[conda.models.records.PackageRecord](//models/records/index.html#conda.models.rec
ords.PackageRecord
"conda.models.records.PackageRecord"), Ellipsis]],
[None](https://docs.python.org/3/library/constants.html#None "\(in Python
v3.13\)")]_#
_class _CondaSetting#
Return type to use when defining a conda setting plugin hook.
For details on how this is used, see
[`conda_settings()`](///plugins/settings.html#conda.plugins.hookspec.CondaSpecs.conda_settings
ngs
"conda.plugins.hookspec.CondaSpecs.conda_settings").
Parameters:
* **name** \ name of the setting (e.g., `config_param`)



```
_class _ProgressBarBase(_description :
[str](https://docs.python.org/3/library/stdtypes.html#str "\(in Python
v3.13\)")_, _** kwargs_)#
Bases: [`abc.ABC`](https://docs.python.org/3/library/abc.html#abc.ABC "\(in
Python v3.13\)")
Helper class that provides a standard way to create an ABC using inheritance.
_abstract _update_to(_fraction_) ->
[None](https://docs.python.org/3/library/constants.html#None "\(in Python
v3.13\)")#
_abstract _refresh() ->
[None](https://docs.python.org/3/library/constants.html#None "\(in Python
v3.13\)")#
```

[None](https://docs.python.org/3/library/constants.html#None "\(in Python

\_abstract \_close() ->



```
_abstract ___exit__(_exc_type_ , _exc_val_ , _exc_tb_)#
```

\_class \_ReporterRendererBase#

Bases: [`abc.ABC`](https://docs.python.org/3/library/abc.html#abc.ABC "\(in Python v3.13\)")

Base class for all reporter renderers.

render(\_data : Any\_, \_\*\* kwargs\_) ->
[str](https://docs.python.org/3/library/stdtypes.html#str "\(in Python v3.13\)")#

\_abstract \_detail\_view(\_data : [dict](https://docs.python.org/3/library/stdtypes.html#dict "\(in Python v3.13\)")[[str](https://docs.python.org/3/library/stdtypes.html#str "\(in Python v3.13\)"), [str](https://docs.python.org/3/library/stdtypes.html#str "\(in Python v3.13\)") | [int](https://docs.python.org/3/library/functions.html#int "\(in Python v3.13\)") | [bool](https://docs.python.org/3/library/functions.html#bool "\(in Python v3.13\)")]\_, \_\*\* kwargs\_) -> [str](https://docs.python.org/3/library/stdtypes.html#str "\(in Python v3.13\)")#

Render the output in a "tabular" format.

```
_abstract _envs_list(_data_ , _** kwargs_) ->
[str](https://docs.python.org/3/library/stdtypes.html#str "\(in Python v3.13\)")#
```

Render a list of environments

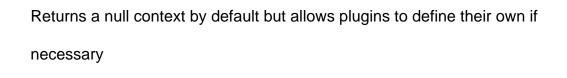
"\(in Python v3.13\)")#

```
_abstract _progress_bar(_description : 
[str](https://docs.python.org/3/library/stdtypes.html#str "\(in Python v3.13\)")_, _** kwargs_) -> ProgressBarBase#
```

Return a `ProgressBarBase~` object to use as a progress bar

\_classmethod \_progress\_bar\_context\_manager() ->

```
[contextlib.AbstractContextManager](https://docs.python.org/3/library/contextlib.html#contextlib.AbstractContextManager
```



\_abstract \_spinner(\_message\_ , \_failed\_message\_) -> SpinnerBase#

Return a `SpinnerBase~` object to use as a spinner (i.e. loading dialog)

\_abstract \_prompt(\_message :

[str](https://docs.python.org/3/library/stdtypes.html#str "\(in Python

v3.13\)") = 'Proceed'\_, \_choices =('yes', 'no')\_, \_default :

[str](https://docs.python.org/3/library/stdtypes.html#str "\(in Python

 $v3.13\)") = 'yes'_) ->$ 

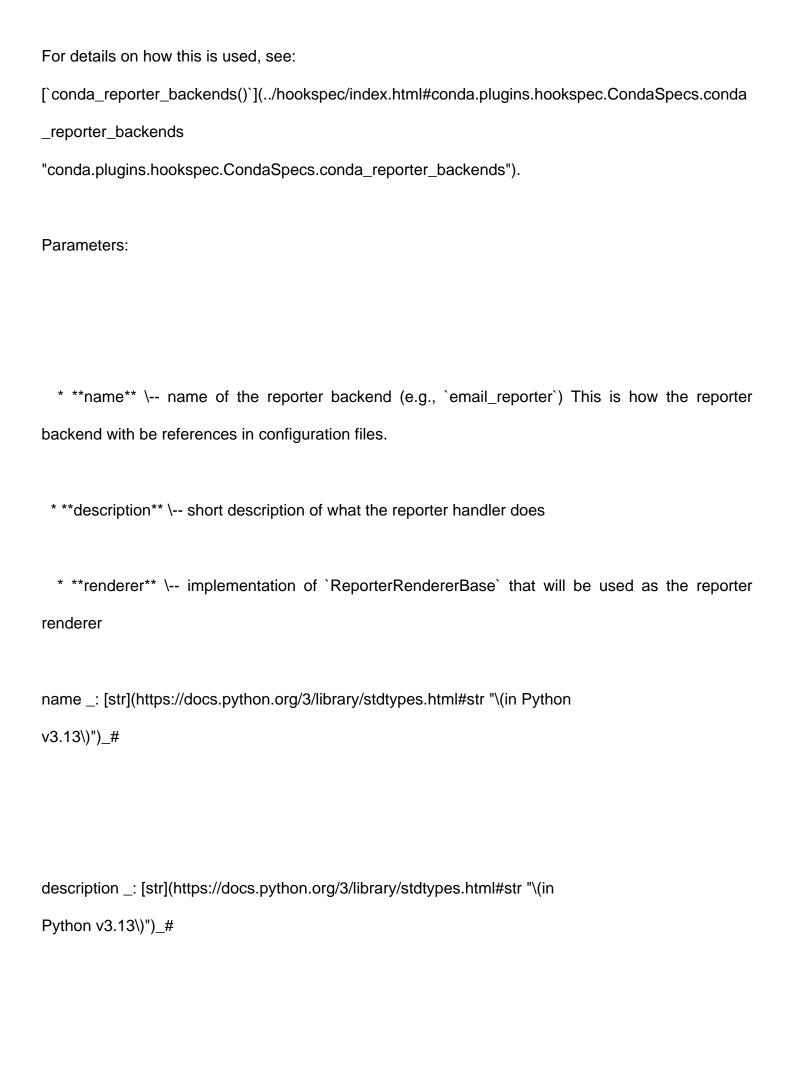
[str](https://docs.python.org/3/library/stdtypes.html#str "\(in Python

v3.13\)")#

Allows for defining an implementation of a "yes/no" confirmation function

\_class \_CondaReporterBackend#

Return type to use when defining a conda reporter backend plugin hook.





name \_: [str](https://docs.python.org/3/library/stdtypes.html#str "\(in Python v3.13\\)")\_#

value \_: [str](https://docs.python.org/3/library/stdtypes.html#str "\(in Python v3.13\\)")\_#

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```
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[ __Edit on GitHub](https://github.com/conda/conda/edit/main/docs/source/dev-
guide/api/conda/plugins/types/index.rst)
```

[Show Source](///_sources/dev-
guide/api/conda/plugins/types/index.rst.txt)
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Created using [Sphinx](https://www.sphinx-doc.org/) 7.4.7.
[ Analytics Dashboard](https://docs-conda-io.goatcounter.com "Analytics
Dashboard")
Built with the [PyData Sphinx Theme](https://pydata-sphinx-
theme.readthedocs.io/en/stable/index.html) 0.15.4.