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- * Reporter Backends

Reporter Backends#

Reporter backends is a plugin hook that allows you to customize the display of certain elements at the command line. Below is a list of all the elements that can currently be customized:

- * Progress bar (displayed during package downloads)

- * Spinner (displayed while conda is waiting for a long running task to finish)

- * Confirmation input (yes/no dialogs)

- * ``conda info`` layout

This can be configured using the ``console`` setting either as a command line option or by defining it in the ``.condarc`` file.

For more information on configuring and using reporter backends in conda itself see:

* [Settings: console](../../user-guide/configuration/settings.html#console)

Example plugin#

The following example defines a simple plugin which uses the

[`pprint.pformat()`](https://docs.python.org/3/library/pprint.html#pprint.pformat)

function for rendering parts of conda's output:

Hint

This is just a partial example. To see a fully functioning example of a

reporter backend, checkout the

[`conda.plugins.reporter_backends.console`](../api/conda/plugins/reporter_backends/console/index.html#module-

conda.plugins.reporter_backends.console

"conda.plugins.reporter_backends.console") module.

```
from pprint import pprint
```

```
from conda import plugins
```

```
from conda.plugins.types import (
```

```
    CondaReporterBackend,
```

```
    ReporterRendererBase,
```

```
    ProgressBarBase,
```

```
)
```

```

class PprintReporterRenderer(ReporterRendererBase):
    """
    Implementation of the ReporterRendererBase abstract base class
    """

    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,
```

```
    )
```

Below is a summary of everything we've defined:

```
### Defining `ReporterRendererBase`#
```

The first class we define, `PprintReporterRenderer`, is a subclass of

[`ReporterRendererBase`](../api/conda/plugins/types/index.html#conda.plugins.types.ReporterRendererBase

"conda.plugins.types.ReporterRendererBase"). The base class is an abstract

base class which requires us to define our own implementations of its abstract

methods. These abstract methods are used by conda when rendering output and

are where all the customization we want to do occurs.

Defining `ProgressBarBase`#

The second class we define is `PprintProgressBar`. For this example, it is

just an empty implementation of the

`[`ProgressBarBase`](../api/conda/plugins/types/index.html#conda.plugins.types.ProgressBarBase`

`"conda.plugins.types.ProgressBarBase")`. Defining this effectively hides the

progress bar when this reporter backend is configured. We do this in this

tutorial because a full implementation would take too long to explain. Please

check out

`[`TQDMProgressBar`](../api/conda/plugins/reporter_backends/console/index.html#conda.plugins.rep`

`orter_backends.console.TQDMProgressBar`

`"conda.plugins.reporter_backends.console.TQDMProgressBar")` for a more

realistic example using the `[tqdm](https://tqdm.github.io/)` library.

Registering the plugin hook#

Finally, we define the `conda_reporter_backends` function with the

`plugins.hookimpl` decorator to register our plugin which returns the

`PprintReporterRenderer` class wrapped in a

`[`CondaReporterBackend`](../api/conda/plugins/types/index.html#conda.plugins.types.CondaReport`

`erBackend`

`"conda.plugins.types.CondaReporterBackend")` object. By registering it with

`name` set to `pprint`, we will be able to reference this plugin as a new

backend for the `console` setting.

Using the reporter backend#

To use our newly registered reporter backend, it can either be specified in our `.condarc` configuration file:

```
console: pprint
```

Or, it can be specified at the command line using the `--console` option:

```
conda info --envs --console=pprint
```

Further reading#

For detailed information on how to create a conda plugin from scratch, please see the following repository which also contains a [cookiecutter](https://www.cookiecutter.io/) recipe you can use to easily bootstrap your project:

* [conda-plugins-template](https://github.com/conda/conda-plugin-template)

Below are relevant areas of the API docs for the reporter backends plugin

hook:

*

[`CondaReporterBackend`](../api/conda/plugins/types/index.html#conda.plugins.types.CondaReporterBackend "conda.plugins.types.CondaReporterBackend") metadata object that must be returned from the reporter backends hook definition.

*

[`conda_reporter_backends`](../api/conda/plugins/hookspec/index.html#conda.plugins.hookspec.CondaSpecs.conda_reporter_backends "conda.plugins.hookspec.CondaSpecs.conda_reporter_backends") hookspec definition for reporter backends which contains an example of its usage.

*

[`console`](../api/conda/plugins/reporter_backends/console/index.html#module-conda.plugins.reporter_backends.console "conda.plugins.reporter_backends.console") our default implementation for the `console` reporter backend.

*

[`json`](../api/conda/plugins/reporter_backends/json/index.html#module-conda.plugins.reporter_backends.json "conda.plugins.reporter_backends.json") our default implementation for the `json` reporter backend.

___On this page

- * Example plugin
- * Defining `ReporterRendererBase`
- * Defining `ProgressBarBase`
- * Registering the plugin hook

- * Using the reporter backend

- * Further reading

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

[__Show Source]([../../_sources/dev-guide/plugins/reporter_backends.rst.txt](https://github.com/conda/conda/blob/main/docs/source/dev-guide/plugins/reporter_backends.rst.txt))

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