wilderness

G.J.J. van den Burg

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## CONTENTS

1 Installation \hspace{1.5cm} 3

2 Usage \hspace{1.5cm} 5

3 Examples \hspace{1.5cm} 7

4 Notes \hspace{1.5cm} 9
   4.1 Wilderness \hspace{1.5cm} 9
   4.2 Changelog \hspace{1.5cm} 10
   4.3 Wilderness API Documentation \hspace{1.5cm} 11

5 Indices and tables \hspace{1.5cm} 27

Python Module Index \hspace{1.5cm} 29

Index \hspace{1.5cm} 31
Wilderness is a light wrapper around argparse for creating command line applications with multiple subcommands, in the style of Git. Wilderness also makes it easy to generate man pages for your application.

Wilderness is heavily inspired by Cleo and argparse-manpage, but aims to stick as closely as possible to argparse to avoid users having to learn a new API.
Wilderness is available on PyPI:

$ pip install wilderness
Building command line applications with Wilderness is straightforward, but it does expect a certain structure of the application. You can create applications with or without subcommands, as illustrated with the fakegit and fakedf examples, respectively.

Creating wilderness applications consist of the following steps:

1. Subclassing the wilderness.Application class to hold the main application.
2. Adding one or more wilderness.Command objects for each of the subcommands, optionally organized into wilderness.Groups.
3. Minor changes to setup.py to build the manpages.
Here are some examples that use Wilderness to build command line applications:

<table>
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</thead>
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</tr>
</tbody>
</table>

Add your example here by opening a pull request!
License: See the LICENSE file.

Author: Gertjan van den Burg

4.1 Wilderness

Wilderness is a light wrapper around argparse for creating command line applications with multiple subcommands, in the style of Git. Wilderness also makes it easy to generate man pages for your application.

Wilderness is heavily inspired by Cleo and argparse-manpage, but aims to stick as closely as possible to argparse to avoid users having to learn a new API.

4.1.1 Installation

Wilderness is available on PyPI:

```bash
$ pip install wilderness
```

4.1.2 Usage

Building command line applications with Wilderness is straightforward, but it does expect a certain structure of the application. You can create applications with or without subcommands, as illustrated with the fakegit and fakedf examples, respectively.

Creating wilderness applications consist of the following steps:

1. Subclassing the `wilderness.Application` class to hold the main application.
2. Adding one or more `wilderness.Command` objects for each of the subcommands, optionally organized into `wilderness.Groups`.
3. Minor changes to `setup.py` to build the manpages.
### 4.1.3 Examples

Here are some examples that use Wilderness to build command line applications:

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Add your example here by opening a pull request!

### 4.1.4 Notes

License: See the LICENSE file.

Author: Gertjan van den Burg

### 4.2 Changelog

#### 4.2.1 Version 0.1.9

- Add MANIFEST.in file to package for more complete packaging (thanks to @martin-kokos)

#### 4.2.2 Version 0.1.8

- Fix for running unit tests without man-db (GH-5)

#### 4.2.3 Version 0.1.7

- Add option to automatically generate list of commands in Application manpage
- Fix support for tab indentation in man pages
- Add helpful errors when description is not of type str
- Some minor fixes

#### 4.2.4 Version 0.1.6

- Bugfix for application testing
- Minor fixes for documentation of single-command applications
- Improve test discovery (GH-2)
4.2.5 Version 0.1.5

- Bugfix for synopsis of commands with mutually exclusive argument groups

4.2.6 Version 0.1.4

- Add support for mutually exclusive argument groups
- Typos and fixes

4.2.7 Version 0.1.3

- Add Tester class to test applications and commands
- Subclass ArgumentParser to handle exit on error
- Removed application.get_argument method
- Several smaller fixes and design improvements

4.2.8 Version 0.1.2

- Redesign manpage building api
- Use application help instead of manpage with <app> help

4.2.9 Version 0.1.1

- Add py.typed file for PEP 561.
- Update help action for application
- Minor fixes

4.2.10 Version 0.1.0

- Initial release

4.3 Wilderness API Documentation

4.3.1 wilderness package

Submodules

wilderness.application module

Application class
This module contains the Application class.
Author: G.J.J. van den Burg License: See the LICENSE file. Copyright: 2021, G.J.J. van den Burg
This file is part of Wilderness.

Bases: DocumentableMixin

Base class for applications

This is the main Application object that Wilderness applications are expected to inherit from. All text that is supplied to the man pages, such as the description, can use basic formatting constructs documented in the `ManPage.groffify()` method.

Parameters

- `name (str)` – The name of the application.
- `version (str)` – The version of the application, to be used in creating the man pages.
- `author (Optional[str])` – The author(s) of the application. This is used in the man pages, but is not actually visible in the output (it is recorded in the metadata header of the man pages).
- `title (Optional[str])` – The title of the application is used as a short description. It shows up in the man pages as the text after the application name in the first section.
- `description (Optional[str])` – Long description of the application. This is used in the man pages in the DESCRIPTION section after the synopsis.
- `default_command (Optional[str])` – The default command to run when none is supplied on the command line. By default this is omitted and the help text is shown instead, but some applications may want to run a particular command as default instead.
- `add_help (bool)` – Whether to add help commands or not. This adds support for the traditional help flags -h or --help for the short help text on the command line, as well as the help command that opens the man pages for the subcommands of the application. Note that the short help text on the command line typically provides a list of available commands.

See the FakeDF example for an application where this is not enabled.

- `extra_sections (Optional[Dict[str, str]])` – Additional sections of documentation for the man page. This is expected to be provided as a dictionary where the keys are the section headers and the values are the section text. Basic formatting constructs such as lists and enumerations are understood by the text processor (see `ManPage.groffify()` for further details).
- `prolog (Optional[str])` – Text to be shown in the short command line help text, before the (grouped) list of available commands. Newline characters are preserved.
- `epilog (Optional[str])` – Text to be shown in the short command line help text, after the list of available commands. Newline characters are preserved.
- `options_prolog (Optional[str])` – Text to be shown in the man page before the list of options. See the FakeDF application for an example.
- `options_epilog (Optional[str])` – Text to be shown in the man page after the list of options. See the FakeDF application for an example.
- `add_commands_section (bool)` – Whether to automatically generate a section in the application man page that lists the available commands.
**add(command: Command)**

Add a command to the application

Note that the register method of the command is called when it is added to the application.

**Parameters**

- **command (wilderness.command.Command)** – The command to add to the application.

**add_argument(*args, **kwargs) → Action**

Add an argument to the application

This wraps the argparse.ArgumentParser.add_argument method, with the minor difference that it supports a “description” keyword argument, which will be used to provide a long help message for the argument in the man page.

**add_group(title: str) → Group**

Create a group of commands

**Parameters**

- **title (str)** – The title for the group.

**Returns**

The created command group.

**Return type**

wilderness.group.Group

**property author: str**

The author(s) of the application

**property commands: List[Command]**

List the commands registered to the application

**Returns**

- **commands** – The list of commands registered to the application.

**Return type**

List[wilderness.command.Command]

**create_manpage() → ManPage**

Create the Manpage for the application

**Returns**

- **man_page** – The generated ManPage object.

**Return type**

wilderness.manpages.ManPage

**format_help() → str**

Format the command line help for the application

This method creates the help text for the command line, which is typically printed when the -h / –help / help command line arguments are used. The print_help() method calls this method to format the help text.

**Returns**

- **help_text** – The help text as a single string.

**Return type**

str
get_command(command_name: str) → Command
Get a command by name

Parameters
command_name (str) – The name of the command to find

Returns
command – The instance of the Command to be returned.

Return type
wilderness.command.Command

Raises
KeyError – If no command with the provided name can be found, a KeyError is raised.

get_commands_text() → str

property groups:  List[Group]
List the groups registered to the application
If no groups have been added to the application but commands have been added, this property will contain a single group, the root group.

Returns
groups – The list of groups registered to the application

Return type
List[wilderness.group.Group]

handle() → int
Main method to override for single-command applications.
When creating a single-command application (such as the FakeDF example), this method must be overridden with the actual functionality. For multi-command applications, this method is not used.

Returns
return_code – The return code of the application, to be used as the return code on the command line.

Return type
int

property name:  str
The name of the application

print_help(file: Optional[TextIO] = None)
Print the command line help text for the application

Parameters
file (Optional[TextIO]) – The file to which to write the help text. If omitted, the help text will be written to sys.stdout.

register()
Register arguments to the application
Override this method to add command line arguments to the application (using self.add_argument, etc). For single-command applications, this should be used to add all command line arguments. For multi-command applications, this method can be used to add arguments that apply to all commands, or arguments such as --version.
This method is called upon initialization of the Application object.
run\( (\text{args}: \text{Optional}[\text{List}[\text{str}]] = \text{None}, \text{namespace}: \text{Optional}[\text{Namespace}] = \text{None}, \text{exit\_on\_error}: \text{bool} = \text{True}) \rightarrow \text{int} \)

Main method to run the application

**Parameters**

- **args** (Optional[List[str]]) – List of arguments to the application. This is typically only used for testing, as by default the arguments will be read from the command line.
- **namespace** (Optional[argparse.Namespace]) – Namespace object to save the arguments to. By default a new argparse.Namespace object is created.
- **exit\_on\_error** (bool) – Whether or not to exit when argparse encounters an error.

**Returns**

- **return\_code** – The return code of the application, to be used as the return code at the command line.

**Return type**

int

run\_command\( (\text{command}: \text{Command}) \rightarrow \text{int} \)

Run a particular command directly

**Parameters**

- **command** (wilderness.command.Command) – The command to execute

**Returns**

- **return\_code** – The return code of the handle() method of the command.

**Return type**

int

set\_epilog\( (\text{epilog}: \text{str}) \rightarrow \text{None} \)

Set the epilog of the command line help text

**Parameters**

- **epilog** (str) – Text to include at the end of the command line help text.

set\_prolog\( (\text{prolog}: \text{str}) \rightarrow \text{None} \)

Set the prolog of the command line help text

**Parameters**

- **prolog** (str) – Text to include before the list of commands in the command line help text. The prolog is printed after the synopsis of the application.

**property** version: str

The version of the package or application

wilderness.argparse\_wrappers module

ArgumentParser override

Author: G.J.J. van den Burg License: See the LICENSE file. Copyright: 2021, G.J.J. van den Burg

This file is part of Wilderness.

class wilderness.argparse\_wrappers.ArgumentGroup\( (\text{group}: \_\text{ArgumentGroup}) \)

Bases: object
add_argument(*args, **kwargs)

property command: Optional[wilderness.command.Command]

class wilderness.argparse_wrappers.ArgumentParser(*args, exit_on_error=True, **kwargs)
Bases: ArgumentParser

exit(status: Optional[int] = 0, message: Optional[str] = None)

class wilderness.argparse_wrappers.MutuallyExclusiveGroup(meg: _MutuallyExclusiveGroup)
Bases: object

add_argument(*args, **kwargs)

property command: Optional[wilderness.command.Command]

wilderness.command module

Command definition

This module contains the definitions for the Command class.

Author: G.J.J. van den Burg License: See the LICENSE file. Copyright: 2021, G.J.J. van den Burg
This file is part of Wilderness.

Bases: DocumentableMixin

add_argument(*args, **kwargs)

add_argument_group(*args, **kwargs) → ArgumentGroup

add_mutually_exclusive_group(*args, **kwargs) → MutuallyExclusiveGroup

property application: Optional[wilderness.application.Application]

create_manpage() → ManPage

abstract handle() → int

property name: str

register()

Register a virtual subclass of an ABC.

Returns the subclass, to allow usage as a class decorator.

property title: Optional[str]
**wilderness.documentable module**

DocumentableMixin definitions

A documentable is either an application or command, for which we can generate a manpage.

Author: G.J.J. van den Burg License: See the LICENSE file. Copyright: 2021, G.J.J. van den Burg

This file is part of Wilderness.

```python
class wilderness.documentable.DocumentableMixin(
    description: Optional[str] = None,
    extra_sections: Optional[Dict[str, str]] = None,
    options_prolog: Optional[str] = None,
    options_epilog: Optional[str] = None
)
```

Bases: object

- **property args:** Namespace
  The parsed command line arguments
- **property argument_help:** Dict[str, Optional[str]]
- **abstract create_manpage() → ManPage**
- **property description:** Optional[str]
- **get_options_text() → str**
- **get_synopsis(width: int = 80) → str**
- **property parser:** ArgumentParser

**wilderness.formatter module**

HelpFormatter

We have a slightly adjusted HelpFormatter that we use for the manpages.

Author: G.J.J. van den Burg License: See the LICENSE file. Copyright: 2021, G.J.J. van den Burg

This file is part of Wilderness.

```python
class wilderness.formatter.HelpFormatter(
    prog,
    indent_increment=2,
    max_help_position=24,
    width=None
)
```

Bases: HelpFormatter

**wilderness.group module**

Group definitions

This module contains the definitions for the Group class, which is used to collect distinct Command objects for the application.

Author: G.J.J. van den Burg License: See the LICENSE file. Copyright: 2021, G.J.J. van den Burg

This file is part of Wilderness.

```python
class wilderness.group.Group(
    title: Optional[str] = None,
    is_root: bool = False
)
```

Bases: object
```python
wilderness

    add(command: wilderness.command.Command) → None

property application: Optional[wilderness.application.Application]

property commands: List[wilderness.command.Command]

commands_as_actions() → List[Action]

property is_root: bool
    Return whether the groups is its Application’s root group

set_app(app: wilderness.application.Application) → None

property title: Optional[str]
```

**wilderness.help module**

Help command definitions

This module contains the definitions for our HelpCommand and our HelpAction. The HelpCommand takes care of opening the manpage when the “help” subcommand is called, and the HelpAction is slightly modified to use our help text formatter (see the Application class).

Author: G.J.J. van den Burg License: See the LICENSE file. Copyright: 2021, G.J.J. van den Burg

This file is part of Wilderness.

class wilderness.help.HelpCommand
    Bases: Command

    handle() → int

    register()
        Register a virtual subclass of an ABC.
        Returns the subclass, to allow usage as a class decorator.

wilderness.help.have_man_command() → bool

wilderness.help.help_action_factory(app: wilderness.application.Application)

**wilderness.manpages module**

Code to generate manpages

Author: G.J.J. van den Burg License: See the LICENSE file. Copyright: 2021, G.J.J. van den Burg

This file is part of Wilderness.

    Bases: object

    add_section(label: str, text: str) → None

    add_section_synopsis(synopsis: str) → None
```
wilderness

export(output_dir: str) → str

groffify(text: str) → str
    Format a text line for use in manpages
    This function supports several basic formatting constructs. First, newlines in the text are preserved. Next, lists can be created by starting lines with *, as long as each list entry starts on its own line (that is, separated by n). Indented text can be created by prefixing a line with one or more t characters. Numbered lists are also recognized, as long as each item starts with 1. (that is, a digit followed by a period, followed by a space).

    Parameters
        text (str) – The text to convert

    Returns
        formatted_text – The formatted text ready for use in manpage documents.

    Return type
        str

groffify_line(line: str) → str

header() → str

metadata() → List[str]

property name: str

preamble() → List[str]

section_name() → str

wilderness.manpages.build_manpages(app: wilderness.application.Application, output_directory: str = 'man') → None
    Write manpages to the output directory

    Parameters
        • app (wilderness.Application) – The application for which to generate manpages.
        • output_directory (str) – The output directory to which to write the manpages.

wilderness.tester module

Tester class
This module contains the CommandTester class.

Author: G.J.J. van den Burg License: See the LICENSE file. Copyright: 2021, G.J.J. van den Burg
This file is part of Wilderness.

class wilderness.tester.Tester(app: Application)
    Bases: object

    property application: Application

    clear()

    get_return_code() → Optional[int]
wilderness

get_stderr() → Optional[str]
get_stdout() → Optional[str]

test_application(args: Optional[List[str]] = None) → None

test_command(cmd_name: str, args: List[str]) → None

Module contents


Bases: DocumentableMixin

Base class for applications

This is the main Application object that Wilderness applications are expected to inherit from. All text that is supplied to the man pages, such as the description, can use basic formatting constructs documented in the ManPage.groffify() method.

Parameters

• name (str) – The name of the application.
• version (str) – The version of the application, to be used in creating the man pages.
• author (Optional[str]) – The author(s) of the application. This is used in the man pages, but is not actually visible in the output (it is recorded in the metadata header of the man pages).
• title (Optional[str]) – The title of the application is used as a short description. It shows up in the man pages as the text after the application name in the first section.
• description (Optional[str]) – Long description of the application. This is used in the man pages in the DESCRIPTION section after the synopsis.
• default_command (Optional[str]) – The default command to run when none is supplied on the command line. By default this is omitted and the help text is shown instead, but some applications may want to run a particular command as default instead.
• add_help (bool) – Whether to add help commands or not. This adds support for the traditional help flags -h or --help for the short help text on the command line, as well as the help command that opens the man pages for the subcommands of the application. Note that the short help text on the command line typically provides a list of available commands.

See the FakeDF example for an application where this is not enabled.
• extra_sections (Optional[Dict[str, str]]) – Additional sections of documentation for the man page. This is expected to be provided as a dictionary where the keys are the section headers and the values are the section text. Basic formatting constructs such as lists and enumerations are understood by the text processor (see ManPage.groffify() for further details).
• prolog (Optional[str]) – Text to be shown in the short command line help text, before the (grouped) list of available commands. Newline characters are preserved.
• **epilog** *(Optional[str]*) – Text to be shown in the short command line help text, after the list of available commands. Newline characters are preserved.

• **options_prolog** *(Optional[str]*) – Text to be shown in the man page before the list of options. See the FakeDF application for an example.

• **options_epilog** *(Optional[str]*) – Text to be shown in the man page after the list of options. See the FakeDF application for an example.

• **add_commands_section** *(bool)* – Whether to automatically generate a section in the application man page that lists the available commands.

```python
add(command: Command)
```

Add a command to the application

Note that the register method of the command is called when it is added to the application.

**Parameters**

- **command** *(wilderness.command.Command)* – The command to add to the application.

```python
add_argument(*args, **kwargs) → Action
```

Add an argument to the application

This wraps the argparse.ArgumentParser.add_argument method, with the minor difference that it supports a “description” keyword argument, which will be used to provide a long help message for the argument in the man page.

```python
add_group(title: str) → Group
```

Create a group of commands

**Parameters**

- **title** *(str)* – The title for the group.

**Returns**

The created command group.

**Return type**

`wilderness.group.Group`

**property author:** *str*

The author(s) of the application

**property commands:** *List[Command]*

List the commands registered to the application

**Returns**

- **commands** – The list of commands registered to the application.

**Return type**

`List[wilderness.command.Command]`

```python
create_manpage() → ManPage
```

Create the Manpage for the application

**Returns**

- **man_page** – The generated ManPage object.

**Return type**

`wilderness.manpages.ManPage`
**format_help() → str**

Format the command line help for the application

This method creates the help text for the command line, which is typically printed when the `-h / -help / help` command line arguments are used. The `print_help()` method calls this method to format the help text.

Returns

- **help_text** – The help text as a single string.

Return type

- **str**

**get_command(command_name: str) → Command**

Get a command by name

Parameters

- **command_name** (`str`) – The name of the command to find

Returns

- **command** – The instance of the Command to be returned.

Return type

- `wilderness.command.Command`

Raises

- **KeyError** – If no command with the provided name can be found, a KeyError is raised.

**get_commands_text() → str**

property **groups**: `List[Group]`

List the groups registered to the application

If no groups have been added to the application but commands have been added, this property will contain a single group, the root group.

Returns

- **groups** – The list of groups registered to the application

Return type

- `List[wilderness.group.Group]`

**handle() → int**

Main method to override for single-command applications.

When creating a single-command application (such as the `FakeDF` example), this method must be overridden with the actual functionality. For multi-command applications, this method is not used.

Returns

- **return_code** – The return code of the application, to be used as the return code on the command line.

Return type

- **int**

property **name**: `str`

The name of the application

**print_help(file: Optional[TextIO] = None)**

Print the command line help text for the application
Parameters

**file** *(Optional[TextIO]*) – The file to which to write the help text. If omitted, the help text will be written to sys.stdout.

**register()**

Register arguments to the application

Override this method to add command line arguments to the application (using self.add_argument, etc). For single-command applications, this should be used to add all command line arguments. For multi-command applications, this method can be used to add arguments that apply to all commands, or arguments such as --version.

This method is called upon initialization of the Application object.

**run(args: Optional[List[str]] = None, namespace: Optional[argparse.Namespace] = None, exit_on_error: bool = True) → int**

Main method to run the application

**Parameters**

- **args** *(Optional[List[str]])* – List of arguments to the application. This is typically only used for testing, as by default the arguments will be read from the command line.

- **namespace** *(Optional[argparse.Namespace]*) – Namespace object to save the arguments to. By default a new argparse.Namespace object is created.

- **exit_on_error** *(bool)* – Whether or not to exit when argparse encounters an error.

**Returns**

**return_code** – The return code of the application, to be used as the return code at the command line.

**Return type**

**int**

**run_command(command: Command) → int**

Run a particular command directly

**Parameters**

- **command** *(wilderness.command.Command)* – The command to execute

**Returns**

**return_code** – The return code of the handle() method of the command.

**Return type**

**int**

**set_epilog(epilog: str) → None**

Set the epilog of the command line help text

**Parameters**

- **epilog** *(str)* – Text to include at the end of the command line help text.

**set_prolog(prolog: str) → None**

Set the prolog of the command line help text

**Parameters**

- **prolog** *(str)* – Text to include before the list of commands in the command line help text. The prolog is printed after the synopsis of the application.
property version:  str
    The version of the package or application

    Bases: DocumentableMixin
    add_argument(*args, **kwargs)
    add_argument_group(*args, **kwargs) → ArgumentGroup
    add_mutually_exclusive_group(*args, **kwargs) → MutuallyExclusiveGroup
    property application:  Optional[wilderness.application.Application]
    create_manpage() → ManPage
    abstract handle() → int
    property name:  str
    register()
        Register a virtual subclass of an ABC.
        Returns the subclass, to allow usage as a class decorator.
    property title:  Optional[str]

class wilderness.Group(title: Optional[str] = None, is_root: bool = False)
    Bases: object
    add(command: wilderness.command.Command) → None
    property application:  Optional[wilderness.application.Application]
    property commands:  List[wilderness.command.Command]
    commands_as_actions() → List[Action]
    property is_root:  bool
        Return whether the groups is its Application’s root group
    set_app(app: wilderness.application.Application) → None
    property title:  Optional[str]

class wilderness.Tester(app: Application)
    Bases: object
    property application:  Application
    clear()
    get_return_code() → Optional[int]
    get_stderr() → Optional[str]
    get_stdout() → Optional[str]
test_application(args: Optional[List[str]] = None) → None

test_command(cmd_name: str, args: List[str]) → None

wilderness.build_manpages(app: wilderness.application.Application, output_directory: str = 'man') → None

Write manpages to the output directory

Parameters

- **app** (wilderness.Application) – The application for which to generate manpages.
- **output_directory** (str) – The output directory to which to write the manpages.
wilderness
INDICES AND TABLES

• genindex
• modindex
• search
W

wilderness, 20
wilderness.application, 11
wilderness.argparse_wrappers, 15
wilderness.command, 16
wilderness.documentable, 17
wilderness.formatter, 17
wilderness.group, 17
wilderness.help, 18
wilderness.manpages, 18
wilderness.tester, 19
A

add() (wilderness.Application method), 21
add() (wilderness.application.Application method), 12
add() (wilderness.Group method), 24
add() (wilderness.group.Group method), 17
add_argument() (wilderness.Application method), 21
add_argument() (wilderness.application.Application method), 13
add_argument() (wilderness.command.Command method), 24
add_argument() (wilderness.argparse_wrappers.ArgumentGroup method), 15
add_argument() (wilderness.argparse_wrappers.MutuallyExclusiveGroup method), 16
add_argument() (wilderness.Command method), 24
add_argument() (wilderness.command.Command method), 16
add_argument_group() (wilderness.Command method), 24
add_argument_group() (wilderness.command.Command method), 16
add_group() (wilderness.application.Application method), 21
add_group() (wilderness.command.Command method), 13
add_mutually_exclusive_group() (wilderness.Command method), 24
add_mutually_exclusive_group() (wilderness.command.Command method), 16
add_section() (wilderness.manpages.ManPage method), 18
add_section_synopsis() (wilderness.manpages.ManPage method), 18
Application (class in wilderness), 20
Application (class in wilderness.application), 11
application (wilderness.command.Command property), 24
application (wilderness.command.Command property), 16
application (wilderness.Group property), 24
application (wilderness.group.Group property), 18
application (wilderness.Tester property), 24
application (wilderness.tester.Tester property), 19
args (wilderness.documentable.DocumentableMixin property), 17
argument_help (wilderness.documentable.DocumentableMixin property), 17
ArgumentGroup (class in wilderness.argparse_wrappers), 15
ArgumentParser (class in wilderness.argparse_wrappers), 16
author (wilderness.Application property), 21
author (wilderness.application.Application property), 13
B

build_manpages() (in module wilderness), 25
build_manpages() (in module wilderness.manpages), 19
C

clear() (wilderness.Tester method), 24
clear() (wilderness.tester.Tester method), 19
Command (class in wilderness), 24
Command (class in wilderness.command), 16
command (wilderness.argparse_wrappers.ArgumentGroup property), 16
command (wilderness.argparse_wrappers.MutuallyExclusiveGroup property), 16
commands (wilderness.Application property), 21
commands (wilderness.application.Application property), 13
commands (wilderness.Group property), 24
commands (wilderness.group.Group property), 18
commands_as_actions() (wilderness.Group method), 24
commands_as_actions() (wilderness.command.Command method), 18
create_manpage() (wilderness.Application method), 21
create_manpage() (wilderness.application.Application method), 13
create_manpage() (wilderness.command.Command method), 24
create_manpage() (wilderness.command.Command method), 16
<table>
<thead>
<tr>
<th>Method</th>
<th>Class/Module</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>create_manpage()</code></td>
<td><code>wilder ness.documentable.DocumentableMixin method</code>, 17</td>
</tr>
<tr>
<td><code>description()</code></td>
<td><code>wilder ness.documentable.DocumentableMixin property</code>, 17</td>
</tr>
<tr>
<td><code>DocumentableMixin</code></td>
<td><code>class in wilder ness.documentable</code>, 17</td>
</tr>
<tr>
<td><code>exit()</code></td>
<td><code>wilder ness.argparse_wrappers.ArgumentParser method</code>, 16</td>
</tr>
<tr>
<td><code>export()</code></td>
<td><code>wilder ness.manpages.ManPage method</code>, 18</td>
</tr>
<tr>
<td><code>format_help()</code></td>
<td><code>wilder ness.Application method</code>, 21</td>
</tr>
<tr>
<td><code>format_help()</code></td>
<td><code>wilder ness.application.Application method</code>, 14</td>
</tr>
<tr>
<td><code>get_command()</code></td>
<td><code>wilder ness.Application method</code>, 22</td>
</tr>
<tr>
<td><code>get_command()</code></td>
<td><code>wilder ness.application.Application method</code>, 13</td>
</tr>
<tr>
<td><code>get_commands_text()</code></td>
<td><code>wilder ness.Application method</code>, 22</td>
</tr>
<tr>
<td><code>get_commands_text()</code></td>
<td><code>wilder ness.application.Application method</code>, 14</td>
</tr>
<tr>
<td><code>get_options_text()</code></td>
<td><code>wilder ness.documentable.DocumentableMixin method</code>, 17</td>
</tr>
<tr>
<td><code>get_return_code()</code></td>
<td><code>wilder ness.Tester method</code>, 24</td>
</tr>
<tr>
<td><code>get_return_code()</code></td>
<td><code>wilder ness.application.Application method</code>, 19</td>
</tr>
<tr>
<td><code>get_stderr()</code></td>
<td><code>wilder ness.Tester method</code>, 24</td>
</tr>
<tr>
<td><code>get_stdout()</code></td>
<td><code>wilder ness.Tester method</code>, 20</td>
</tr>
<tr>
<td><code>get_synopsis()</code></td>
<td><code>wilder ness.documentable.DocumentableMixin method</code>, 17</td>
</tr>
<tr>
<td><code>groffify()</code></td>
<td><code>wilder ness.manpages.ManPage method</code>, 19</td>
</tr>
<tr>
<td><code>groffify_line()</code></td>
<td><code>wilder ness.manpages.ManPage method</code>, 19</td>
</tr>
<tr>
<td><code>Group</code></td>
<td><code>class in wilder ness</code>, 24</td>
</tr>
<tr>
<td><code>groups</code></td>
<td><code>class in wilder ness.group</code>, 17</td>
</tr>
<tr>
<td><code>groups</code></td>
<td><code>wilder ness.Application property</code>, 22</td>
</tr>
<tr>
<td><code>groups</code></td>
<td><code>wilder ness.application.Application property</code>, 14</td>
</tr>
<tr>
<td><code>handle()</code></td>
<td><code>wilder ness.Application method</code>, 22</td>
</tr>
<tr>
<td><code>handle()</code></td>
<td><code>wilder ness.application.Application method</code>, 14</td>
</tr>
<tr>
<td><code>handle()</code></td>
<td><code>wilder ness.Command method</code>, 24</td>
</tr>
<tr>
<td><code>handle()</code></td>
<td><code>wilder ness.command.Command method</code>, 16</td>
</tr>
<tr>
<td><code>handle()</code></td>
<td><code>wilder ness.help.HelpCommand method</code>, 18</td>
</tr>
<tr>
<td><code>have_man_command()</code></td>
<td><code>(in module wilderness.help)</code>, 18</td>
</tr>
<tr>
<td><code>header()</code></td>
<td><code>wilder ness.manpages.ManPage method</code>, 19</td>
</tr>
<tr>
<td><code>help_action_factory()</code></td>
<td><code>(in module wilderness.help)</code>, 18</td>
</tr>
<tr>
<td><code>HelpCommand</code></td>
<td><code>(class in wilderness.help)</code>, 18</td>
</tr>
<tr>
<td><code>HelpFormatter</code></td>
<td><code>(class in wilderness.formatter)</code>, 17</td>
</tr>
<tr>
<td><code>is_root</code></td>
<td><code>wilder ness.group.Group property</code>, 18</td>
</tr>
<tr>
<td><code>is_root</code></td>
<td><code>wilder ness.group.Group property</code>, 18</td>
</tr>
<tr>
<td><code>ManPage</code></td>
<td><code>(class in wilderness.manpages)</code>, 18</td>
</tr>
<tr>
<td><code>metadata()</code></td>
<td><code>wilder ness.manpages.ManPage method</code>, 19</td>
</tr>
<tr>
<td><code>module</code></td>
<td><code>wilder ness</code>, 20</td>
</tr>
<tr>
<td><code>module</code></td>
<td><code>wilder ness.application</code>, 11</td>
</tr>
<tr>
<td><code>module</code></td>
<td><code>wilder ness.argparse_wrappers</code>, 15</td>
</tr>
<tr>
<td><code>module</code></td>
<td><code>wilder ness.command</code>, 16</td>
</tr>
<tr>
<td><code>module</code></td>
<td><code>wilder ness.documentable</code>, 17</td>
</tr>
<tr>
<td><code>module</code></td>
<td><code>wilder ness.formatter</code>, 17</td>
</tr>
<tr>
<td><code>module</code></td>
<td><code>wilder ness.group</code>, 17</td>
</tr>
<tr>
<td><code>module</code></td>
<td><code>wilder ness.help</code>, 18</td>
</tr>
<tr>
<td><code>module</code></td>
<td><code>wilder ness.manpages</code>, 18</td>
</tr>
<tr>
<td><code>module</code></td>
<td><code>wilder ness.tester</code>, 19</td>
</tr>
<tr>
<td><code>MutuallyExclusiveGroup</code></td>
<td><code>(class in wilder ness.argparse_wrappers)</code>, 16</td>
</tr>
<tr>
<td><code>name</code></td>
<td><code>wilder ness.Application property</code>, 22</td>
</tr>
<tr>
<td><code>name</code></td>
<td><code>wilder ness.application.Application property</code>, 14</td>
</tr>
<tr>
<td><code>name</code></td>
<td><code>wilder ness.command.Command property</code>, 24</td>
</tr>
<tr>
<td><code>name</code></td>
<td><code>wilder ness.manpages.ManPage property</code>, 19</td>
</tr>
<tr>
<td><code>parser</code></td>
<td><code>wilder ness.documentable.DocumentableMixin property</code>, 17</td>
</tr>
<tr>
<td><code>preamble()</code></td>
<td><code>wilder ness.manpages.ManPage method</code>, 19</td>
</tr>
<tr>
<td><code>print_help()</code></td>
<td><code>wilder ness.Application method</code>, 22</td>
</tr>
<tr>
<td><code>print_help()</code></td>
<td><code>wilder ness.application.Application method</code>, 14</td>
</tr>
<tr>
<td><code>register()</code></td>
<td><code>wilder ness.Application method</code>, 23</td>
</tr>
</tbody>
</table>
register() (wilderness.application.Application method), 14
register() (wilderness.Command method), 24
register() (wilderness.command.Command method), 16
register() (wilderness.help.HelpCommand method), 18
run() (wilderness.Application method), 23
run() (wilderness.application.Application method), 14
run_command() (wilderness.Application method), 23
run_command() (wilderness.application.Application method), 15

S
section_name() (wilderness.manpages.ManPage method), 19
set_app() (wilderness.Group method), 24
set_app() (wilderness.group.Group method), 18
set_epilog() (wilderness.Application method), 23
set_epilog() (wilderness.application.Application method), 15
set_prolog() (wilderness.Application method), 23
set_prolog() (wilderness.application.Application method), 15

T
test_application() (wilderness.Tester method), 24
test_application() (wilderness.tester.Tester method), 20
test_command() (wilderness.Tester method), 25
test_command() (wilderness.tester.Tester method), 20
Tester (class in wilderness), 24
Tester (class in wilderness.tester), 19
title (wilderness.Command property), 24
title (wilderness.command.Command property), 16
title (wilderness.Group property), 24
title (wilderness.group.Group property), 18

V
version (wilderness.Application property), 23
version (wilderness.application.Application property), 15

W
wilderness module, 20
wilderness.application module, 11
wilderness.argparse_wrappers module, 15
wilderness.command module, 16
wilderness.documentable module, 17