
Git Interface

Release 0.9.3

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Use the git cli from Python.

Attention: This project currently is not heavily tested and not fully feature complete

**CHAPTER
ONE**

REQUIREMENTS

Git (version 2.30)

CONTENTS

2.1 Quick Start

Get Branches:

```
import asyncio
from git_interface.branch import get_branches

head, other_branches = asyncio.run(get_branches("my_git_repo.git"))

print("HEAD = ", head)
print("OTHER", other_branches)
```

2.2 Reference

2.2.1 git_interface.smart_http

git_interface.smart_http.quart

Smart HTTP Git helpers for quart

`async git_interface.smart_http.quart.get_info_refs_response(repo_path, pack_type)`

Make the response for handling advertisements.

A matching route should be: '/<repo_name>.git/info/refs', accessing the 'service' argument for pack_type.

param repo_path
Path to the repo

param pack_type
The pack-type

return
The created response

Return type
quart.Response

async git_interface.smart_http.quart.post_pack_response(repo_path, pack_type)

Make the response for handling exchange pack responses, uses ‘BODY_TIMEOUT’ for a timeout of a request.

A matching route should be: ‘/<repo_name>.git/<pack_type>’.

param repo_path

Path to the repo

param pack_type

The pack-type

return

The created response

Parameters

- **repo_path** (*Path*) –
- **pack_type** (*str*) –

Return type

quart.Response

git_interface.smart_http.ssh

2.2.2 git_interface.archive

Methods used for ‘archive’ command

async git_interface.archive.get_archive(git_repo, archive_type, tree_ish='HEAD')

get a archive of a git repo

param git_repo

Where the repo is

param archive_type

What archive type will be created

param tree_ish

What commit/branch to save, defaults to “HEAD”

raises GitException

Error to do with git

return

The content of the archive ready to write to a file

Parameters

- **git_repo** (*Union[Path, str]*) –
- **archive_type** (*ArchiveTypes*) –
- **tree_ish** (*str*) –

Return type

bytes

```
async git_interface.archive.get_archive_buffered(git_repo, archive_type, tree_ish='HEAD')
```

get a archive of a git repo, but using a buffered read

param git_repo

Where the repo is

param archive_type

What archive type will be created

param tree_ish

What commit/branch to save, defaults to "HEAD"

raises GitException

Error to do with git

yield

Each read content section

Parameters

- **git_repo** (*Union[Path, str]*) –
- **archive_type** (*ArchiveTypes*) –
- **tree_ish** (*str*) –

Return type

AsyncGenerator[bytes, None]

2.2.3 git_interface.branch

Methods for using the 'branch' command

```
async git_interface.branch.copy_branch(git_repo, branch_name, new_branch)
```

Copy an existing branch to a new branch in repo (uses -force)

param git_repo

Path to the repo

param branch_name

Branch name

param new_branch

The new branch name

raises NoBranchesException

Branch does not exist

raises GitException

Error to do with git

Parameters

- **git_repo** (*Union[Path, str]*) –
- **branch_name** (*str*) –
- **new_branch** (*str*) –

async git_interface.branch.count_branches(git_repo)

Count how many branches are in repo, returned value will be at >=0

param git_repo

Path to the repo

raises GitException

Error to do with git

return

Number of branches found

Parameters

git_repo (Path) –

Return type

Coroutine[Any, Any, int]

async git_interface.branch.delete_branch(git_repo, branch_name)

Delete an existing branch (uses –force)

param git_repo

Path to the repo

param branch_name

Branch name

raises NoBranchesException

Branch does not exist

raises GitException

Error to do with git

Parameters

- **git_repo (Union[Path, str]) –**

- **branch_name (str) –**

async git_interface.branch.get_branches(git_repo)

Get the head branch and all others

param git_repo

Path to the repo

raises GitException

Error to do with git

raises NoBranchesException

Repo has no branches

return

the head branch and other branches

Parameters

git_repo (Union[Path, str]) –

Return type

Coroutine[Any, Any, tuple[str, tuple[str]]]

```
async git_interface.branch.new_branch(git_repo, branch_name)
```

Create a new branch in repo

param **git_repo**

Path to the repo

param **branch_name**

Branch name

raises **AlreadyExistsException**

Branch already exists

raises **GitException**

Error to do with git

Parameters

- **git_repo** (*Union[Path, str]*) –
- **branch_name** (*str*) –

```
async git_interface.branch.rename_branch(git_repo, branch_name, new_branch)
```

Rename an existing branch (uses –force)

param **git_repo**

Path to the repo

param **branch_name**

Branch name

param **new_branch**

The new branch name

raises **NoBranchesException**

Branch does not exist

raises **GitException**

Error to do with git

Parameters

- **git_repo** (*Union[Path, str]*) –
- **branch_name** (*str*) –
- **new_branch** (*str*) –

2.2.4 git_interface.cat_file

Methods for using the ‘cat-file’ command

```
async git_interface.cat_file.get_object_size(git_repo, tree_ish, file_path)
```

Gets the objects size from repo

param **git_repo**

Path to the repo

param **tree_ish**

The tree ish (branch name, HEAD)

```
param file_path
    The file in the repo to read

raises UnknownRevisionException
    Invalid tree_ish or file_path

raises GitException
    Error to do with git

return
    The object size
```

Parameters

- **git_repo** (*Union[Path, str]*) –
- **tree_ish** (*str*) –
- **file_path** (*str*) –

Return type

int

```
async git_interface.cat_file.get_object_type(git_repo, tree_ish, file_path)
```

Gets the object type from repo

```
param git_repo
    Path to the repo

param tree_ish
    The tree ish (branch name, HEAD)

param file_path
    The file in the repo to read

raises UnknownRevisionException
    Invalid tree_ish or file_path

raises GitException
    Error to do with git

return
    The object type
```

Parameters

- **git_repo** (*Union[Path, str]*) –
- **tree_ish** (*str*) –
- **file_path** (*str*) –

Return type

Coroutine[Any, Any, TreeContentTypes]

```
async git_interface.cat_file.get_pretty_print(git_repo, tree_ish, file_path)
```

Gets a object from repo

```
param git_repo
    Path to the repo

param tree_ish
    The tree ish (branch name, HEAD)
```

```

param file_path
    The file in the repo to read

raises UnknownRevisionException
    Invalid tree_ish or file_path

raises GitException
    Error to do with git

return
    The object type

```

Parameters

- **git_repo** (*Union[Path, str]*) –
- **tree_ish** (*str*) –
- **file_path** (*str*) –

Return type

Coroutine[Any, Any, bytes]

2.2.5 git_interface.datatypes

Custom types that are used

```
class git_interface.datatypes.ArchiveTypes(value)
```

Bases: `Enum`

Possible archive types

`TAR = 'tar'`

`TAR_GZ = 'tar.gz'`

`ZIP = 'zip'`

```
class git_interface.datatypes.Log(commit_hash, parent_hash, author_email, author_name, commit_date, subject)
```

Bases: `object`

Represents a single git log

Parameters

- **commit_hash** (*str*) –
- **parent_hash** (*str*) –
- **author_email** (*str*) –
- **author_name** (*str*) –
- **commit_date** (*datetime*) –
- **subject** (*str*) –

`author_email: str`

`author_name: str`

```
commit_date: datetime
commit_hash: str
parent_hash: str
subject: str
```

2.2.6 git_interface.exceptions

Exceptions that could be raised during one of the git commands

exception `git_interface.exceptions.AlreadyExistsException`

Bases: `GitException`

Raised when something already exists could be repository, branch, etc

exception `git_interface.exceptions.BufferedProcessError`

Bases: `Exception`

Exception raised when non-zero return code is found

exception `git_interface.exceptions.DoesNotExistException`

Bases: `GitException`

Raised when something does not exist e.g. tag

exception `git_interface.exceptions.GitException`

Bases: `Exception`

Parent exception for all git exceptions, used when there is no other exception that fits error

exception `git_interface.exceptions.NoBranchesException`

Bases: `GitException`

Raised when a repository has no branches or none that match a filter

exception `git_interface.exceptions.NoCommitsException`

Bases: `GitException`

Raised when a repository has commits

exception `git_interface.exceptions.NoLogsException`

Bases: `GitException`

Raised when a repository has no logs available

exception `git_interface.exceptions.PathDoesNotExistInRevException`

Bases: `GitException`

Raised when a path does not exist in a repository

exception `git_interface.exceptions.UnknownRefException`

Bases: `GitException`

Raised when a reference is not found

exception `git_interface.exceptions.UnknownRevisionException`

Bases: `GitException`

Raised when a revision is not found

2.2.7 git_interface.helpers

Methods not related to git commands, but to help the program function

async git_interface.helpers.chunk_yielder(input_stream)

reads from a stream chunk by chunk until EOF. Uses DEFAULT_BUFFER_SIZE to determine max chunk size

param input_stream

The stream to read

yield

Each chunk

Parameters

input_stream (StreamReader) –

Return type

AsyncGenerator[bytes, None]

git_interface.helpers.ensure_path(path_or_str)

Ensures that given value is a pathlib.Path object.

param path_or_str

Either a path string or pathlib.Path obj

return

The value as a pathlib.Path obj

Parameters

path_or_str (Union[Path, str]) –

Return type

Path

async git_interface.helpers.subprocess_run(args, **kwargs)

Asynchronous alternative to using subprocess.run

param args

The arguments to run (len must be at least 1)

return

The completed process

Parameters

args (Iterable[str]) –

Return type

Coroutine[Any, Any, CompletedProcess]

async git_interface.helpers.subprocess_run_buffered(args)

Asynchronous alternative to using subprocess.Popen using buffered reading

param args

The arguments to run (len must be at least 1)

raises BufferedProcessError

Raised a non-zero return code is provided

yield

Each read content section

Parameters

args (*Iterable[str]*) –

Return type

AsyncGenerator[bytes, None]

2.2.8 git_interface.log

Methods for using the ‘log’ command

async `git_interface.log.get_logs(git_repo, branch=None, max_number=None, since=None, until=None)`

Generate git logs from a repo

param git_repo

Path to the repo

param branch

The branch name, defaults to None

param max_number

max number of logs to get, defaults to None

param since

Filter logs after given date, defaults to None

param until

Filter logs before given date defaults to None

raises NoCommitsException

Repo has no commits

raises UnknownRevisionException

Unknown revision/branch name

raises GitException

Error to do with git

raises NoLogsException

No logs have been generated

return

The generated logs

Parameters

- **git_repo** (*Path*) –
- **branch** (*Optional[str]*) –
- **max_number** (*Optional[int]*) –
- **since** (*Optional[datetime]*) –
- **until** (*Optional[datetime]*) –

Return type

Coroutine[Any, Any, Iterator[Log]]

2.2.9 git_interface.ls

Methods for using the ‘ls-tree’ command

```
async git_interface.ls.ls_tree(git_repo, tree_ish, recursive, use_long, path=None)
```

Get the tree of objects in repo

param git_repo

Path to the repo

param tree_ish

The tree ish (branch name, HEAD)

param recursive

Whether tree is recursive

param use_long

Whether to get object sizes

param path

Filter path, defaults to None

raises UnknownRevisionException

Unknown tree_ish

raises GitException

Error to do with git

return

The git tree

Parameters

- **git_repo** (*Union[Path, str]*) –
- **tree_ish** (*str*) –
- **recursive** (*bool*) –
- **use_long** (*bool*) –
- **path** (*Optional[Path]*) –

Return type

Coroutine[Any, Any, Iterator[TreeContent]]

2.2.10 git_interface.pack

Methods for using commands relating to git packs

```
git_interface.pack.advertise_pack(git_repo, pack_type)
```

Used to advertise packs between remote and client.

Parameters

- **git_repo** (*Union[Path, str]*) – Path to the repo
- **pack_type** (*str*) – The pack-type (‘git-upload-pack’ or ‘git-receive-pack’)

Returns

The buffered output stream as a AsyncGenerator

Return type

AsyncGenerator[bytes, None]

git_interface.pack.exchange_pack(*git_repo*, *pack_type*, *input_stream*)

Used to exchange packs between client and remote.

Parameters

- **git_repo** (*Union[Path, str]*) – Path to the repo
- **pack_type** (*str*) – The pack-type ('git-upload-pack' or 'git-receive-pack')
- **input_stream** (*AsyncGenerator[bytes, None]*) – The buffered input stream

Returns

The buffered output stream as a AsyncGenerator

Return type

AsyncGenerator[bytes, None]

async git_interface.pack.ssh_pack_exchange(*git_repo*, *pack_type*, *stdin*)

Used to handle git pack exchange for a ssh connection.

param git_repo

Path to the repo

param pack_type

The pack-type ('git-upload-pack' or 'git-receive-pack')

param stdin

Input to feed from client

yield

Output to send to client

Parameters

- **git_repo** (*Union[str, Path]*) –
- **pack_type** (*str*) –
- **stdin** (*AsyncGenerator[bytes, None]*) –

Return type

AsyncGenerator[bytes, None]

2.2.11 git_interface.rev_list

Methods for using the 'rev-list' command

async git_interface.rev_list.get_commit_count(*git_repo*, *branch=None*)

Get a repos commit count

param git_repo

Path to the repo

param branch

Branch to filter, defaults to None

raises UnknownRevisionException

Unknown tree-ish

raises GitException
 Error to do with git

return
 The commit count

Parameters

- **git_repo** (*Union[Path, str]*) –
- **branch** (*Optional[str]*) –

Return type

Coroutine[Any, Any, int]

async git_interface.rev_list.get_disk_usage(git_repo, branch=None)

Get a size of the repo

param git_repo
 Path to the repo

param branch
 Branch to filter, defaults to None

raises UnknownRevisionException
 Unknown tree-ish

raises GitException
 Error to do with git

return
 The size of the repo

Parameters

- **git_repo** (*Union[Path, str]*) –
- **branch** (*Optional[str]*) –

Return type

Coroutine[Any, Any, int]

async git_interface.rev_list.get_rev_list(git_repo, branch=None)

Get a repos revisions

param git_repo
 Path to the repo

param branch
 Branch to filter, defaults to None

raises UnknownRevisionException
 Unknown tree-ish

raises GitException
 Error to do with git

return
 The repos revisions

Parameters

- **git_repo** (*Union[Path, str]*) –
- **branch** (*Optional[str]*) –

Return type

Coroutine[Any, Any, list[str]]

2.2.12 git_interface.show

Methods for using the ‘show’ command

async git_interface.show.show_file(git_repo, tree_ish, file_path)

Read a file from a repository

param git_repo
Path to the repo

param tree_ish
The tree-ish (branch name, HEAD)

param file_path
The file in the repo to read

raises UnknownRevisionException
Unknown tree_ish

raises PathDoesNotExistInRevException
File not found in repo

raises GitException
Error to do with git

return
The read file

Parameters

- **git_repo** (*Union[Path, str]*) –
- **tree_ish** (*str*) –
- **file_path** (*str*) –

Return type

Coroutine[Any, Any, bytes]

async git_interface.show.show_file_buffered(git_repo, tree_ish, file_path)

Read a file from a repository, but using a buffered read

param git_repo
Path to the repo

param tree_ish
The tree-ish (branch name, HEAD)

param file_path
The file in the repo to read

raises UnknownRevisionException
Unknown tree_ish

raises PathDoesNotExistInRevException

File not found in repo

raises GitException

Error to do with git

yield

Each read file section

Parameters

- **git_repo** (*Union[Path, str]*) –
- **tree_ish** (*str*) –
- **file_path** (*str*) –

Return type

AsyncGenerator[bytes, None, None]

2.2.13 `git_interface.symbolic_ref`

Methods for using git symbolic-ref command

async git_interface.symbolic_ref.change_active_branch(git_repo, branch)

Change the active (HEAD) reference

param git_repo

Path to the repo

param branch

The branch name to use

raises UnknownRefException

Unknown reference given

raises GitException

Error to do with git

Parameters

- **git_repo** (*Union[Path, str]*) –
- **branch** (*str*) –

async git_interface.symbolic_ref.change_symbolic_ref(git_repo, name, ref)

Change a symbolic ref in repo

param git_repo

Path to the repo

param name

The name (for example HEAD)

param ref

The reference

raises UnknownRefException

Unknown reference given

raises GitException

Error to do with git

Parameters

- **git_repo** (*Union[Path, str]*) –
- **name** (*str*) –
- **ref** (*str*) –

async `git_interface.symbolic_ref.delete_symbolic_ref(git_repo, name)`

Delete a symbolic ref in repo

param git_repo

Path to the repo

param name

The name (for example HEAD)

raises UnknownRefException

Unknown reference given

raises GitException

Error to do with git

Parameters

- **git_repo** (*Union[Path, str]*) –
- **name** (*str*) –

async `git_interface.symbolic_ref.get_active_branch(git_repo)`

Get the active (HEAD) reference

param git_repo

Path to the repo

raises UnknownRefException

Unknown reference given

raises GitException

Error to do with git

Parameters

git_repo (*Union[Path, str]*) –

Return type

Coroutine[Any, Any, str]

async `git_interface.symbolic_ref.get_symbolic_ref(git_repo, name)`

Get a symbolic ref in repo

param git_repo

Path to the repo

param name

The name (for example HEAD)

raises UnknownRefException

Unknown reference given

raises GitException

Error to do with git

Parameters

- **git_repo** (*Union[Path, str]*) –
- **name** (*str*) –

Return type*Coroutine[Any, Any, str]*

2.2.14 git_interface.tag

Methods for using the ‘tag’ command

async git_interface.tag.create_tag(git_repo, tag_name, commit_hash=None)

Create a new lightweight tag

param git_repo
Path to the repo

param tag_name
The tag name to use

param commit_hash
Create tag on a different commit other than HEAD, defaults to None

raises AlreadyExistsException
When the tag name already exists

raises GitException
Error to do with git

Parameters

- **git_repo** (*Union[Path, str]*) –
- **tag_name** (*str*) –
- **commit_hash** (*Optional[str]*) –

async git_interface.tag.delete_tag(git_repo, tag_name)

Delete a tag

param git_repo
Path to the repo

param tag_name
The tag name to use

raises DoesNotExistException
The tag was not found

raises GitException
Error to do with git

return
Output provided by the git when a tag is removed

Parameters

- **git_repo** (*Union[Path, str]*) –
- **tag_name** (*str*) –

Return type

Coroutine[Any, Any, str]

async git_interface.tag.list_tags(git_repo, tag_pattern=None)

List all git tags or filter with a wildcard pattern

param git_repo

Path to the repo

param tag_pattern

Filter the tag list with a wildcard pattern, defaults to None

raises GitException

Error to do with git

return

List of found git tags

Parameters

- **git_repo** (*Union[Path, str]*) –

- **tag_pattern** (*Optional[str]*) –

Return type

Coroutine[Any, Any, list[str]]

2.2.15 git_interface.utils

Methods that don't fit in their own file

async git_interface.utils.add_to_staged(git_repo, path, *extra_paths)

Add files to the repository staging area

param git_repo

Where the repo is

param path

The path to add

param *extra_paths

Add more paths

raises GitException

Error to do with git

Parameters

- **git_repo** (*Union[Path, str]*) –

- **path** (*str*) –

- **extra_paths** (*tuple[str]*) –

async git_interface.utils.clone_repo(git_repo, src, bare=False, mirror=False)

Clone an exiting repo, please note this method has no way of passing passwords+usernames

param git_repo

Repo path to clone into

param src
Where to clone from

param bare
Use –bare git argument, defaults to False

param mirror
Use –mirror git argument, defaults to False

raises ValueError
Both bare and mirror are True

raises GitException
Error to do with git

Parameters

- **git_repo** (*Union[Path, str]*) –
- **src** (*str*) –

async git_interface.utils.commit_staged(*git_repo, messages*)

Commit staged files with a message(s)

param git_repo
Where the repo is

param messages
A single message or multiple

raises GitException
Error to do with git

Parameters

- **git_repo** (*Union[Path, str]*) –
- **messages** (*Union[str, tuple[str]]*) –

async git_interface.utils.get_description(*git_repo*)

Gets the set description for a repo

param git_repo
Path to the repo

return
The description

Parameters

git_repo (*Union[Path, str]*) –

Return type

Coroutine[Any, Any, str]

async git_interface.utils.get_version()

Gets the git version

raises GitException
Error to do with git

return
The version

Return type
Coroutine[Any, Any, str]

async git_interface.utils.init_repo(repo_dir, repo_name, bare=True, default_branch=None)

Creates a new git repo in the directory with the given name, if bare the repo name will have .git added at the end.

param repo_dir
Where the repo will be

param repo_name
The name of the repo

param bare
Whether the repo is bare, defaults to True

param default_branch
The branch name to use, defaults to None

raises AlreadyExistsException
A repo already exists

raises GitException
Error to do with git

Parameters

- **repo_dir** (*Path*) –
- **repo_name** (*str*) –
- **bare** (*bool*) –
- **default_branch** (*Optional[str]*) –

async git_interface.utils.run_maintenance(git_repo)

Run a maintenance git command to specified repo

param git_repo
Where the repo is

raises GitException
Error to do with git

Parameters

git_repo (*Union[Path, str]*) –

async git_interface.utils.set_description(git_repo, description)

Sets the set description for a repo

param git_repo
Path to the repo

Parameters

- **git_repo** (*Union[Path, str]*) –
- **description** (*str*) –

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