

# Package: ghdump (via r-universe)

August 14, 2024

**Title** Clone Or Download All Repos For A GitHub User

**Version** 0.1.0

**Description** Clone all of a GitHub user's repositories, or download them as zip files to a specified location and optionally unzip them. Intended for archiving or setting up a new computer.

**URL** <https://github.com/matt-dray/ghdump/>

**BugReports** <https://github.com/matt-dray/ghdump/issues>

**License** MIT + file LICENSE

**Encoding** UTF-8

**LazyData** true

**Roxygen** list(markdown = TRUE)

**RoxygenNote** 7.2.3

**Imports** cli, gh (>= 1.1.0), purrr (>= 0.3.4)

**Repository** <https://matt-dray.r-universe.dev>

**RemoteUrl** <https://github.com/matt-dray/ghdump>

**RemoteRef** HEAD

**RemoteSha** 040d6d303eeae490c30ed380cf2e9893dc6edc16

## Contents

ghd_clone_multi . . . . .	2
ghd_clone_one . . . . .	2
ghd_copy . . . . .	3
ghd_download_zips . . . . .	4
ghd_enframe_urls . . . . .	5
ghd_extract_names . . . . .	5
ghd_get_repos . . . . .	6
ghd_unzip . . . . .	6

<b>Index</b>	<b>7</b>
--------------	----------

---

ghd\_clone\_multi      *Clone Multiple Repos From A GitHub User*

---

### Description

Iterate over multiple repos for a given GitHub user, cloning them to a specified local repository.

### Usage

```
ghd_clone_multi(gh_user, names_vec, protocol, dest_dir)
```

### Arguments

gh_user	Character string. A GitHub user name.
names_vec	Character vector. Repo names for the given gh_user.
protocol	Character string. Either "https" or "ssh".
dest_dir	Character string. A local file path where the zipped repositories will be downloaded to. Must be a full path.

### Details

If you're using protocol = "ssh", you need to make sure you've [set up your SSH keys](#).

### Value

The named user's named repos cloned to the specified location.

---

ghd\_clone\_one      *Clone One Repo From A GitHub User*

---

### Description

Clone a repo for a specified user to a specified local repository.

### Usage

```
ghd_clone_one(gh_user, repo, protocol, dest_dir)
```

### Arguments

gh_user	Character string. A GitHub user name.
repo	Character string. A GitHub repo name for the named gh_user.
protocol	Character string. Either "https" or "ssh".
dest_dir	Character string. A local file path where the zipped repositories will be downloaded to. Must be a full path.

**Details**

If you're using protocol = "ssh", you need to make sure you have [set up your SSH keys](#).

If you're using protocol = "ssh", you need to make sure you've [set up your SSH keys](#).

**Value**

The named user's named repo cloned to the specified location.

---

 ghd\_copy

---

*Clone Or Download All GitHub Repositories For A User*


---

**Description**

Clone all of a GitHub user's repositories to your computer, or download them all as zip files and then optionally unzip them.

**Usage**

```
ghd_copy(gh_user, dest_dir, copy_type, protocol = NULL)
```

**Arguments**

gh_user	Character string. A GitHub user name.
dest_dir	Character string. A local file path where the clones or zipped repositories will be downloaded to. Must be a full path.
copy_type	Character string. Specify whether to "download" or "clone" the repos to your local machine.
protocol	Character string. Either "https" or "ssh". Only required if copy_type = "clone".

**Details**

Make sure you've got a GitHub account and have [generated a GitHub PAT](#) and stored it your .Renviron. If you're using protocol = "ssh", you need to make sure you have [set up your SSH keys](#).

**Value**

GitHub repositories either (a) cloned or (b) downloaded in the specified local directory.

## Examples

```
## Not run:
ghd_copy(
  gh_user = "matt-dray",
  dest_dir = "~/Documents/repos-cloned",
  copy_type = "clone",
  protocol = "https"
)

ghd_copy(
  gh_user = "matt-dray",
  dest_dir = "~/Documents/repos-downloaded",
  copy_type = "download"
)

## End(Not run)
```

---

ghd\_download\_zips

*Download Zipped Repos To Your Machine*

---

## Description

Download to a specified location the zip files from provided URL. The directory is created if it doesn't already exist.

## Usage

```
ghd_download_zips(repo_urls, dest_dir)
```

## Arguments

repo_urls	A data.frame as returned by <a href="#">ghd_enframe_urls</a> , with one row per GitHub repo with character-class columns for the repo_names and zip_url.
dest_dir	A character string. The local directory you want to download the zipped files to. Must be a full path.

## Value

Zipped GitHub repositories downloaded to a (possibly new) directory.

---

ghd_enframe_urls	<i>Create A Data Frame Of Repo Names And Zip File URLs For Each</i>
------------------	---

---

**Description**

Prepare a data frame containing each repo name and its corresponding zip file URL in the form <https://github.com/username/reponame/archive/master.zip>

**Usage**

```
ghd_enframe_urls(repo_names, gh_user)
```

**Arguments**

repo_names	A character vector of GitHub repository names, as returned by <a href="#">ghd_extract_names</a> .
gh_user	The name of a GitHub user.

**Value**

A data.frame object. One row per GitHub repo with character vector columns for the repo\_names and zip\_url.

---

ghd_extract_names	<i>Extract Names of GitHub Repos</i>
-------------------	--------------------------------------

---

**Description**

Extract all the 'name' elements from a gh\_response object. These are the names of all the GitHub repos.

**Usage**

```
ghd_extract_names(repo_object)
```

**Arguments**

repo_object	A gh_response object, as returned by <a href="#">ghd_get_repos</a> .
-------------	--

**Value**

A character vector of GitHub repo names.

---

ghd_get_repos	<i>Get GitHub Repo Information for a Named User</i>
---------------	---

---

**Description**

Uses `gh` to access the GitHub API and get the details for all of a named user's repos. To use this function you need to have created a GitHub account and to have put a GitHub Personal Access Token (PAT) in your `.Renviro`. See [Happy Git and GitHub for the UseR](#) for more information.

**Usage**

```
ghd_get_repos(gh_user)
```

**Arguments**

<code>gh_user</code>	Character string. A GitHub username.
----------------------	--------------------------------------

**Value**

A `gh_response` (list) object.

---

ghd_unzip	<i>Unzip GitHub Repositories In A Named Directory</i>
-----------	---

---

**Description**

Unzips the GitHub repositories that have been downloaded to a specified local directory and optionally deletes the zipped versions. Optionally rename all the unzipped folders to remove the "-master" suffix (e.g. "demo-repo-master" becomes "demo-repo").

**Usage**

```
ghd_unzip(dir)
```

**Arguments**

<code>dir</code>	A string. Path to a local directory containing zipped GitHub directories. These may have been downloaded using <code>ghd_download_zips</code> . Must be a full path.
------------------	--

**Value**

Unzipped GitHub repositories in a named directory.

# Index

gh, [6](#)  
ghd\_clone\_multi, [2](#)  
ghd\_clone\_one, [2](#)  
ghd\_copy, [3](#)  
ghd\_download\_zips, [4, 6](#)  
ghd\_enframe\_urls, [4, 5](#)  
ghd\_extract\_names, [5, 5](#)  
ghd\_get\_repos, [5, 6](#)  
ghd\_unzip, [6](#)