

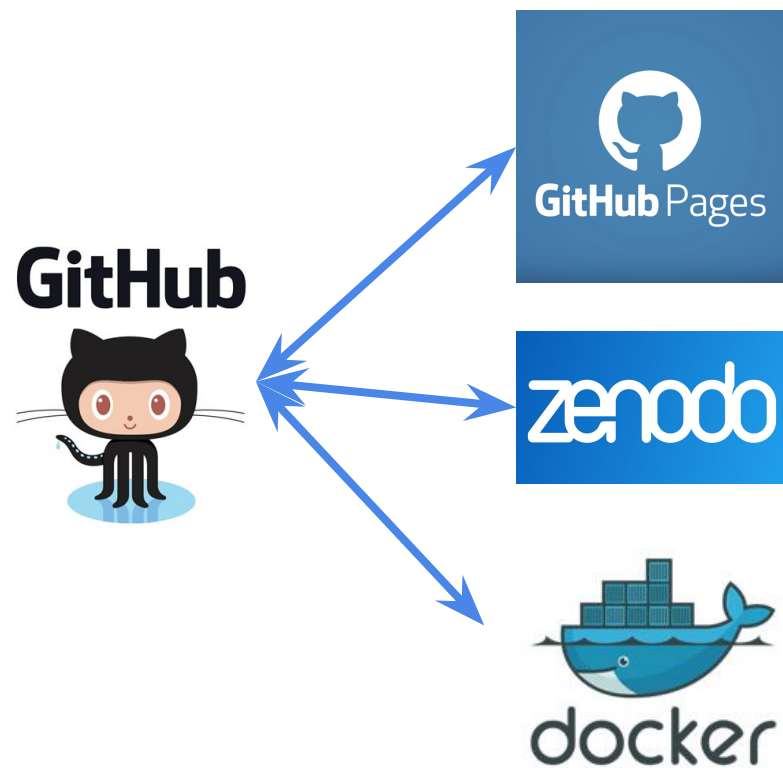
Expose your work

An example with GitHub

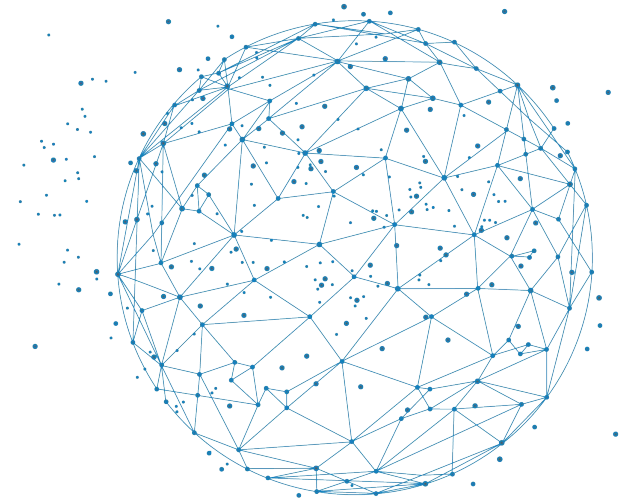
- **T. Denecker**, IFB, <https://orcid.org/0000-0003-1421-7641>

Goals of this session:

- Showcase your work
- Add a licence
- Create a release
- Obtain a DOI for the project
- Docker image hosting



Showcase your work



Why ?

- Your project is simpler to share and find

Advantages

- Free hosting of static websites
- Able to convert Markdown into a website

Documentation : <https://pages.github.com/>



The screenshot shows the GitHub repository settings page for GitHub Pages. The interface includes a top navigation bar with options like Code, Issues, Pull requests, Actions, Projects, Wiki, Security, Insights, and Settings. A red arrow labeled '1' points to the Settings menu item. On the left, a sidebar lists various settings categories, with 'Pages' highlighted and a red arrow labeled '2' pointing to it. The main content area is titled 'GitHub Pages' and contains instructions on how to enable it. A red arrow labeled '3' points to the 'Save' button in the 'Source' section, which is currently set to 'None'. Below this, there is a 'Theme Chooser' section with a 'Choose a theme' button. At the bottom, there is a notification box about publishing privately to people with read access to the repository.



<> Code Issues Pull requests Actions Projects Wiki Security Insights **Settings**

General

Access

Collaborators

Moderation options

Code and automation

Branches

Tags

Actions

Webhooks

Environments

Pages

Security

Code security and analysis

Deploy keys

Secrets

Integrations

GitHub apps

Email notifications

GitHub Pages

GitHub Pages is designed to host your personal, organization, or project pages from a GitHub repository.

Source

GitHub Pages is currently disabled. Select a source below to enable GitHub Pages for this repository. [Learn more.](#)

Branch: main / (root) Save

Theme Chooser

Select a theme to publish your site with a Jekyll theme using the gh-pages branch. [Learn more.](#)

Choose a theme

Publish privately to people with read access to this repository

Try risk-free for 30 days using a GitHub Enterprise organization, or [learn more about changing the visibility of your GitHub Pages site.](#)



<> Code Issues Pull requests Actions Projects Wiki Security Insights **Settings**

- General
- Access
 - Collaborators
 - Moderation options
- Code and automation
 - Branches
 - Tags
 - Actions
 - Webhooks
 - Environments
 - Pages**
- Security
 - Code security and analysis
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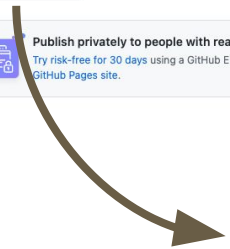
Branch: main / (root) Save

Theme Chooser

Select a theme to publish your site with a Jekyll theme using the gh-pages branch. [Learn more.](#)

Choose a theme

Publish privately to people with read access to this repository
Try risk-free for 30 days using a GitHub Enterprise organization, or learn more about changing the visibility of your GitHub Pages site.



Hide thumbnails



Select theme



Convert Markdown into HTML !

```
# Welcome !

**FAIR_Bioinfo** - ![DOI](https://zenodo.org/badge/164655551.svg) (https://zenodo.org/badge/latestdoi/164655551)

**Gitbook** - ![img.shields.io/badge/Gitbook-FAIR_Bioinfo-blue.svg](https://fair-bioinfo.gitbook.io/fair-bioinfo/)
![img.shields.io/badge/Github-FAIR_Bioinfo-Gitbook-blue.svg](https://github.com/thomasdenecker/FAIR_Bioinfo-Gitbook)
![DOI](https://zenodo.org/badge/197582632.svg) (https://zenodo.org/badge/latestdoi/197582632)

**Docker image** - ![img.shields.io/badge/Docker-FAIR_Bioinfo-blue.svg](https://hub.docker.com/r/tdenecker/fair_bioinfo) [1]
(https://images.microbadger.com/badges/image/tdenecker/fair_bioinfo.svg)
(https://microbadger.com/images/tdenecker/fair_bioinfo)

**Licence pour le code** - ![img.shields.io/badge/LICENSE-CeCILL%202.1-brightgreen.svg](https://github.com/thomasdenecker/FAIR_Bioinfo/blob/master/LICENSE)

**Licence pour le GitBook** -
[![CC BY-SA 4.0][cc-by-sa-image]][cc-by-sa]

[cc-by-sa]: http://creativecommons.org/licenses/by-sa/4.0/
[cc-by-sa-image]: https://licensebuttons.net/1/by-sa/4.0/88x31.png
[cc-by-sa-shield]: https://img.shields.io/badge/License-CC%20BY--SA%204.0-lightgrey.svg

**Bienvenue à FAIR_bioinfo**

FAIR_Bioinfo est une formation initialement pensée pour la communauté francophone. En effet, les ressources sont nombreuses concernant la reproductibilité en anglais mais un manque se faisait sentir en français. Vous trouverez tout le contenu du cours présenté dans les différentes sessions (slides en français). Nous proposons aussi la version retranscrite de ces cours au format gitbook en anglais : https://fair-bioinfo.gitbook.io/fair-bioinfo/

**FAIR_Bioinfo is a training course initially designed for the French-speaking community. Indeed, there are many resources concerning reproducibility in English but there was a lack in French. You will find all the course content presented in the different sessions (slides in French). We also offer the transcribed version of these courses in gitbook format in English: https://fair-bioinfo.gitbook.io/fair-bioinfo/*

**Informations pratiques**
- Quand ? : le dernier vendredi après midi de chaque mois (sauf juillet à définir), rdv 12h30
- Durée ? : 1h30 (questions incluses)
- Lieu ? : Salle de conférence A.Kalogeropoulos, b. 400, campus Orsay

**Objectifs**

L'objectif est de proposer et d'utiliser un panel d'outils permettant la réalisation d'un projet complet de bio-info en partant de rien et aboutissant à la création d'un conteneur (technologie Docker). Le partage, la valorisation et l'analyse dynamique des données seront inclus dans le planel.
FAIR correspond à l'acronyme anglais "Findable, Accessible, Interoperable, & Reusable", initialement défini pour les données mais que nous détournons ici pour leurs protocoles d'analyse.
Le projet support est une étude "d'expression différentielle de gènes" à partir de données RNAseq d'O.tauri.
```



FAIR Bioinformatique

Communications lors du Club FAIR Bioinformatique de l'I2BC

[View on GitHub](#) [Download .zip](#) [Download .tar.gz](#)

Welcome !

FAIR_Bioinfo - DOI 10.5281/zenodo.5105349

Gitbook - [Gitbook FAIR Bioinfo](#) [Github FAIR Bioinfo Gitbook](#) DOI 10.5281/zenodo.3624622

Docker image - [Docker FAIR Bioinfo](#)

Licence pour le code - [LICENCE CeCILL 2.1](#)

Licence pour le GitBook -

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Informations pratiques

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- Durée ? : 1h30 (questions incluses)
- Lieu ? : Salle de conférence A.Kalogeropoulos, b. 400, campus Orsay



Also works directly from HTML

1. Create a folder named "docs"

main file must be named index.html

1. "Settings" → "Options" → "GitHub Pages"

example :

<https://thomasdenecker.github.io/bPeaks-application/>

The screenshot shows the GitHub repository settings page for GitHub Pages. The left sidebar contains navigation options: General, Access, Code and automation, Security, and Integrations. The 'Pages' option is selected. The main content area is titled 'GitHub Pages' and includes the following sections:

- General:** A green checkmark indicates the site is published at <https://thomasdenecker.github.io/bPeaks-application/>.
- Source:** The site is currently being built from the `/docs` folder in the `master` branch. A 'Save' button is visible.
- Theme Chooser:** A section to select a theme to publish the site with a Jekyll theme. A 'Choose a theme' button is present.
- Custom domain:** A section to serve the site from a domain other than `thomasdenecker.github.io`. It includes a text input field, 'Save', and 'Remove' buttons.
- Enforce HTTPS:** A checkbox that is checked, indicating that HTTPS is enforced for the site.
- Footer:** A blue banner with a lock icon that reads: 'Publish privately to people with read access to this repository. Try risk-free for 30 days using a GitHub Enterprise organization, or learn more about changing the visibility of your GitHub Pages site.'

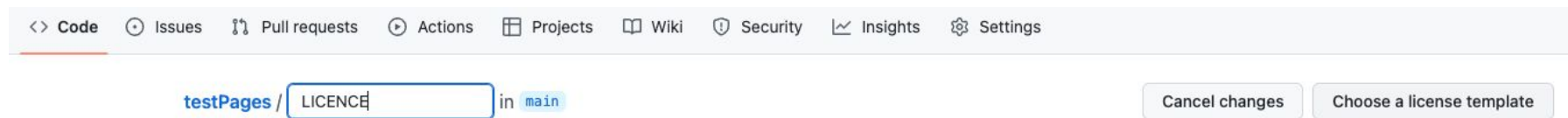


Remember to choose a licence !

This will determine whether anyone can use, modify, and distribute your code / tool / software...

<https://help.github.com/en/articles/licensing-a-repository>

1. Create a file named "LICENCE"
2. GitHub will suggest templates



The CeCILL licence (v.2.1) is recommended by the CEA, CNRS and INRIA ("CEA CNRS INRIA Logiciel Libre"). Copy it directly. <http://cecill.info/licences.fr.html>

GitHub takes care of displaying the information on your repository.

Add a license to your project

Apache License 2.0	A permissive license similar to the BSD 2-Clause License, but with a 3rd clause that prohibits others from using the name of the project or its contributors to promote derived products without written consent.															
GNU General Public License v3.0	<table border="0"><thead><tr><th>Permissions</th><th>Limitations</th><th>Conditions</th></tr></thead><tbody><tr><td>✓ Commercial use</td><td>✗ Liability</td><td>ⓘ License and copyright notice</td></tr><tr><td>✓ Modification</td><td>✗ Warranty</td><td></td></tr><tr><td>✓ Distribution</td><td></td><td></td></tr><tr><td>✓ Private use</td><td></td><td></td></tr></tbody></table>	Permissions	Limitations	Conditions	✓ Commercial use	✗ Liability	ⓘ License and copyright notice	✓ Modification	✗ Warranty		✓ Distribution			✓ Private use		
Permissions	Limitations	Conditions														
✓ Commercial use	✗ Liability	ⓘ License and copyright notice														
✓ Modification	✗ Warranty															
✓ Distribution																
✓ Private use																
MIT License																
BSD 2-Clause "Simplified" License	This is not legal advice. Learn more about repository licenses.															
BSD 3-Clause "New" or "Revised" License	<p>BSD 3-Clause License</p> <p>Copyright (c) <input type="text" value="2022"/> <input type="text" value="thomasdenecker"/> All rights reserved.</p> <p>Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:</p> <ol style="list-style-type: none">1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.3. Neither the name of the copyright holder nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission. <p>THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,</p>															
Boost Software License 1.0																
Creative Commons Zero v1.0 Universal																
Eclipse Public License 2.0																
GNU Affero General Public License v3.0																
GNU General Public License v2.0																
GNU Lesser General Public License v2.1																
Mozilla Public License 2.0																
The Unlicense																

To adopt BSD 3-Clause "New" or "Revised" License, enter your details. You'll have a chance to review before committing a LICENSE file to a new branch or the root of your project.

Year ⓘ

Full name ⓘ



Validate and merge with the main branch



thomasdenecker/testPages is licensed under the **BSD 3-Clause "New" or "Revised" License**

A permissive license similar to the BSD 2-Clause License, but with a 3rd clause that prohibits others from using the name of the project or its contributors to promote derived products without written consent.

Permissions

- ✓ Commercial use
- ✓ Modification
- ✓ Distribution
- ✓ Private use

Limitations

- ✗ Liability
- ✗ Warranty

Conditions

- ⓘ License and copyright notice

This is not legal advice. [Learn more about repository licenses.](#)



Kind reminder: consequence of not choosing a licence

<https://choosealicense.com/no-permission/>

[Home](#)

No License

When you make a creative work (which includes code), the work is under exclusive copyright by default. Unless you include a license that specifies otherwise, nobody else can copy, distribute, or modify your work without being at risk of take-downs, shake-downs, or litigation. Once the work has other contributors (each a copyright holder), "nobody" starts including you.

Even in the absence of a license file, you may grant some rights in cases where you publish your source code to a site that requires accepting terms of service. For example, if you publish your source code in a public repository on GitHub, you have accepted the [Terms of Service](#), by which you allow others to view and fork your repository. Others may not need your permission if [limitations and exceptions to copyright](#) apply to their particular situation. Neither site terms nor jurisdiction-specific copyright limitations are sufficient for the kinds of collaboration that people usually seek on a public code host, such as experimentation, modification, and sharing as fostered by an open source license.

You don't have to do anything to *not* offer a license. You may, however, wish to add a copyright notice and statement that you are not offering any license in a prominent place (e.g., your project's README) so that [users](#) don't assume you made an oversight. If you're going to [accept others'](#) contributions to your non-licensed project, you may wish to explore adding a contributor agreement to your project with your lawyer so that you maintain copyright permission from contributors, even though you're not granting the same.

Disallowing use of your code might not be what you intend by "no license." An [open source license](#) allows reuse of your code while retaining copyright. If your goal is to completely opt-out of copyright restrictions, try a [public domain dedication](#) instead.

For users

If you find software that doesn't have a license, that generally means you have no permission from the creators of the software to use, modify, or share the software. Although a code host such as GitHub may allow you to view and fork the code, this does not imply that you are permitted to use, modify, or share the software for any purpose.

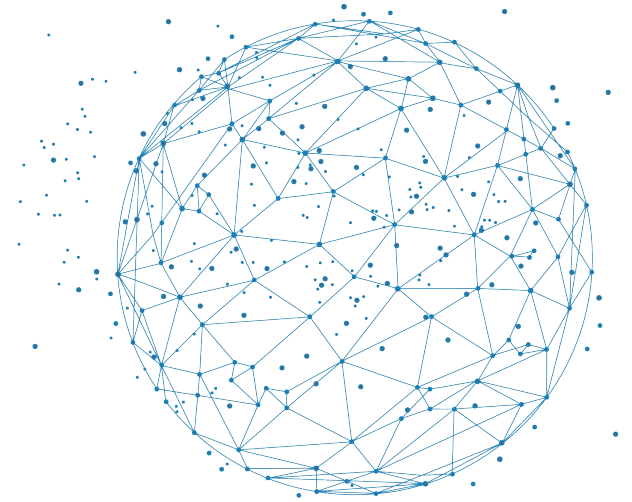
Your options:

- **Ask the maintainers nicely to add a license.** Unless the software includes strong indications to the contrary, lack of a license is probably an oversight. If the software is hosted on a site like GitHub, open an issue requesting a license and include a link to this site. If you're bold and it's fairly obvious what license is most appropriate, open a pull request to add a license – see "suggest this license" in the sidebar of the page for each license on this site (e.g., [MIT](#)).
- **Don't use the software.** Find or create an alternative that is under an open source license.
- **Negotiate a private license.** Bring your lawyer.

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[About](#) [Terms of Service](#) [Help improve this page](#)
Curated with ❤️ by GitHub, Inc. and You!

Release





Goal

provide users with a version of your code that has been fixed in time and labelled. All the steps are detailed here:

<https://help.github.com/en/articles/creating-releases>

Make a release

thomasdenecker / testPages Public

Code Issues Pull requests Actions Projects Wiki Security Insights Settings

main 2 branches 0 tags

Go to file Add file Code

About

No description, website, or topics provided.

Readme BSD-3-Clause license 0 stars 1 watching 0 forks

thomasdenecker Merge pull request #1 from thomasdenecker/add-license-1 ✓ c17f652 9 minutes ago 3 commits

LICENCE	Create LICENCE	9 minutes ago
README.md	Initial commit	30 minutes ago

README.md

testPages

Releases

No releases published
Create a new release

Packages

No packages published
Publish your first package

Environments

github-pages (Active)

Releases Tags

Choose a tag Target: main

Choose an existing tag, or create a new tag when you publish this release.

Release title

Write Preview

H B I E < > @ ↶ ↷ + Auto-generate release notes

Describe this release

Attach files by dragging & dropping, selecting or pasting them.

Attach binaries by dropping them here or selecting them.

This is a pre-release
We'll point out that this release is identified as non-production ready.

Publish release Save draft

Tagging suggestions

It's common practice to prefix your version names with the letter v. Some good tag names might be v1.0.0 or v2.3.4.

If the tag isn't meant for production use, add a pre-release version after the version name. Some good pre-release versions might be v0.2.0-alpha or v5.9-beta.3.

Semantic versioning

If you're new to releasing software, we highly recommend reading about [semantic versioning](#).



Semantic of a release number

1.0.0

MAJOR.MINOR.PATCH

MAJOR : changes not backwards-compatible



MINOR : new/modified functionalities, backwards-compatible





PATCH : bug fixes, backwards-compatible More details : <https://semver.org/>



First release for test page



First release


Compare  

 thomasdenecker released this now  1.0.0  cf7fd52 

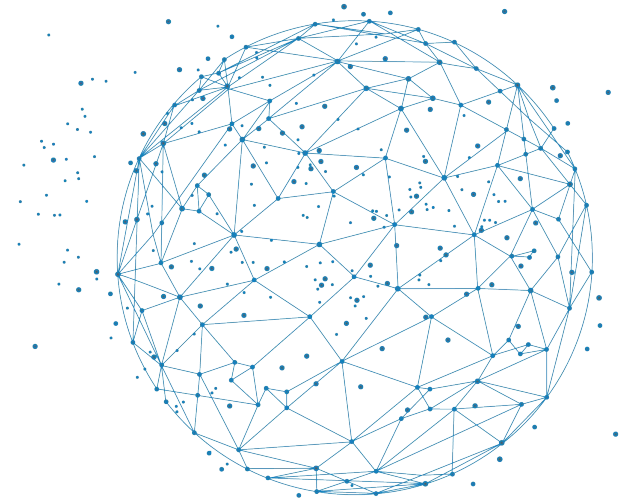
First release

▼ **Assets** 2

 Source code (zip)	13 minutes ago
 Source code (tar.gz)	13 minutes ago



Obtain a DOI





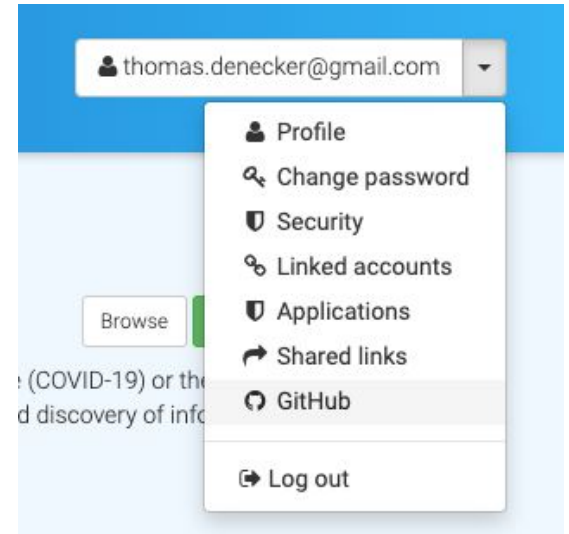
Digital Object Identifier

Reference system to cite an object (A GitHub project in our case)




<https://docs.github.com/en/repositories/archiving-a-github-repository/referencing-and-citing-content>

1. Sign in to Zenodo
 - With your GitHub account
 - With your ORCID account (add a "Linked account" to GitHub afterwards)
1. Go to the Settings page ! GitHub tab





3. In the list below, find the project you want to link to Zenodo. Flip the switch.

 [thomasdenecker/testPages](#) OFF

4. Create a new issue




thomasdenecker/testPages

ON


DOI [10.5281/zenodo.6606480](https://doi.org/10.5281/zenodo.6606480)

GitHub / Releases

 Create release ...

 1.0.1 thomasdenecker/testPages: Zenodo

 Published

 DOI: [10.5281/zenodo.6606480](https://doi.org/10.5281/zenodo.6606480)

7 seconds ago

 Zenodo



You can add the doi badge in your README

DOI Badge

This badge points to the latest released version of your repository. If you want a DOI badge for a specific release, please follow the DOI link for one of the specific releases and grab badge from the archived record.

Markdown

```
[! [DOI] (https://zenodo.org/badge/499069909.svg)] (https://zenodo.org/bad
```

reStructuredText

```
.. image:: https://zenodo.org/badge/499069909.svg  
   :target: https://zenodo.org/badge/latestdoi/499069909
```

HTML

```
<a href="https://zenodo.org/badge/latestdoi/499069909"><img src="https:
```

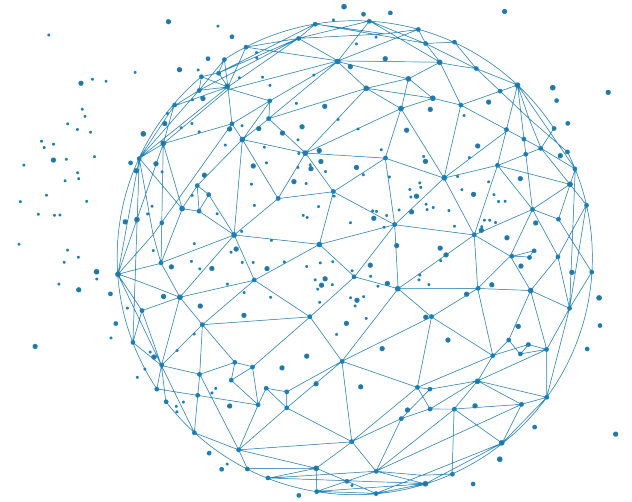
Image URL

```
https://zenodo.org/badge/499069909.svg
```

Target URL

```
https://zenodo.org/badge/latestdoi/499069909
```


Docker image hosting





<https://github.com/features/packages>

 **hello-world-npm** 1.0.2 Latest version

Install from the command line: [Learn more](#)

```
$ npm install @codertocat/hello-world-npm@1.0.2
```

Install via package.json:

```
"@codertocat/hello-world-npm": "1.0.2"
```

About this package

hello-world-npm

This is a simple npm package that demonstrates the [GitHub Package Registry](#).

Installation

Before installing, make sure to authenticate with GitHub Package Registry or using a `.npmrc` file. See ["Configuring npm for use with GitHub Package Registry"](#).

```
$ npm install @codertocat/hello-world-npm
```

Or add this package to your `package.json` file:

```
"dependencies": {  
  "@codertocat/hello-world-npm": "1.0.0"  
}
```

Usage

```
const myPackage = require('@codertocat/hello-world-npm');  
myPackage.helloWorld();
```

Details

 **Codertocat**
May 10, 2019
60b5a7e
1.0.2

Assets

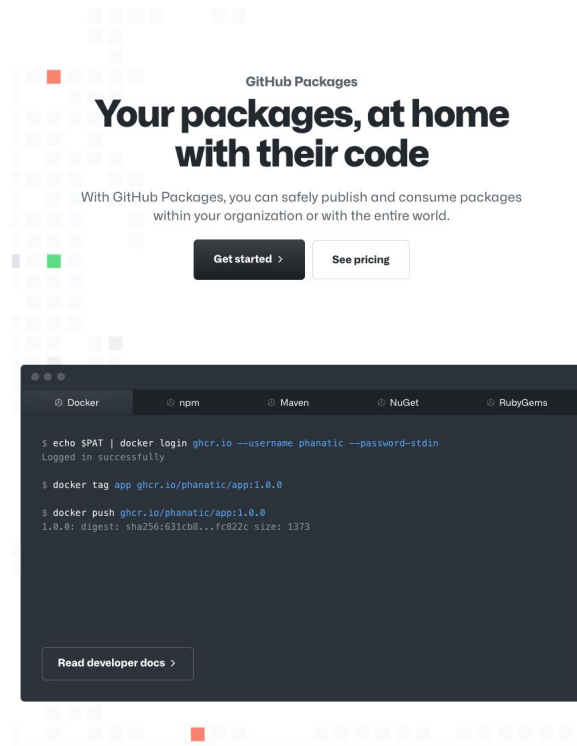
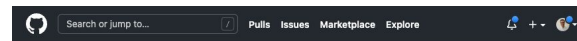
 [hello-world-npm-1.0.2-npm.tgz](#)

Download activity

Total downloads	331
Last 30 days	0
Last week	0
Today	0

Recent versions

1.0.2 on 10 May 2019
1.0.1 on 10 May 2019
1.0.0 on 10 May 2019



GitHub Packages

Your packages, at home with their code

With GitHub Packages, you can safely publish and consume packages within your organization or with the entire world.

[Get started >](#) [See pricing](#)

```
$ echo SPAT | docker login ghcr.io --username phanatic --password-stdin  
Logged in successfully  
  
$ docker tag app ghcr.io/phanatic/app:1.0.0  
  
$ docker push ghcr.io/phanatic/app:1.0.0  
1.0.0: digest: sha256:631c08...fc822c size: 1373
```

[Read developer docs >](#)