Share and Preserve Your Code

Publishing your code offers many benefits. In addition to preserving your code and making it accessible to others, publishing also ensures others can cite it, reproduce it, and helps you contribute to the open science movement.

This guide will show you how to use Github to publish your code and Zenodo to archive it and create a citable DOI for your software.

First: Set Up a GitHub Repository

A GitHub repository can house anything relevant to your project (including code, API documentation, data sets, spreadsheets, etc.) It will have a unique URL you can share with others.

1. Log in to GitHub.
2. Click the green “Create Repository” button
3. Choose a descriptive name and write a brief description for your repository.
4. Make the repository public (this allows you to archive it).
5. Add a README file now or add it later (just make sure you include one!)
6. Choose which files not to track (if applicable).
7. Choose a license for your repository.
8. Create your repository.
Next: Archive Your Repository in Zenodo

Zenodo is an open repository that preserves your code and will archive your GitHub repository each time you create a new release. Each submission in Zenodo will be assigned a DOI (digital object identifier), meaning your code can be cited by others.

Archiving in Zenodo requires two steps: linking your GitHub repository with Zenodo and then creating and publishing a release of your repository.

Link GitHub with Zenodo:

1. Log in to Zenodo with your GitHub account. (Zenodo may prompt you to authorize GitHub).
2. From the drop-down menu next to your email address, select GitHub.

3. You will see your GitHub repositories. If needed, choose “Sync Now” to update.
Archive Your Repository

1. Toggle the "on" button next to the repository you want to archive.

2. Click on the name of the repository.

3. Choose the “Create Release” button. This redirects you back to GitHub’s repository page.

4. Complete the fields (title, description, version number.) If this is your first release, use version number v1.0.0.

5. Click “Publish Release” at the bottom of the page.
Add Your Repository to the University of Iowa Community on Zenodo

*Uploading your repository to the UIowa community will allow other UIowa researchers to easily find your code (and for you to find theirs!)*

1. From your list of Zenodo repositories, click the DOI link for the repo you want to add.
2. Choose “edit.”

3. Search for and choose the University of Iowa community.

4. Save
What Now?
If you return to Zenodo and access GitHub through Zenodo, you should see your repository listed under “Enabled Repositories” with a blue DOI button next to it. (If it’s not there, choose “Sync Now”).

Now you can:
1. Edit the archive and/or publish a new version.
2. Add a description of the repository and write the metadata.
3. Click the blue DOI button to copy the badge in Markdown and add it to your README in GitHub.