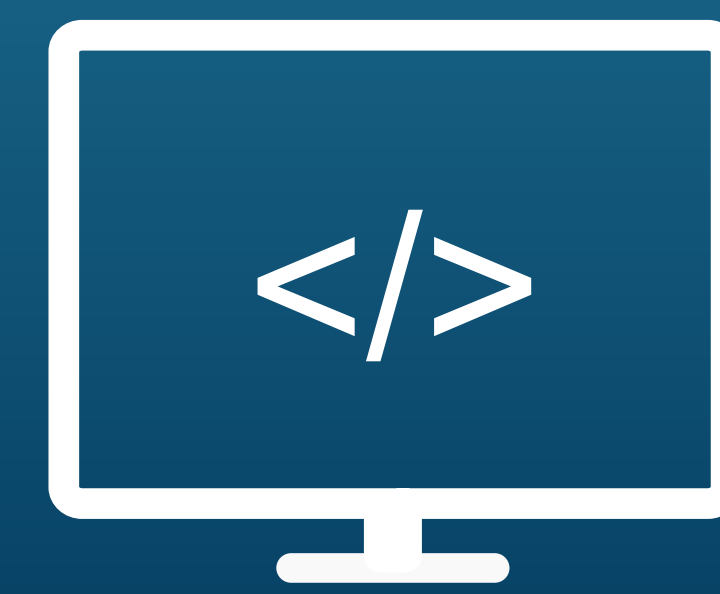


# DOE CODE



CREATE



SUBMIT



DISCOVER

## SCIENTIFIC AND BUSINESS SOFTWARE

DOE CODE includes and allows submission of both scientific and business software funded by DOE, with links to the software or code repository. This collection:

- fosters scientific progress;
- provides transparency;
- promotes public uptake of DOE-funded open source software; and
- enables DOE to fulfill requirements for government-wide reporting of custom-developed software to Code.gov.

Submit New Software Project  
Which type of software are you submitting?

Scientific or Business

## SUBMITTING & ANNOUNCING SOFTWARE TO DOE CODE

### Submitting Software

- Minimal set of metadata required
- DOI may be obtained for the code
- Use cases are codes in early development

### Announcing Software

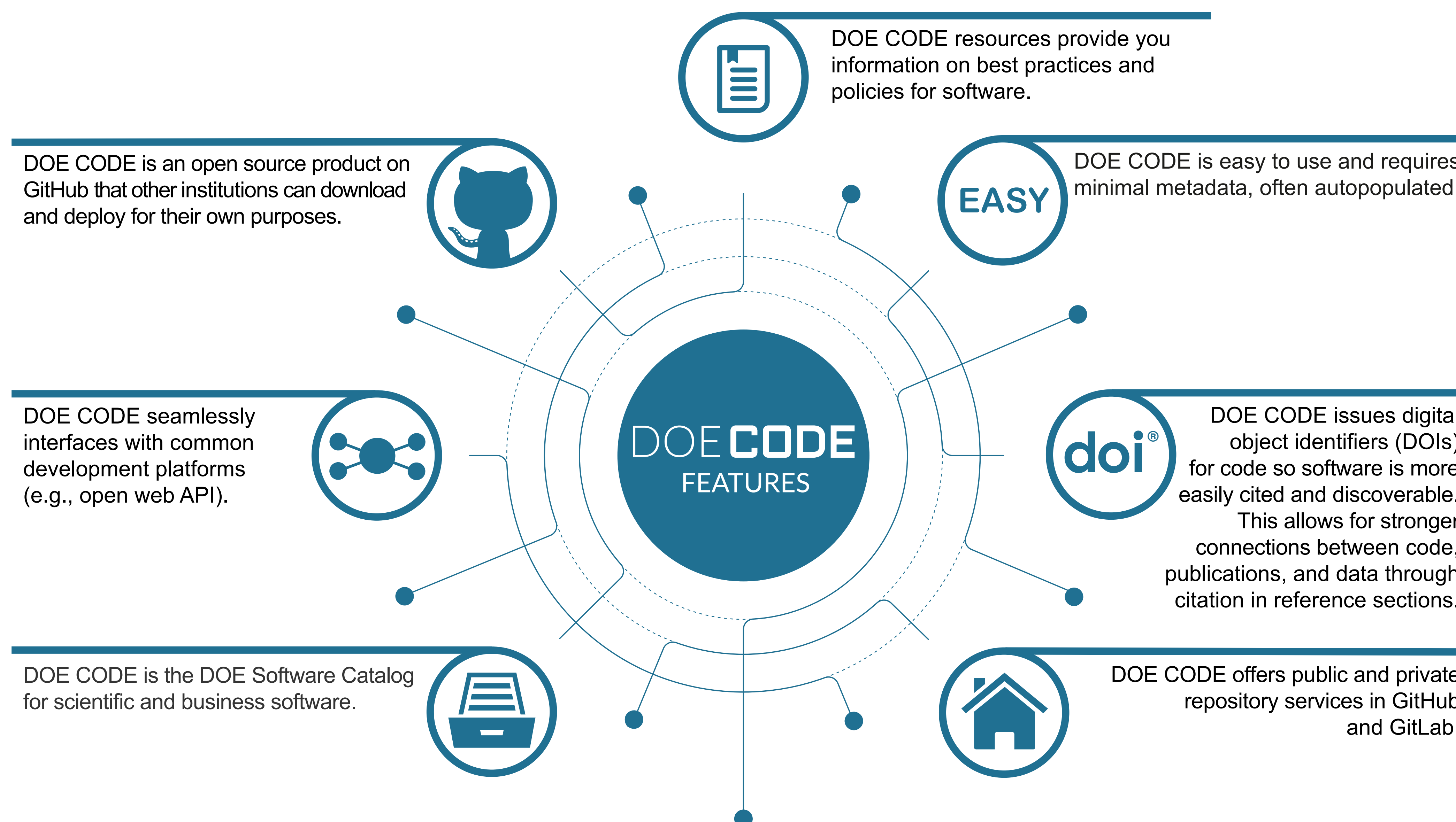
- Ensures announcement and dissemination in accordance with DOE statutory responsibilities
- DOI assigned and registered
- Use cases are codes in later stages of development

Required Metadata to Submit to DOE CODE	Required Metadata to Announce to DOE CODE
<ul style="list-style-type: none"><li>• Project Type</li><li>• Repository Link; Landing Page; Source Code or Compiled Binary</li><li>• Software Title</li><li>• Description/Abstract</li><li>• License(s)</li><li>• Developers</li></ul>	<ul style="list-style-type: none"><li>• Project Type</li><li>• Repository Link; Landing Page; Source Code or Compiled Binary</li><li>• Software Title</li><li>• Description/Abstract</li><li>• License(s)</li><li>• Developers</li><li>• Release Date</li><li>• Sponsoring Organization Name</li><li>• Primary Award Number</li><li>• Research Organization Name</li><li>• Contact Information</li></ul>

## YAML FILE

DOE CODE allows users to auto-populate metadata by placing a formatted YAML file in their repository's root main directory. The file must be named "doecode.yml" or "metadata.yml" and formatted correctly.

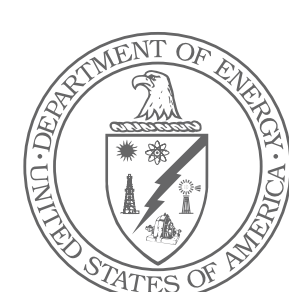
## DOE software services platform and search tool for DOE-funded code



### Abstract

DOE CODE is the U.S. Department of Energy's software services platform and search tool for software resulting from DOE-funded research. DOE CODE makes it easy for DOE-funded researchers and scientific software developers to share software and discover other code. The Alpha release, launched on November 1st, 2017, provides for submission of software, and offers an open source, social platform – connecting to repositories such as GitHub, Bitbucket, and others. DOE CODE also provides a place to host code for users that are unable to use other hosting services. Because DOE CODE was developed as an open source product, other institutions will be able to deploy the software for their own purposes. OSTI and the DOE software community worked together to create DOE CODE; as development of DOE CODE continues toward Beta and Production releases, OSTI plans to add more features and functionalities to support the DOE research efforts.

[www.osti.gov/doecode](http://www.osti.gov/doecode)



U.S. DEPARTMENT OF  
**ENERGY**

Office of  
Science

Office of Scientific and  
Technical Information

## REPOSITORY SERVICES AND GITHUB COMMUNITY

DOE CODE provides repository hosting services for the DOE community via GitHub and GitLab.

- OSTI's GitHub repository service is for those who want typical GitHub open source project functionality.
- OSTI's GitLab repository service offers the same functionality as the GitHub repository service, but allows for open or closed repositories and more control of the code.

Create a new project on our open source GitHub community

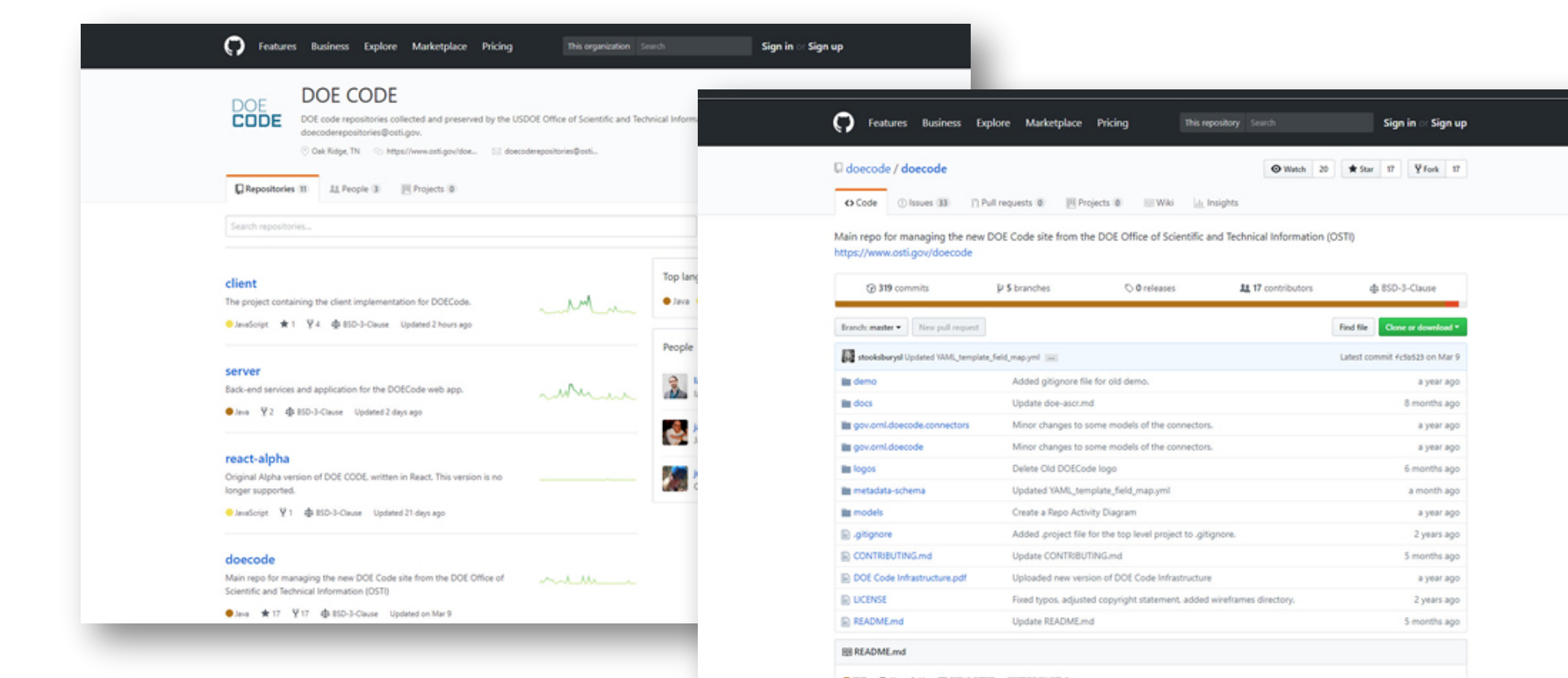
or

Create a new project on our internal DOE CODE repository where you can control access to the project.

If you are interested in making use of the GitHub or GitLab repository services and would like to request to join the DOE CODE GitHub community, please fill out the [request form](#). For any questions about the repository services, contact [doecoderepositories@osti.gov](mailto:doecoderepositories@osti.gov).

OSTI recognizes that many developers prefer to house and manage their projects on GitHub. The DOE CODE GitHub Community is a repository option available to DOE-funded developers, where users are welcome to create and import their own repositories. To request to join the DOE CODE GitHub community, please fill out the [request form](https://www.osti.gov/doecode/gitlab-signup) (<https://www.osti.gov/doecode/gitlab-signup>).

DOE CODE is an open source project and is also available on GitHub.



## CURRENT AND UPCOMING WORK

### Current Work

- Support for submission of Closed-Source legacy binaries and OSTI-hosted repositories
- Automated creation of OSTI-hosted GitLab repositories for certain Closed-Source projects
- Notifications to technical, legal, STI Software POC when a record from their site is Submitted/Announced
- New optional metadata fields:
  - Programming Language (authority driven type-ahead)
  - Version Number
  - Documentation URL
- Additional improvements and bug fixes

### Upcoming Work

- Migration of legacy ESTSC binaries and closed source software/codes
- More streamlined integration with E-Link and OSTI.GOV
- Handling protected and limited distribution software
- Improved interaction between DOE CODE and Code.gov
- Continue toward a unified user environment