

Developer Guidelines and Tools

Guidelines for developing with DSpace, including Git hints, IDE setup, other useful tools, etc.

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Code Contribution Guidelines

- [Code Contribution Guidelines](#) - Provides details on our Code Approval processes and our DSpace code conventions! **Before you get started on your project, make sure you understand our Code Contribution Guidelines!**

Developing With Git/GitHub

The DSpace codebase is in GitHub:

- Backend/Java codebase: <https://github.com/DSpace/DSpace>
- DSpace 7 UI codebase: <https://github.com/DSpace/dspace-angular>

If you are new to Git or GitHub development, the following resources that may be of interest to you.

- [DSpace Development with Git](#) - Some hints/tips on DSpace Development with Git/GitHub
- [Git Resources](#) - Useful third-party resources/tutorials on Git or GitHub

Still want to use SVN locally, even though DSpace is on GitHub?

- GitHub does provide some basic SVN client support (e.g. checkout via SVN): <https://github.com/blog/966-improved-subversion-client-support>
- Or, you could obviously download the zipped up DSpace release packages and import them into your local SVN

Developing Environments (IDEs)

You are free to use whatever developer environment works for you. Here are some guides for setting up and using particular environments.

- IntelliJ IDEA
 - [IDE Integration - DSpace and IDEA](#) (covers IDEA + maven + ant + tomcat).
- NetBeans
 - [IDE Integration - DSpace and NetBeans](#)
- Eclipse (*Instructions are outdated: Most of our active developers/committers tend to use either IDEA or NetBeans.*)
 - [IDE Integration - DSpace, Eclipse and Tomcat](#)
 - [How to setup Eclipse, Tomcat, and DSpace for Development](#) (Scott Phillips' blog)
 - [Creating and Applying Patches in Eclipse](#)
- Docker Compose - A great way to get started quickly with DSpace development! Docker scripts can be found in the source code
 - Backend: <https://github.com/DSpace/DSpace/blob/main/dspace/src/main/docker-compose/README.md>
 - Frontend: <https://github.com/DSpace/dspace-angular/blob/main/docker/README.md>
- Any source editor
 - [Building DSpace From Source](#)

Also, if you are interested in using **Git/GitHub** for local DSpace development see this for hints/tips:

- [Tracking your source code with Git](#)

Useful tools

- [Luke](#) - for work with Lucene indexes & queries, see [Debug lucene query](#)
- [Eclipse ResourceBundleEditor](#) - for work with i18n Internationalization in JSPUI, see [I18nSupport#Eclipse_Resource_Bundle_Editor](#)

Other Resources

- [How To Guides](#)
- [System Docs](#) for latest stable release