

# 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- Eclipse (*Instructions are outdated: Most of our active developers/committers tend to use either IDEA or NetBeans.*)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