

# CIShell 2.0 Developer Documentation

## CShell 2.0

### What's new

- Maven/Tycho build support
- Support build in Eclipse workspace
- Support JUnit Test framework
- Updated Eclipse Equinox to 3.7
- Built with Java 1.6
- Support Mac OS X Cocoa frameworks platform
- Web service support for CIShell plugins
- Updated to Google Guava 11.0.1
- Updated to Apache Common 3.0
- Enhanced Logging service for debugging
- Standardize equals / hash handling
- Added Data wrapping utility library to clone existing Data
- Added network utilities package

### Documentation

[Hackathon 2012 @ Microscopes Workshop](#)

#### Get familiar with CIShell

1. [CIShell Basics](#)
2. [Setting Up the Development Environment](#)
3. [Tutorial 1: Developing a Single Plugin](#)
4. [Tutorial 2: Manipulate Tabular Data](#)
5. [Tutorial 3: Practical Java Algorithm Development](#)
6. [Tutorial 4: Integrating a Non-Java Program As An Algorithm](#)
7. [Tutorial 5: Integrating 3rd-party libraries](#)
8. [Supported Data Formats](#)
9. [Existing CIShell Algorithms documentation](#)

#### Extensive CIShell development

1. [Eclipse development setup for CIShell and Sci2](#)
2. [Check out CIShell source and run Maven build](#)
3. [Quick Start](#)
4. [Using Maven with a Hello World Plugin for CIShell](#)

#### Source Code Repositories

- [Source Code Repository Listing](#)



#### Sci2 Development

If you are interested with Sci2 algorithms, you should also use the following SVN repository. It contains the 181 algorithms from NWB, Sci2, and Epic tools.

<http://nwb.cns.iu.edu/svn/nwb/trunk>

#### Blog Posts



#### [Future Direction for CIShell Utilities](#)

David Coe posted on Aug 30, 2012

Future Direction for the Utilities Current Problems The current state of the utilities in CIShell has reached a point that it should be reworked. Some of the problems we have identified with the current implementation include: Lots of outdated code that later versions of Java have fixed Lots of poorly coded and buggy methods Lots of code that doesn't have anything to do with CIShell,...

