

# 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 CShell Utilities](#)

David Coe posted on Aug 30, 2012

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 Some of the problems we have identified with the current implementation include: Lots of outdated code that later versions of Java have fixed Lots of poorly coded and buggy methods Lots of code that doesn't have anything to do with CShell,...