

- Held in Dresden, Germany at MPI-CBG
  - <http://developer.imagej.net/hackathons/2011-dresden>
  - [http://fiji.sc/2011-12-14\\_-\\_Fiji\\_Hackathon\\_in\\_Dresden](http://fiji.sc/2011-12-14_-_Fiji_Hackathon_in_Dresden)
- Goals:
  - Focused coding
  - Developer discussions
- Theme: Interoperability



**ImageJ/Fiji Dec 2011 Hackathon**

- ImageJ is a Java image processing program
- Designed with an open architecture that provides extensibility via plugins
- 100s of plugins now exist for solving image analysis problems in the life sciences



# ImageJ



- Fiji is a project aiming at simplifying
  - The installation of ImageJ
  - The usage of ImageJ
  - The usage of specific, powerful ImageJ plugins
  - The development of plugins using ImageJ

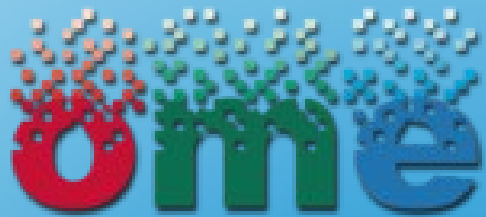
**Fiji**

- NIH-funded project to produce the next generation of ImageJ
- Partnership between several institutions:
  - LOCI at UW-Madison
  - Fiji developers (MPI-CBG, Uni/ETH Zurich, etc.)
  - OME consortium
  - Broad Institute of MIT and Harvard



**ImageJ2**

- Topic of this hackathon was interoperability
- Major goal was to unify Fiji + ImageJ2
- Also wanted to pursue interoperability between related software packages:



**Interoperability**

- Also present at previous hackathons:

The logo for the Insight Toolkit (ITK) features the lowercase letters 'itk' in a blue, sans-serif font. The letter 'i' is stylized with a yellow vertical line and a blue dot. To the right of 'itk', the words 'Insight Toolkit' are written in a smaller, italicized, grey sans-serif font.



**Interoperability**

- Improved ImageJ2 codebase
  - Better overlays
- Migrated and unified ImageJ2 web resources:
  - <http://imagej.net/>
  - <http://developer.imagej.net/>
  - <http://code.imagej.net/>
  - <http://update.imagej.net/>
  - [imagej-devel@imagej.net](mailto:imagej-devel@imagej.net)

# Accomplishments

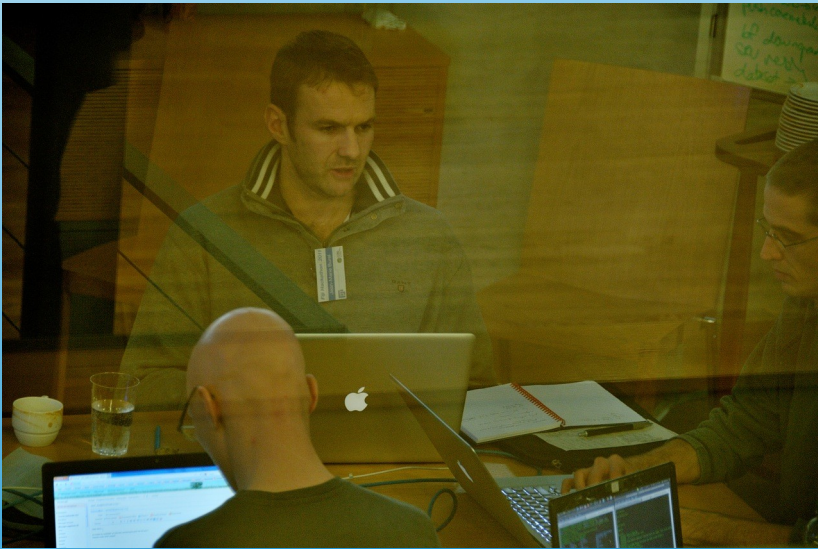


- ImageJ2 plugin integration:
  - Martin Horn got IJ2 plugins working as a KNIME Image Processing (KNIP) node
  - Talked to Stephane Dallongeville about IJ2 plugin integration in ICY
  - Worked with Bene Schmid to adapt 3D Viewer plugins to use IJ2 plugin framework

**Accomplishments**



- ImageJ2 plugin integration:
  - Jean-Marie got IJ2 plugins working in Insight
  - Worked with Josh Moore to prepare IJ2 for OMERO server-side plugin execution



# Accomplishments

- Showed IJ2 design and features
  - Michael Doube posted a tutorial:
    - <http://developer.imagej.net/writing-imagej-plugins>
  - Some difficulties with SezPoz-based metadata
  - Discussed ways to improve the situation with Josh Moore & Johannes Schindelin

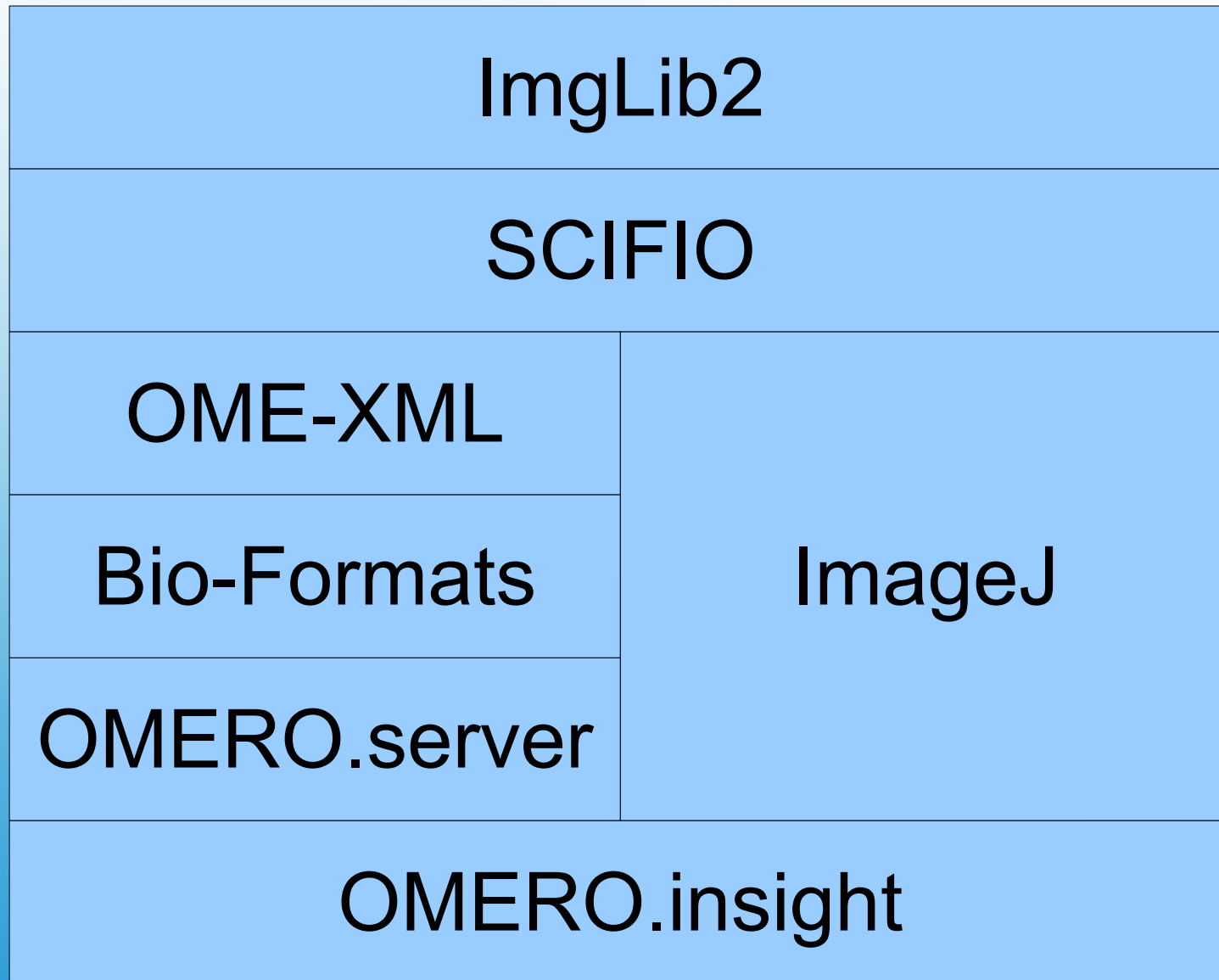


# Accomplishments



- How to have a coherent, non-overlapping software suite?
- What are the potential areas of collaboration?
- Which code can we reuse where?

# Discussions



# Possible SciJava Software Stack



