

# Apache Commons Imaging

Jan Helbich  
[helbijan@fel.cvut.cz](mailto:helbijan@fel.cvut.cz)  
ČVUT FEL

# Apache Commons Imaging

- Open source library for processing various types of images
- Fully implemented in Java
- Developed since 2004
- Project home page is <http://commons.apache.org/proper/commons-imaging/>

# Apache Commons Imaging

- One of Apache software foundation projects, available under Apache Licence
- Repositories are on both subversion and public at gitHub
- 8 official developers, many contributors
- Runs on any VM with Java 1.5+

# Key features

- No native code for image processing → great portability
- Good performance despite no native code
- Security against corrupt images
- Simple API, much more developer friendly than ImageIO, `java.awt.Toolkit`

# My contribution

- Fixing a bug in unit tests that did not check for duplicates in metadata and therefore tests of TIFF images in old Microsoft XP format failed
- Patch was submitted to gitHub as a pull request
- Review frequency is low

# Experiences

- Positive
  - quick community feedback
  - contributors demand quality over quantity – leads to clean source code, good documentation ...
  - contribution itself is easy to submit
- Negative
  - mailing list is common for whole Apache commons project -> ~~100 emails a day!!!

Thank you for attention