

ITKv4

Integration with Applications

Applications

- V3D
- ImageJ
- CellProfiler
- Farsight
- VV
- OrfeoToolbox

V3D

- Hanchuan Peng – HHMI – Janelia Farm
- Microscopy Image Analysis and Visualization
- ITK Plugins since June 2010
 - Three Hackathons at Janelia Farm
- ITKv4 Update Hackathon
 - August 7-12 2011

ImageJ

- ImageJ -
- ImageJdev + FIJI
- Imglib (Java + Templates)
- Hackathon – February 2011
 - Opted for JNI
 - Implemented cross-compilation
 - FIJI binary distribution model

CellProfiler

- Ann Carpenter – Broad Institute
- Python
- Cold Spring Harbor Lab meeting
 - High Throughput Image Analysis
- Already integrated with ImageJ
- Large collection of tools
- Need for Algorithms : Segmentation
 - Natural synergy with ITK

Farsight

- Badri Roysam – University of Houston
- Zack Gabrealth – Kitware
- Migrated to ITKv4 on June 2011
 - Triggered by Windows 64bits needs
 - Image larger than 4 Gb

VV

- Creatis – France
- Migrated to ITKv4
- Nightly build of VV in ITK Dashboard
- External build

Orfeo Toolbox

- CNES – France
- Migrated to ITKv4 – ongoing
- Orfeo has a collection of patches for ITK
- ISSUE: `std::complex`
 - Native type for their SAR images
- We should schedule joint efforts
 - Hackathon ?

Migration Major Changes

- `ITK_LIBRARIES`
- `OStringStream`
- Statistics Framework
- LabelMaps features renaming
- Modularization

END