

STATUS OF THE ITK TOOLKIT

HANS J. JOHNSON

Author	Commits (%)	+ lines	- lines	First commit	Last commit	Age	Active days	# by commits
Brad King	443 (14.52%)	7678	57189	2010-08-02	2011-06-08	309 days, 22:26:59	90	1
Luis Ibanez	375 (12.30%)	141699	108051	2010-08-20	2011-06-09	292 days, 22:53:22	123	2
Gaëtan Lehmann	349 (11.44%)	92661	59237	2010-07-26	2011-06-10	318 days, 21:05:44	120	3
KWSys Robot	315 (10.33%)	327	327	2010-07-31	2011-06-11	315 days, 0:00:14	314	4
Xiaoxiao Liu	239 (7.84%)	1753891	1736451	2010-12-14	2011-05-26	163 days, 7:08:27	80	5
Bill Lorensen	215 (7.05%)	7904	11451	2010-09-26	2011-06-11	258 days, 7:11:48	106	6
Hans Johnson	184 (6.03%)	247240	295906	2010-07-29	2011-06-26	332 days, 5:47:29	82	7
Bradley Lowekamp	180 (5.90%)	7413	6289	2010-08-03	2011-05-13	282 days, 15:06:47	69	8
Arnaud Gelas	177 (5.80%)	18196	8767	2010-08-02	2011-06-11	313 days, 2:39:26	67	9
Kent Williams	151 (4.95%)	13271	5960	2010-10-13	2011-06-10	240 days, 2:45:56	66	10
Mathieu Malaterre	89 (2.92%)	252972	58377	2010-08-24	2011-01-20	149 days, 0:54:12	31	11
Cory Quammen	35 (1.15%)	2081	201	2010-09-02	2011-06-11	281 days, 23:20:18	20	12
Michael Stauffer	34 (1.11%)	4255	870	2010-11-09	2011-04-26	168 days, 0:15:40	26	13
David Doria	29 (0.95%)	1790	816	2010-10-23	2011-05-16	204 days, 17:17:50	17	14
Matt McCormick (thewtex)	28 (0.92%)	2853	578	2010-09-03	2011-02-19	169 days, 11:50:56	20	15
David Cole	25 (0.82%)	5587	5152	2010-09-08	2011-05-03	236 days, 20:54:51	20	16
Mark Roden	21 (0.69%)	614	406	2010-08-25	2011-03-30	216 days, 21:33:19	9	17
Sean McBride	18 (0.59%)	24	82	2010-12-16	2011-05-18	153 days, 4:02:15	11	18
Nick Tustison	16 (0.52%)	10566	5531	2010-12-12	2011-06-01	170 days, 17:05:43	15	19
Marcus D. Hanwell	14 (0.46%)	228	69	2010-10-14	2010-11-17	34 days, 1:09:59	9	20

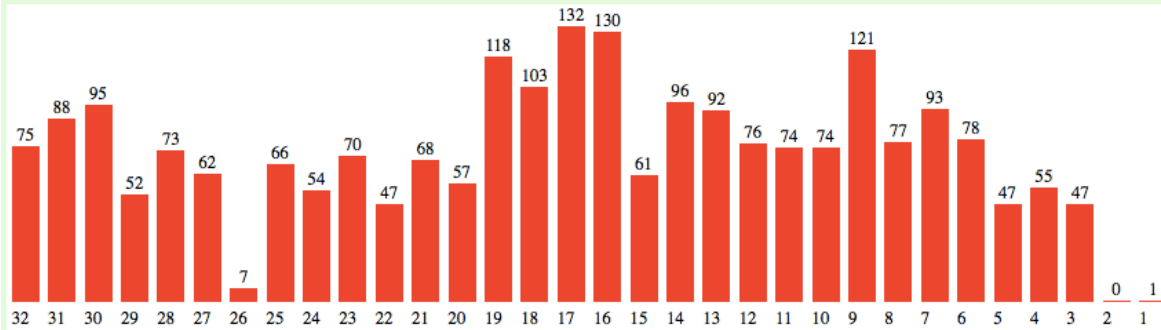
```
./gitstats/gitstats -c commit_begin=5f6b8ec8de1967a364a0bb2d476455b1e99564c9 \
-c commit_end=HEAD ~/Dashboard/src/ITK ITKv4_Report
```



WHEN? GIT COMMITS

Weekly activity

Last 32 weeks



Hour of Week

Weekday	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Mon	46	2	1	5	2	11	2	4	27	39	39	33	31	38	49	31	29	14	12	8	2	8	7	4
Tue	48	7	3	3	14	17	3	10	23	46	61	48	32	58	34	43	34	43	17	9	9	9	21	5
Wed	50			8	6	10	2	16	21	36	44	53	26	34	43	35	43	36	20	2	9	5	8	4
Thu	56	7	2	6	10	8	5	11	32	54	58	31	29	34	37	38	35	18	17	9		8	6	6
Fri	50	1		3	10	11	8	17	27	44	45	30	31	36	26	36	22	30	21	8	5	5	4	4
Sat	50	3	2	2	1	2	2	8	14	21	17	18	20	20	13	13	14	7	7	5	12	5	4	6
Sun	46	5	3	2	2			2	11	10	15	17	25	4	7	10	13	25	10	8	4	7	7	8

HOW? GERRIT

ID	Subject	Owner	Project	Branch
Ica54e8ce	ENH: Add an extrapolator to ResampleImageFilter.	Matthew McCormick	ITK	master (ResampleImageFilter_extrapolator)
I2f7cce71	ENH: generating doxygen documentation for a single file/module	Arnaud Gelas	ITK	master (single-doxgen)
Ibc6c86ac	ENH: Use LF newlines in ExternalData content links	Brad King	ITK	master (ExternalData-content-link-newline-attribute)
I302da0d4	DOC: AbsoluteValueDifferenceImageFilter code review.	Matthew McCormick	ITK	master (AbsoluteValueDifferenceImageFilter_code)
I020a6911	DOC: Code review of IntensityMath	Peter Lamb	ITK	master (IntensityMathReview)
I8de7c198	ENH: Added methods to make boundary conditions usable in more places.	Cory Quammen	ITK	master (BoundaryConditionEnhancements)
I3e3af599	ENH: avoid huge number of duplicated includes in wrapping	Gaëtan Lehmann	ITK	master (WrappingAvoidDuplicatedIncludes)
I88073e99	ENH: New functionality to read and write csv files.	Shreyas Seshamani	ITK	master (csvfileIO)
Id9e09219	BUG: 10252 - MemoryProbesCollectorBase reports zero.	kent williams	ITK	master (AddMemoryProbesCollectorBaseTest)
I73ac7cd9	BUG: 0007455 Fix errant typedef in SpatialObjectTreeContainer	kent williams	ITK	master (AddSpatialObjectTreeTest)
I1dec8dc7	DOC: Add briefs to many classes, functors, and structs.	David Doria	ITK	master (Briefs)
I6b87f745	BUG: dash in the module names make them non suitable for wrapping	Gaëtan Lehmann	ITK	master (ReplaceDashByUnderscoreInModuleName)
Id924c2d2	WIP: Point set metrics for registration refactoring.	Nick Tustison	ITK	master (PointSetMetrics)
I5c8d06d1	WIP: Starting of refactoring the streaming base classes	Bradley Lowekamp	ITK	master (GerritStreamingRefactoring)
I814be922	ENH: Added 2 new parts to the pipeline to verify inputs before execution	Bradley Lowekamp	ITK	master (VerifyInputs)
Ib00f1048	BUG: --compareToleranceRadius failures	Hans J. Johnson	ITK	master (toleranceRadiusBug)
Ibec9e9b1	ENH: Changes the installation directory for WrapITK bindings	Ashish Sharma	ITK	master (wrapitk-install-changes)
I7d14bbfd	ENH: New filter to create LabelMap when labels != standard native types	Arnaud Gelas	ITK	master (DestructiveLabelFilter)
I79013671	COMP: root of source and binary dir of ITK should not be too deep.	Alex Gouaillard	ITK	master (PathLengthSafeGuardForWindows)
I1aa5c1ac	DOC: Add descriptions of attributes.	David Doria	ITK	master (NOjectsDOC)
Iea3aa1ec	BUG: TestImportImageContainer could crash on reallocation #12239	Tom Vercauteren	ITK	master (TestImportImageContainerReallocBug12239)

http://review.source.kitware.com/#change/98

All My Admin

Open Merged Abandoned

Change-Id: **1b57269f3** Remove redundant header include

Change-Id: 1b57269f3fa67c6f0a5110ee0721e776157f1957e

Owner: [Hans J. Johnson](#)

Project: [ITK](#)

Branch: [master](#)

Topic: [RemoveRedundantHeaderIncludes](#)

Uploaded: Sep 26, 2010 2:15 PM

Updated: Oct 8, 2010 6:43 AM

Status: Review in Progress

Remove redundant header include

This patch uses the itkImageBase.h because of the script to identify redundant header files.

For example you do not need to include itkImageBase.h because of the streamlining the path of the include files.

Added missing header file needed for the test.

In order to avoid a header dependency, I replaced itkExceptionObject.h with itkExceptionObject.h.

Permalink

Reviewer	Verified	Code Review
Hans J. Johnson	<input checked="" type="checkbox"/>	
Bill Lorensen		<input checked="" type="checkbox"/> Do not submit
Luis Ibanez	<input checked="" type="checkbox"/>	

- Need Verified +1 (Verified)
- Need Code Review +2 (Looks good to me, approved)

Name or Email

Dependencies

Patch Set 1: [b57269f3fa67c6f0a5110ee0721e776157f1957e](#) ([gitweb](#))

Patch Set 2: [014646eab52eaccd67efbe5edffbe25f84962fad](#) ([gitweb](#))

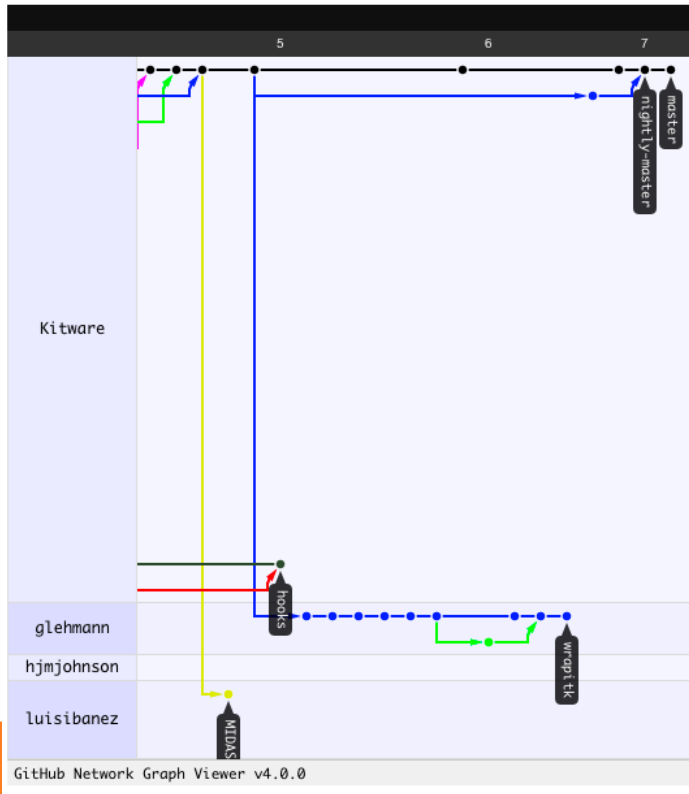
Author: [Hans J. Johnson](#) <hans-johnson@uiowa.edu> Sep 25, 2010 6:09 PM

Committer: [Hans J. Johnson](#) <hans-johnson@uiowa.edu> Oct 7, 2010 10:34 PM

Download: [checkout](#) | [pull](#) | [cherry-pick](#) | [patch](#) | [Anonymous HTTP](#) | [SSH](#) | [HTTP](#)

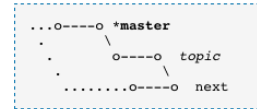
[git pull http://review.source.kitware.com/p/ITK refs/changes/98/98,2](#)

HOW? GIT



Update **master** to get the latest work by others. We will merge the topic into it.

```
$ git checkout master
```



```
$ git pull
```

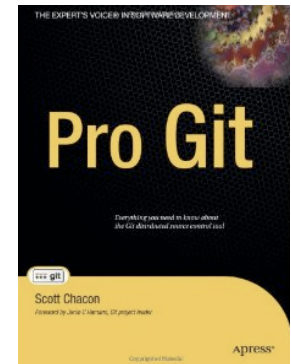


Merge the **topic** and test it.

VIEW BRANCH Create Branch

Subject

- GerritPrimer master origin/HEAD origin/master Merge branch 'release'
- origin/release Merge topic 'ScaleVersor3DTransform' into release
- KWSys Nightly Date Stamp
- Merge topic 'ScaleVersor3DTransform'
- Fixed test after the ScaleVersor3DTransform.
- Merge branch 'ScaleVersor3DTransform' into release
- Merge topic 'tab-in-indent' into release
- Merge branch 'bug_dicom_warn_preamble_missing' into release
- Merge branch 'issue-11105-TriangleMeshToBinaryImageFilter-exception' into release
- Merge branch 'BUG0011098' into release
- origin/nightly-master COMP: fix warning about uninitialized variable.



WHAT?

- **Organization**
 - Modernization (Third Party)
 - Modularization
 - Simplification
 - Compile time Behavior
 - Code duplication
 - Consistency

MODERNIZATION

- **Many third party dependencies have been updated**
 - GDCM 2 (DICOM IO)
 - NIFTI
 - VNL
 - OpenJPEG
 - HDF5 (Addition, still being flushed out)

MODULARIZATION

Created an ontological hierarchy

- Encapsulate conceptual units
- Decouple functional units from rest of toolkit

Fine grained inclusion of functions

- Improve code coverage
- `ITK_LIBRARIES`

SIMPLIFICATION

- **Compile time Behavior**

- ITK_USE_DEPRECATED_LEVELSET_INTERPOLATION, ITK_USE_DEPRECATED_FAST_MARCHING, ITK_USE_CENTERED_PIXEL_COORDINATES_CONSISTENTLY, USE_REVIEW_STATISTICS, ITKIO_DEPRECATED_METADATA_ORIENTATION, ITK_IMAGE_BEHAVES_AS_ORIENTED_IMAGE, USE_OPTIMIZED_REGISTRATION
- Removed SGI, MSVS 6, Old SUN, cygwin #ifdef code
- Removed all “Legacy” code

- **Decouple Test Data from source**

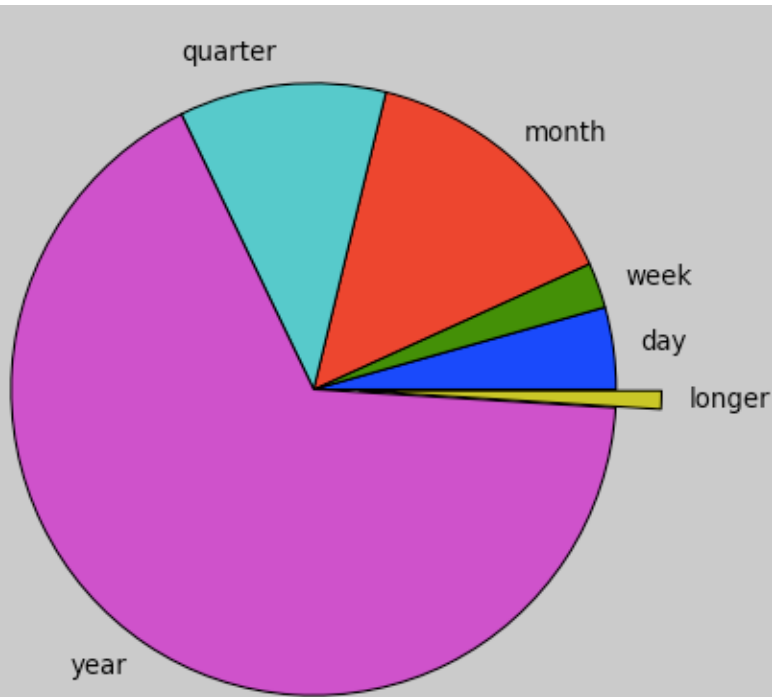
CONSISTENCY

- **Code API and execution**
 - Mask processing in filters
 - Renaming for consistency
- **Code Reuse**
 - Create abstract base classes for common functionality

MAJOR CHANGES

- **Wrapping of ITK Proper**
 - Improve end-user experience
 - Improve long term maintenance
 - Improve Documentation
- **FEM**
 - Improve ITK compatibility
 - Improve coverage
- **Registration**
 - Conceptual consistency
 - Expanded functionality
- **DICOM**
 - Improved Support

DAYS INACTIVE REPORT



Who	How	mean	days	inactive
Arnaud Gelas	: 2	: 9		
kentwilliams	: 11	: 16		
Hans Johnson	: 7	: 65		
Nick Tustison	: 2	: 94		
Jim Miller	: 11	: 97		
Brad King	: 2	: 121		
Tom Vercauteren	: 1	: 138		
Marcus D. Hanwell	: 1	: 139		
Vince Magnotta	: 6	: 155		
Gaetan Lehmann	: 12	: 157		
Ziv Yaniv	: 2	: 169		
Luis Ibanez	: 51	: 174		
Bill Lorensen	: 6	: 177		
Gabe Hart	: 13	: 178		
xiaoxiao	: 17	: 179		
Bradley Lowekamp	: 13	: 185		
Stephen Aylward	: 7	: 189		
Bill Hoffman	: 1	: 202		
alexandre gouaillard	: 8	: 207		
Ivan Macia	: 2	: 211		
brian avants	: 19	: 211		

DISCUSSION POINTS

Unified logins and Integrated systems

- Git
- Gerrit
- Wiki
- Mantis
- ?Midas?

GitHub

NITRC

NAMIC (Sandbox)

NAMIC (Wiki)

Slicer3/4 (Wiki)

Slicer3/4 (syn)

These tools need to be less distinct