

Why the LSST will change astrophysics forever

Arfon Smith
@arfon



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might

Why the LSST ~~will~~ change
astrophysics forever

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should

Why the LSST ~~will~~ change
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will hopefully

Why the LSST ~~will~~ change
astrophysics forever

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@arfon



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What is a *GitHub*?

git --distributed-even-if-your-workflow-isnt

Search entire site...

Git is a **free and open source** distributed version control system designed to handle everything from small to very large projects with speed and efficiency.

Git is **easy to learn** and has a **tiny footprint with lightning fast performance**. It outclasses SCM tools like Subversion, CVS, Perforce, and ClearCase with features like **cheap local branching**, convenient **staging areas**, and **multiple workflows**.



Learn Git in your browser for free with **Try Git**.



About

The advantages of Git compared to other source control systems.



Documentation

Command reference pages, Pro Git book content, videos and other material.



Downloads

GUI clients and binary releases for all major platforms.



Community

Get involved! Mailing list, chat, development and more.



Pro Git by Scott Chacon is available to [read online for free](#). Dead tree versions are available on [Amazon.com](#).



Mac GUIs



Tarballs



Windows Build



Source Code

files



2-13-AAHC

.txt

ckemails

-  ResearchProposal_final_AMS_update.docx
-  ResearchProposal_final_CJL_edits.docx
-  ResearchProposal_final_LFW_changes.docx
-  ResearchProposal_final.1.docx
-  ResearchProposal_final.2.docx
-  ResearchProposal_final.3.docx
-  ResearchProposal_final.docx
-  ResearchProposal_really_final.docx
-  ResearchProposal_really_really_final.docx
-  ResearchProposal_submitted.docx

PUBLIC HoTT / book

Watch 78 Star 630 Fork 97

A textbook on informal homotopy type theory

3,032 commits 1 branch 2 releases 47 contributors

branch: master book / +

Mark Errata (auto)		
Travis-CI Bot authored 9 days ago	latest commit a19a64dcef	
coq_introduction	Updated Reading_HoTT_in_Coq for Coq 8.4pl3	3 months ago
cover	Fix file permissions	10 months ago
etc	Try to fix the auto-errata-pusher	4 months ago
other	index-helper: exclude \indexdefs containing backslashes	11 months ago
.gitattributes	Try to prevent line ending problems	a year ago
.gitignore	add errata.pdf to .gitignore	5 months ago
.travis.yml	add Mike's OAuth key to .travis.yml	4 months ago
CONTRIBUTING.md	use separate branches for pull requests	4 months ago
CONVENTIONS.txt	Specified which characters are ok in labels	a year ago
GIT_CHEATSHEET.txt	Changed instructions that tell people to use `git add --all`,	a year ago
Makefile	fix the sed command in the makefile	4 months ago
README.md	Fixed wee typo in README	10 months ago
back.tex	omit header on blank versos, fix #269	10 months ago
basics.tex	close #638	a month ago
blurb.tex	justify back cover	10 months ago

Code

Issues 29

Pull Requests 6

Wiki

Pulse

Graphs

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SSH clone URL
git@github.com:Ho1

You can clone with HTTPS, SSH, or Subversion.

Clone in Desktop

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branch: master book / Commits

Dec 10, 2013

 Merge pull request #572 from mikeshulman/lemma6.5.4 ... 6e7986e22a +
andrejbauer authored 11 hours ago Browse code →

Dec 09, 2013

 remove unneeded \sm's c62af0ffb2 +
mikeshulman authored 13 hours ago Browse code →

 a bit more explanation f562d926ba +
mikeshulman authored 13 hours ago Browse code →

 Further reworked proof of Lemma 6.5.4 a8e2d37c43 +
mikeshulman authored 13 hours ago Browse code →

 Reworked proof of Lemma 6.5.4. 8f54d16623 +
unknown authored 19 hours ago Browse code →

Dec 06, 2013

 Merge pull request #568 from mikeshulman/lieover ... 5abea48c9e +
andrejbauer authored 4 days ago Browse code →

Dec 04, 2013

 Merge branch 'master' of github.com:HoTT/book 0d51f67b3a +
mikeshulman authored 6 days ago Browse code →

 fix typo, close #570 5f997d805d +
mikeshulman authored 6 days ago Browse code →

 Merge pull request #571 from marcbezem/master ... 4bb03e33c7 +
mikeshulman authored 6 days ago Browse code →

 added a label to Lemma 2.10.1 in book/basics.tex for (automatic) incl... a9d29f9645 +
marcbezem authored 6 days ago Browse code →

Navigation sidebar with icons for: code diff, info, search, issues, pull requests, and other repository actions.

explain some acronyms, close #404

[Browse code](#)

master

 mikeshulman authored 11 days ago

1 parent [04bdfbb](#) commit [6cc02ef392d06ce2fffd02c6c8b2f639075eaf9](#)

Showing 3 changed files with 6 additions and 3 deletions.

[Show Diff Stats](#)

2 basics.tex [View](#)

```
@@ -1706,7 +1706,7 @@ \section{Universes and the univalence axiom}
1706 1706 %
1707 1707 \symlabel{ua}
1708 1708 \begin{itemize}
1709 -\item An introduction rule for  $\{\text{id}[A]{B}\}$ ,
1709 +\item An introduction rule for  $\{\text{id}[A]{B}\}$ , denoted  $\text{ua}$  for "univalence axiom":
1710 1710 \[
1711 1711 \text{ua} : (\text{eqv } A \ B) \ \text{to} \ (\text{id}[A]{B}).
1712 1712 \]
```

3 formal.tex [View](#)

```
@@ -698,7 +698,8 @@ \subsection{Dependent pair types (\text{orpdfstring}{\Sigma}{\Sigma}-types)}
698 698 \index{type!product}%
699 699
700 700 In \autoref{sec:sigma-types}, we needed  $\text{to}$  and  $\text{prdsym}$  types in order to
701 -define the introduction and elimination rules for  $\text{smsym}$ ; as with  $\text{prdsym}$ , contexts allow us to state the rules f
701 +define the introduction and elimination rules for  $\text{smsym}$ ; as with  $\text{prdsym}$ , contexts allow us to state the rules f
702 +Recall that the elimination rule for a positive type such as  $\Sigma$  is called induction and denoted by  $\text{ind}$ 
702 703 %
703 704 \begin{mathparpagebreakable}
704 705 \def\premise{\oftp{\Gamma}{A}{\UU_i} \ \text{and} \ \oftp{\Gamma, \text{tmp } x}{B}{\UU_i}}
```

4 preliminaries.tex [View](#)

Navigation icons: code editor, search, home, etc.

PUBLIC



kogakure / .gitignore

Last active 6 minutes ago



Edit

Delete

Star 66

Fork 39

Git: .gitignore file for LaTeX projects

Gist Detail

Revisions 2

Stars 66

Forks 39

Download Gist

Clone this gist
`https://gist.github.com`

Embed this gist
`<script src="https:.`

Link to this gist
`https://gist.github.com`

```
.gitignore
1 *.aux
2 *.glo
3 *.idx
4 *.log
5 *.toc
6 *.ist
7 *.acn
8 *.acr
9 *.alg
10 *.bbl
11 *.blg
12 *.dvi
13 *.glg
14 *.gls
15 *.ilg
16 *.ind
17 *.lof
18 *.lot
19 *.maf
20 *.mtc
21 *.mtc1
22 *.out
23 *.synctex.gz
```

cflewis commented 4 years ago
Excellent! Thanks for this!
I might consider adding *.synctex.gz!

kogakure commented 4 years ago



This repository Search or type a command

Explore Gist Blog Help



arfon



PUBLIC

cms-sw / cmssw

Watch 32

Star 86

Fork 696

CMS Offline Software <http://cms-sw.github.io/cmssw>

132,155 commits

25 branches

4,320 releases

187 contributors

branch: CMSSW_7_1_X cmssw

Merge pull request #3585 from gartung/clang-34-comp

ktf authored 2 hours ago

latest commit 1b32444b35

Alignment	Merge pull request #3447 from dr4kan/migration_TT_AT_ver3	2 days ago
AnalysisAlgos	compiles, CosmicMuon and ReferenceTrajectory broken	a month ago
AnalysisDataFormats	Need to declare a member variable transient for AssociationMaps	4 months ago
CalibCalorimetry	Fix clang issues.	a day ago
CalibFormats	Remove incorrect reflex protection from HcalDbService	2 months ago
CalibMuon	replace DTRecoUncertainty::type with version	2 months ago
CalibTracker	merged with head by Matti and Andreas	15 days ago
Calibration	Actually use calculated value	a day ago
CaloOnlineTools	migration of TrackDetectorAssociator	7 days ago
CommonTools	Convert modules used in product to stream typed modules	8 days ago
CondCore	Merge pull request #3371 from Dr15Jones/makePoolDBOutputServiceCom...	13 days ago
CondFormats	Merge pull request #3561 from vadler/71X-moveCondFormatsJetMETObjec...	7 hours ago
CondTools	Drop binary files.	a day ago
Configuration	Merge pull request #3587 from franzoni/from-CMSSW_7_1_0_pre7_postLS...	5 hours ago
DPGAnalysis	Merge pull request #3344 from VinInn/noTTRHMerged2	7 days ago

Code

Issues 70

Pull Requests 57

Wiki

Pulse

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SSH clone URL

git@github.com:cms

You can clone with [HTTPS](#), [SSH](#), or [Subversion](#).

Clone in Desktop

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This repository Search or type a command

Explore Gist Blog Help

arfon +

PUBLIC cms-sw / cmssw

Watch 32 Star 86 Fork 696

April 23 2014 - April 30 2014

Period: 1 week

Overview

160 Active Pull Requests

6 Active Issues

121

Merged Pull Requests

39

Proposed Pull Requests

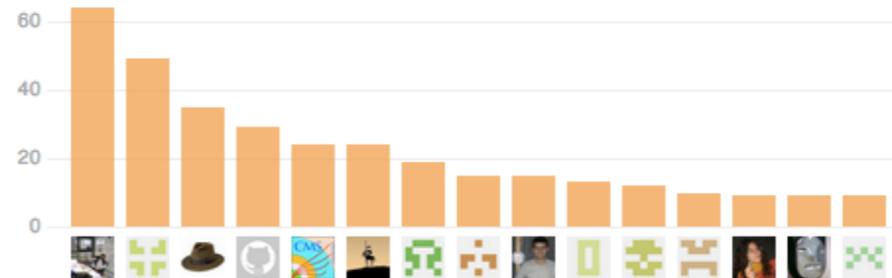
5

Closed Issues

1

New Issue

59 authors have pushed 468 commits to all branches, excluding merges. On CMSSW_7_1_X, 854 files have changed and there have been 18,230 additions and 19,842 deletions.



3 Releases published by 2 people

Published CMSSW_7_0_0_XROOTD2 5 days ago

Published CMSSW_6_2_0_SLHC12 2 days ago

Published CMSSW_7_1_0_pre7 2 days ago

121 Pull Requests merged by 51 people

Merged #3597 FWCore/PluginManager: gCINTMutex -> gInterpreterMutex an hour ago

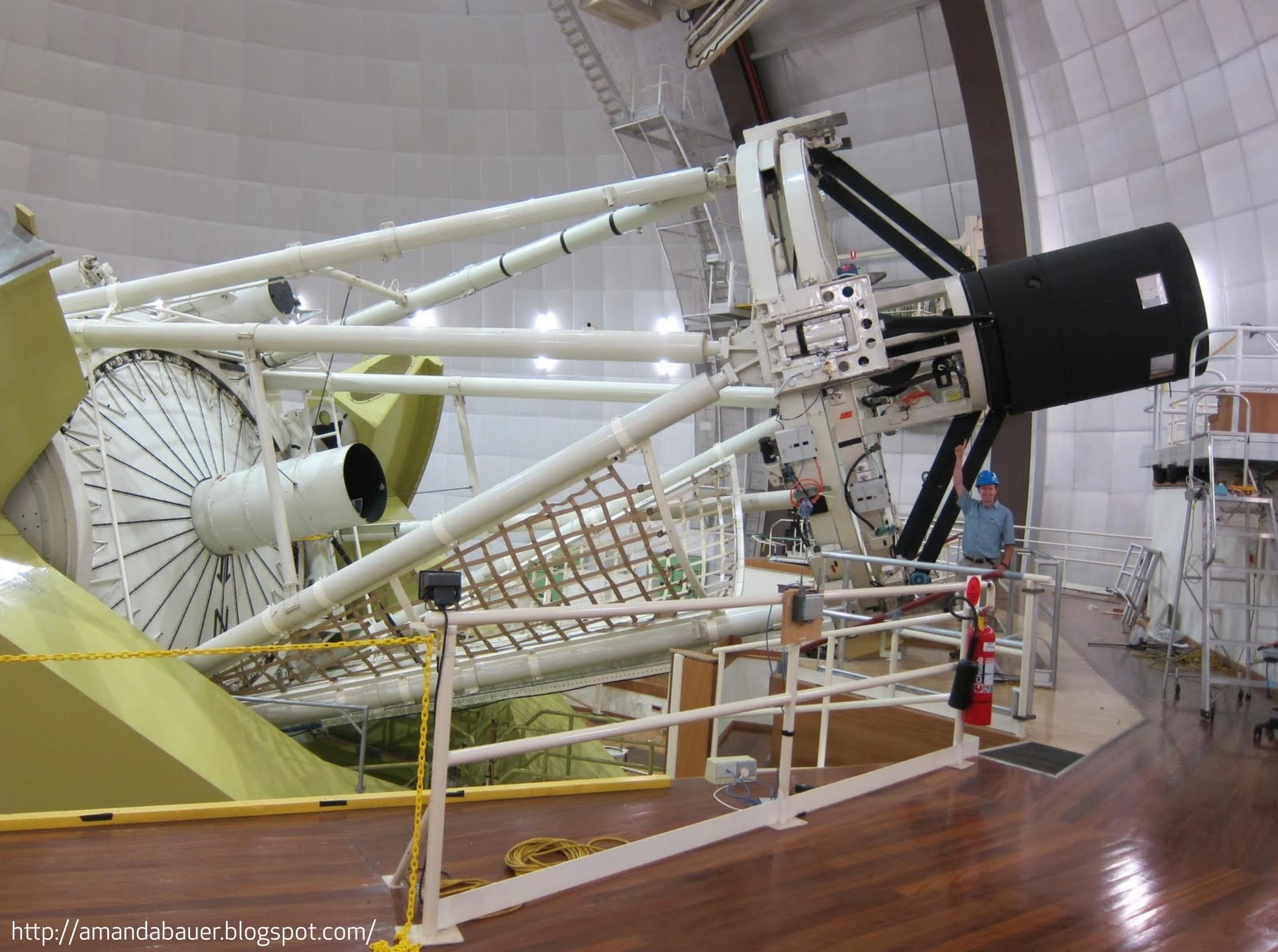
Merged #3585 fixes to work with clang 3.4 and clang 3.3 2 hours ago

Astrophysics for non- astronomers











MOVE AT ANY TIME

MARTIN SYSTEM

Viewpoint 7705

Viewpoint 7705

Viewpoint 7705

Keyboard

UNIVERSAL TIME

UNIVERSAL TIME

WIND/TEMPERATURE

PRESS READY FIRST BEFORE OFF

PRESS READY FIRST BEFORE OFF

MAIN SWITCHES

DECL READOUT

RA/HA READOUT

ZONE CONTROL

TOP END POWER

PRIMARY MIRROR COVER CONTROL

FOCUS CONTROL

RATE GENERATOR CONTROL

DECL VELOCITY CONTROL

H.A VELOCITY CONTROL

COM CONTROLS

R. Fisher
0 →

Switch off at end of night

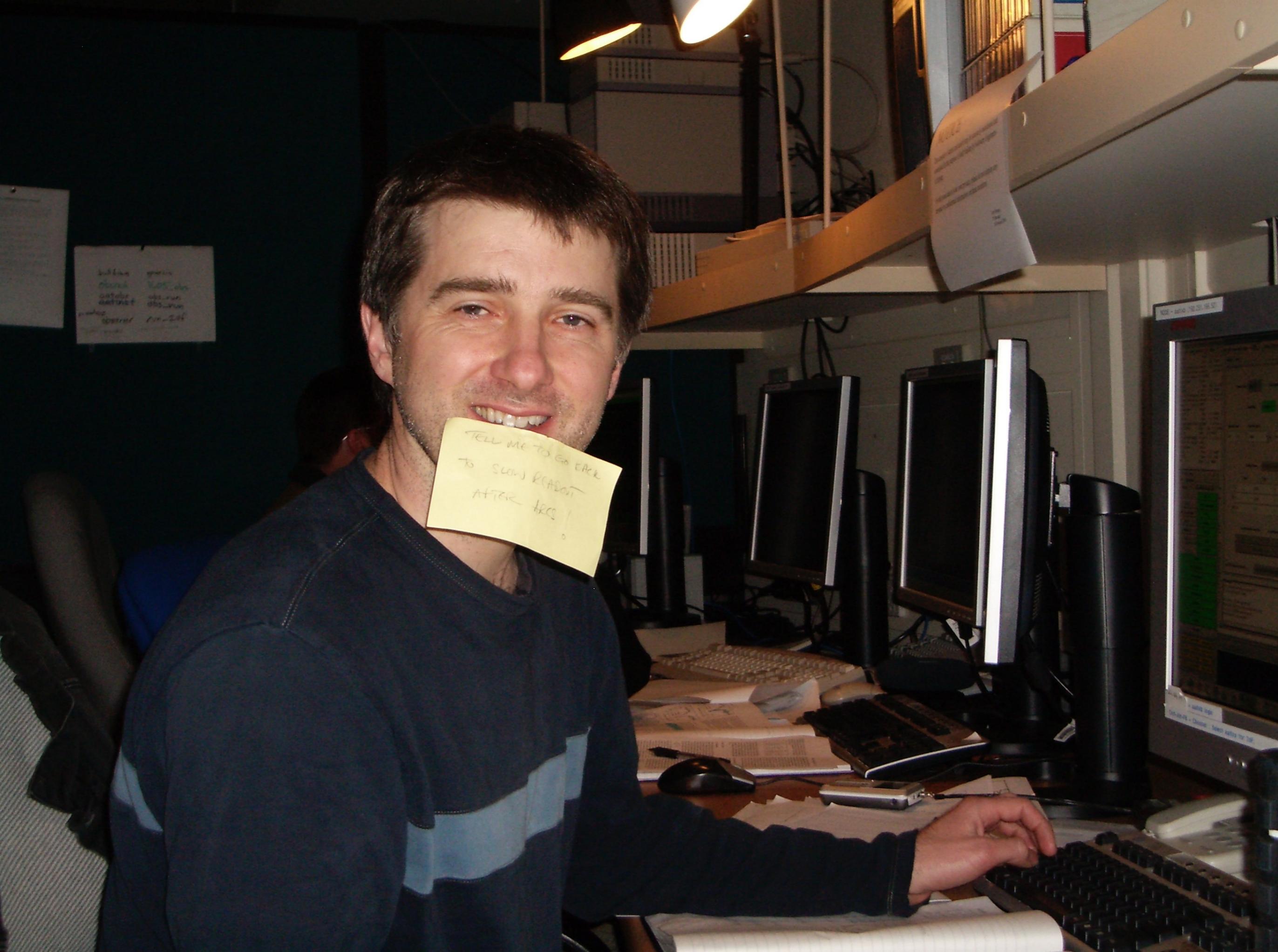
CTC	LAST
Channel RA: 00:00:00	Dec: 00:00:00
Channel DEC: 00:00:00	Dec: 00:00:00
Channel RA: 00:00:00	Dec: 00:00:00
Channel DEC: 00:00:00	Dec: 00:00:00
Channel RA: 00:00:00	Dec: 00:00:00
Channel DEC: 00:00:00	Dec: 00:00:00
Channel RA: 00:00:00	Dec: 00:00:00
Channel DEC: 00:00:00	Dec: 00:00:00

MOTORISED LINE CONTROL
CAMERA CONTROL BY POLAR SYSTEM

Keyboard

Mouse

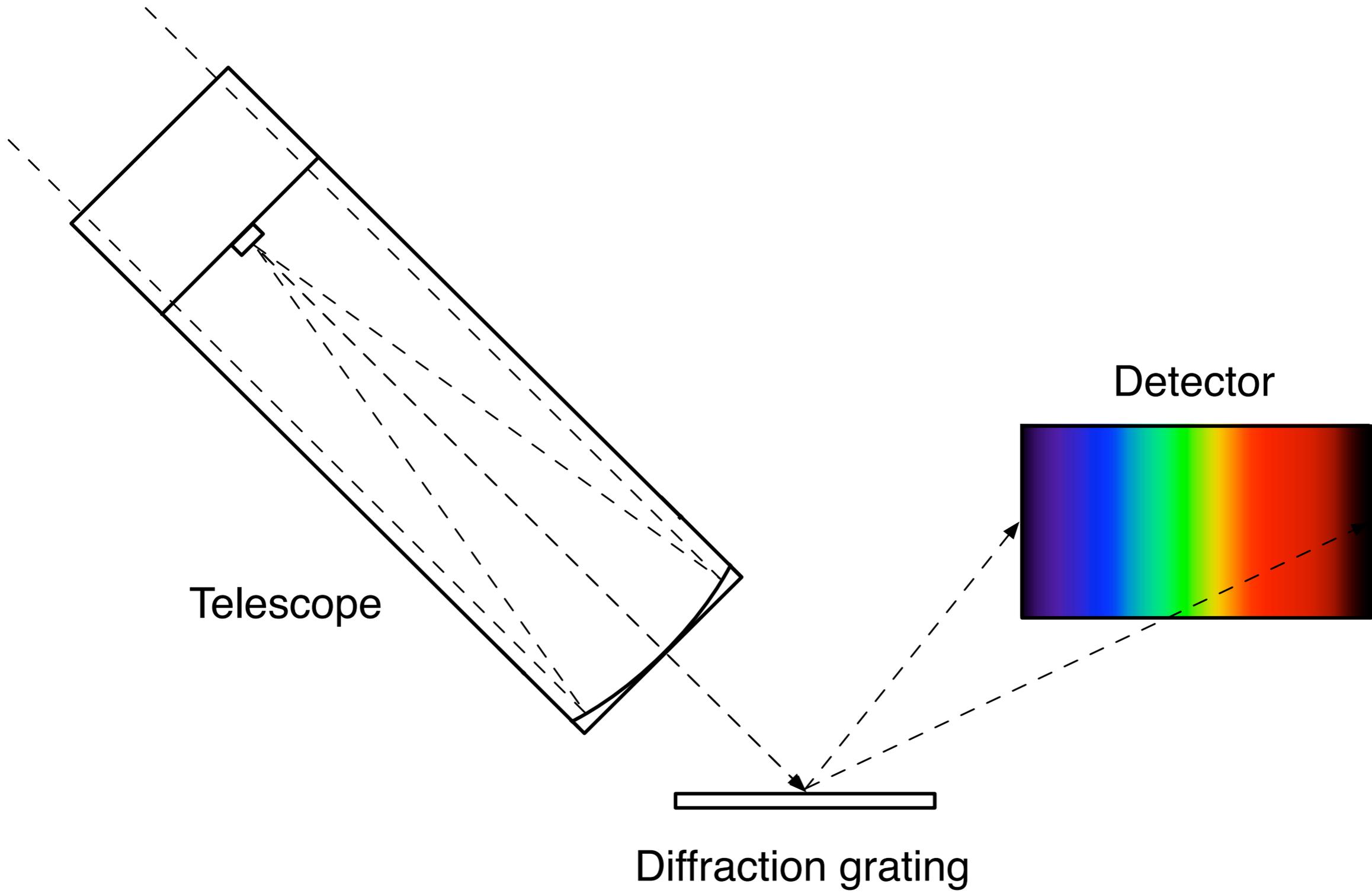
Keyboard

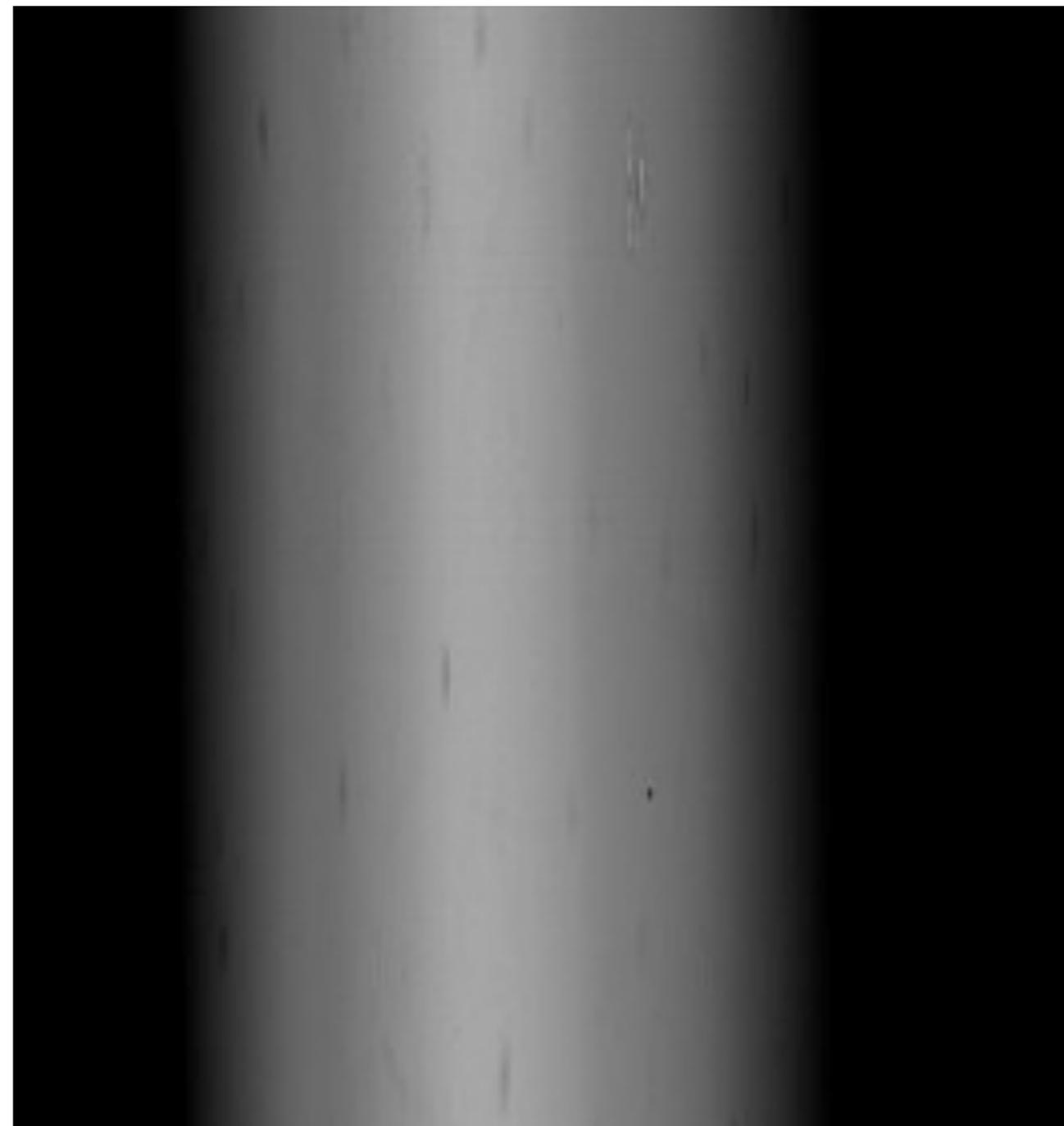


TELL ME TO GO BACK
TO SLOW REASON
AFTER THIS!

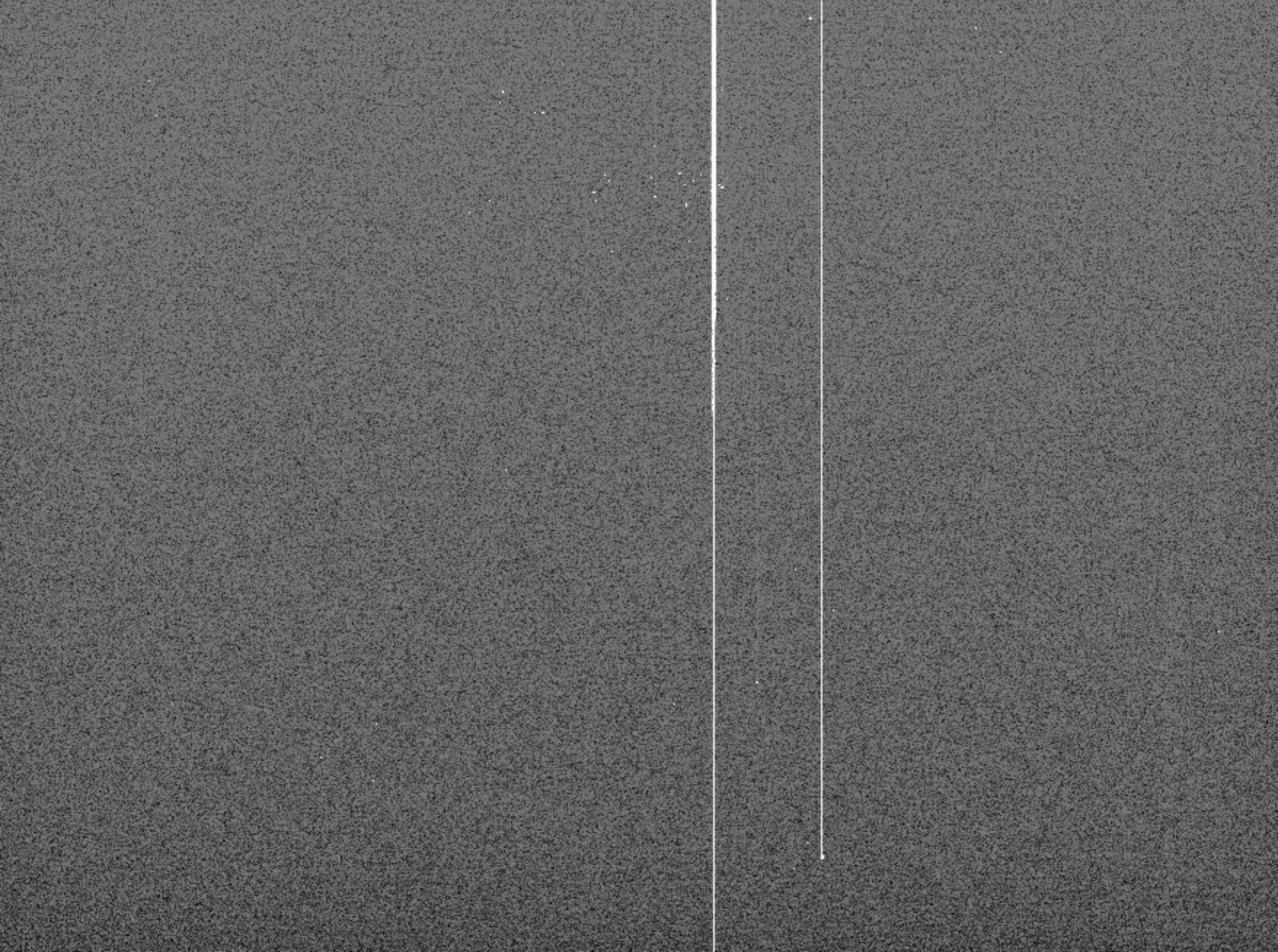
buildin
obscure
outlets
control
server

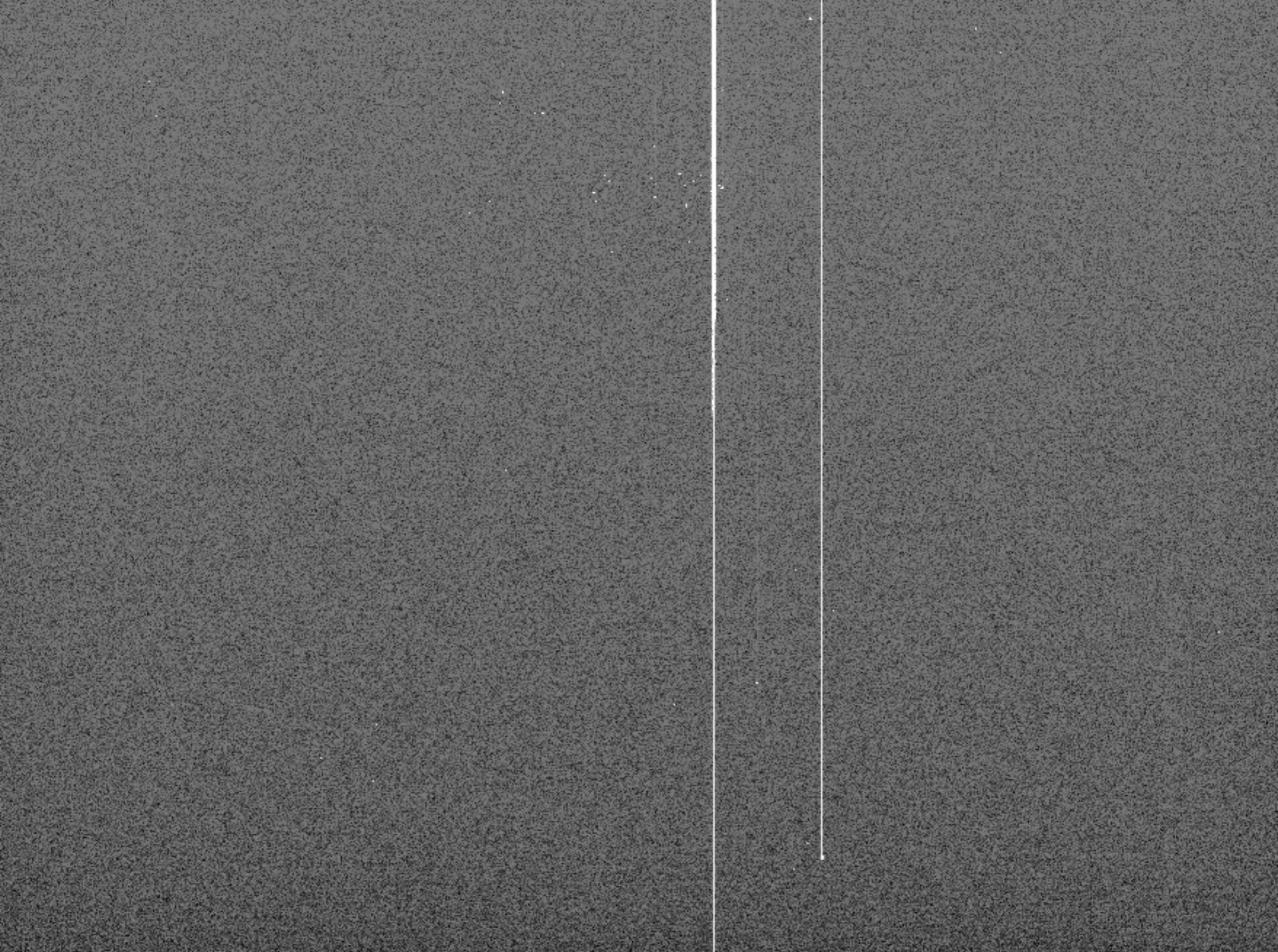
specin
VOS, also
etc. run
etc. run
etc. run
etc. run

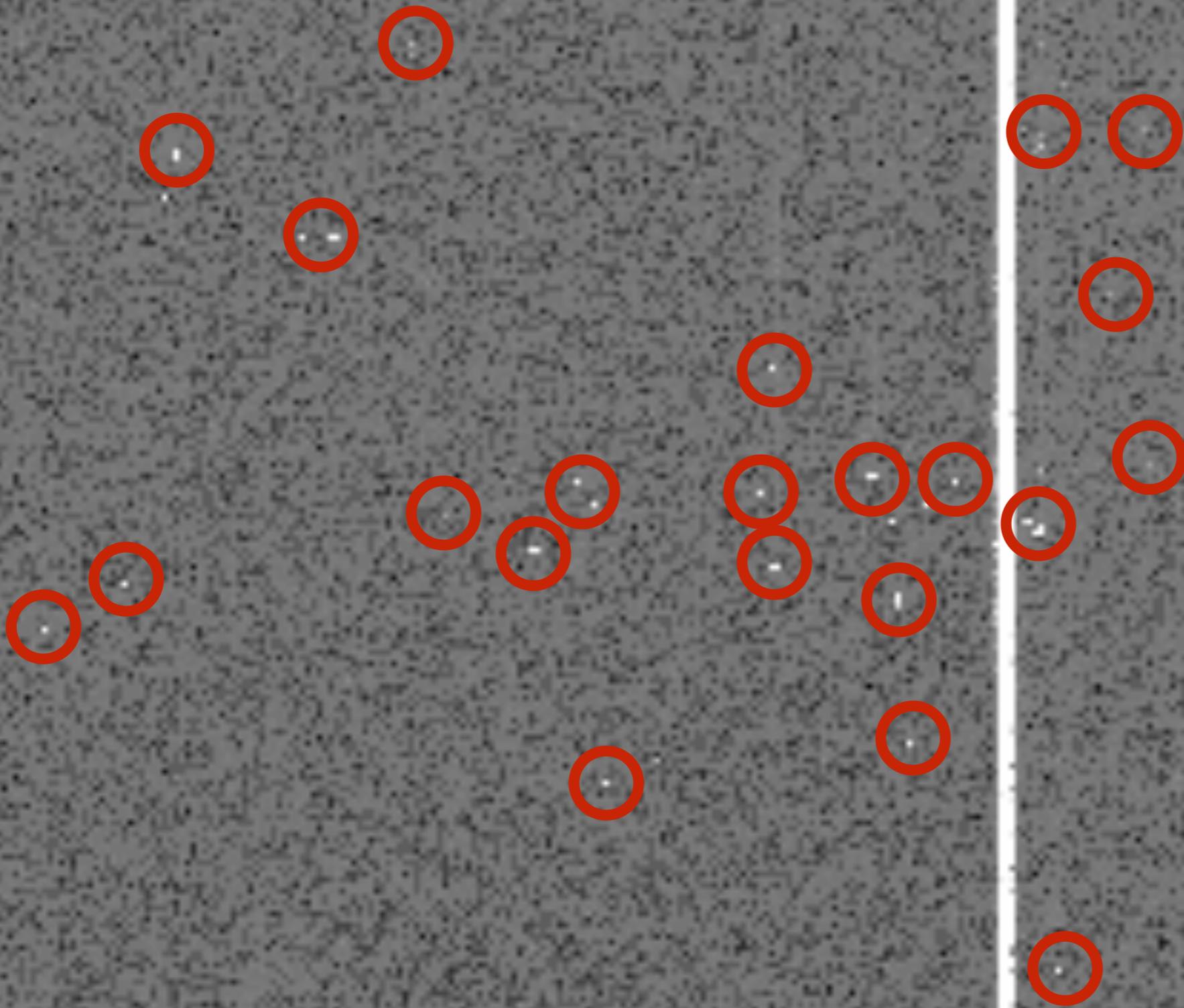












```
> cat bad_pix_mask.txt
```

```
130 130 1 2048
```

```
189 189 258 258
```

```
480 562 378 378
```

```
493 521 390 397
```

```
851 851 247 274
```

```
319 319 304 580
```

```
493 511 610 636
```

```
188 188 228 228
```

Wasteful

2 days work

3 observing runs/week

52 weeks in year

15 year detector lifetime

$2 * 3 * 52 * 15 = 4680$ days (13 years)

Wasteful... but the **norm**

2 days work

3 observing runs/week

52 weeks in year

15 year detector lifetime

$2*3*52*15 = 4680$ days (13 years)

How is the **Open Source**
community doing it?

Open Source vs Open Collaborations

Open Source: *the right to
modify, not the right to
contribute.*

Open Collaborations: a *highly collaborative development process and are receptive to contributions of code, documentation, discussion, etc from anyone who shows competent interest.*

Open Collaborations: a highly collaborative development process and a receptivity to contributions of code, documentation, discussion, etc from anyone who shows competent interest.

THIS

How is the **Open Source**
community doing it?

Culture of reuse

Low friction collaboration

How do **4000** people
work together?

The pull request

PUBLIC Homebrew / homebrew Watch 580 Star 16,698 Fork 8,378

The missing package manager for OS X. <http://brew.sh>

10,000+ commits 3 branches 0 releases 3,693 contributors

branch: master homebrew / +

ruby-build 20140408		
sferik authored an hour ago latest commit b30f533d8e		
→ mikemcquaid committed an hour ago		
Library	ruby-build 20140408	an hour ago
bin	Unset GEM_HOME and GEM_PATH before running brew.rb	a month ago
share	Document behavior of `deps` and `uses` when given multiple arguments	19 hours ago
.gitignore	CODEOFCONDUCT: add Homebrew CoC, diversity doc.	a month ago
CODEOFCONDUCT.md	CODEOFCONDUCT: add Homebrew CoC, diversity doc.	a month ago
CONTRIBUTING.md	CODEOFCONDUCT: add Homebrew CoC, diversity doc.	a month ago
README.md	Use SVG Gittip badge in README	2 days ago
SUPPORTERS.md	SUPPORTERS: remove link on user request.	a month ago

README.md

Homebrew

Features, usage and installation instructions are [summarized on the homepage](#).

<> Code

Issues 361

Pull Requests 164

Wiki

Pulse

Graphs

Network

SSH clone URL

git@github.com:Hon

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Clone in Desktop

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 Watch ▼ 580

 Star 16,698

 Fork 8,378

 3,693 contributors

latest commit `b30f533d8e` 

 Code

 Issues 361

 Pull Requests 164

 Wiki

 Pulse

PUBLIC Homebrew / homebrew

Watch 580 Star 16,698 Fork 8,378

The missing package manager for OS

10,000+ commits

branch: master

- ruby-build 20140408
- sferik authored an hour ago
→ mikemcquaid committed an hour ago
- Library ruby-build
- bin Unset GE
- share Document
- .gitignore CODEOF
- CODEOFCONDUCT.md CODEOF
- CONTRIBUTING.md CODEOF
- README.md Use SVG
- SUPPORTERS.md SUPPOR

README.md

Homebrew

Features, usage and installation ins

Where should we fork this repository?

 @arfon	 @github	 @github-tra...
 @github-off...	 @zooniverse	 @mozillasc...
 @atom	 @government	 @education
 @CitizenSci...	 @githubtea...	 @StartupIn...

Code

Issues 361

Pull Requests 164

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This repository

Search or type a command

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arfon



PUBLIC



arfon / homebrew

forked from Homebrew/homebrew

Watch 0

Star 0

Forking Homebrew/homebrew

We're forking a repository just for you. It should only take a few seconds. [Refresh at will](#)



Code

Pull Requests 0

Wiki

Pulse

Graphs

Network

Settings



PUBLIC **arfon / homebrew** forked from Homebrew/homebrew Watch 0 Star 0 Fork 8,379

The missing package manager for OS X. <http://brew.sh> — Edit

10,000+ commits 3 branches 0 releases 3,693 contributors

branch: master homebrew / +

Pull Request Compare		
ruby-build 20140408 ...		
sferik authored an hour ago		latest commit b30f533d8e
→ mikemcquaid committed an hour ago		
Library	ruby-build 20140408	an hour ago
bin	Unset GEM_HOME and GEM_PATH before running brew.rb	a month ago
share	Document behavior of `deps` and `uses` when given multiple arguments	19 hours ago
.gitignore	CODEOFCONDUCT: add Homebrew CoC, diversity doc.	a month ago
CODEOFCONDUCT.md	CODEOFCONDUCT: add Homebrew CoC, diversity doc.	a month ago
CONTRIBUTING.md	CODEOFCONDUCT: add Homebrew CoC, diversity doc.	a month ago
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SUPPORTERS.md	SUPPORTERS: remove link on user request.	a month ago

README.md

Homebrew

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PUBLIC  **arfon / homebrew**
forked from [Homebrew/homebrew](#)

The missing package manager for OS X. <http://brew.sh> — [Edit](#)

 **10,000+** commits  **3** branches  **0** releases

 branch: **master** ▾ **homebrew** / 

ruby-build 20140408 ...

 **sferik** authored an hour ago
→ **mikemcquaid** committed an hour ago

 **Library** ruby-build 20140408

 **bin** Unset GEM_HOME and GEM_PATH before running brew.



This repository

Search or type a command

Explore Gist Blog Help



arfon



PUBLIC



Homebrew / homebrew

Watch 599

Star 17,079

Fork 8,544

Harbour 3.0.0 (new formula). #28609

New Issue



enderson wants to merge 1 commit into Homebrew:master from enderson:harbour

Conversation 70

Commits 1

Files changed 1

+60 -0



enderson commented 8 days ago

Harbour is the free software implementation of a multi-platform, multi-threading, object-oriented, scriptable programming language, backward compatible with Clipper/xBase. Harbour consists of a compiler and runtime libraries with multiple UI and database backends, its own make system and a large collection of libraries and interfaces to many popular APIs.

Harbour is a cross-platform compiler and is known to compile and run on Windows (32 & 64), GNU/Linux, OS X, Windows CE, OS/2 and MS-DOS.

<http://harbour.github.io>



vszakats commented 8 days ago

Homepage is wrong. Should be <http://harbour-project.org>



mistydemeo commented on an outdated diff 8 days ago

Show outdated diff



enderson commented 8 days ago

Labels

new formula

Milestone

No milestone

Assignee

No one assigned

Notifications

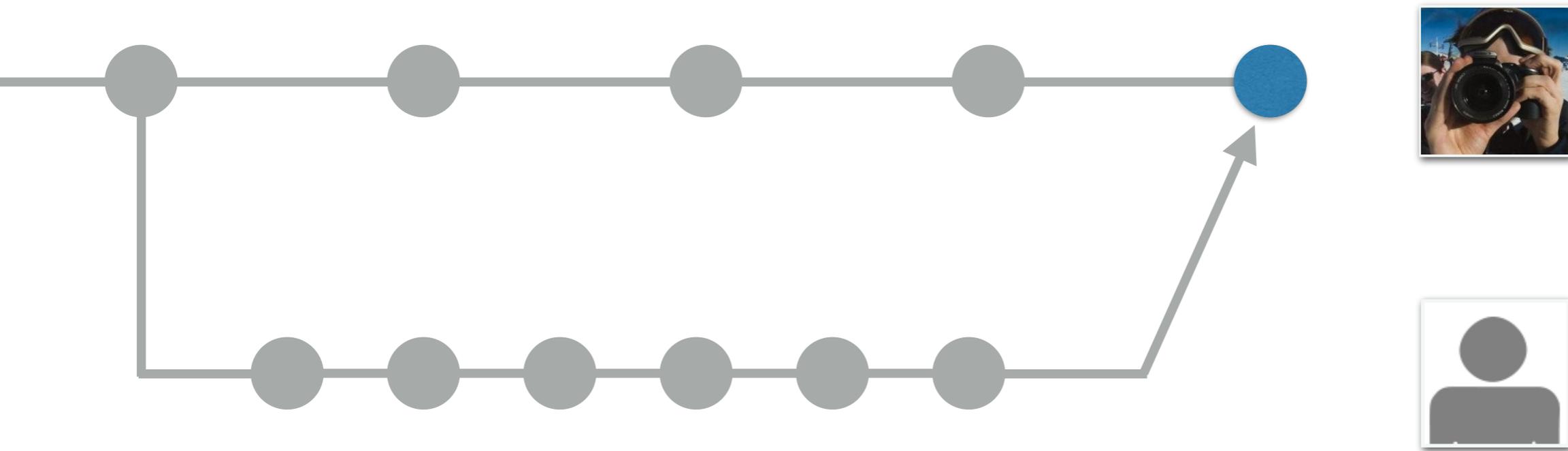
Subscribe

You'll be notified when you participate or are @mentioned in this thread.

5 participants



Code first, permission later



Merged pjhyett merged 130 commits into master from about3 over 1 year ago 1,047 #2797

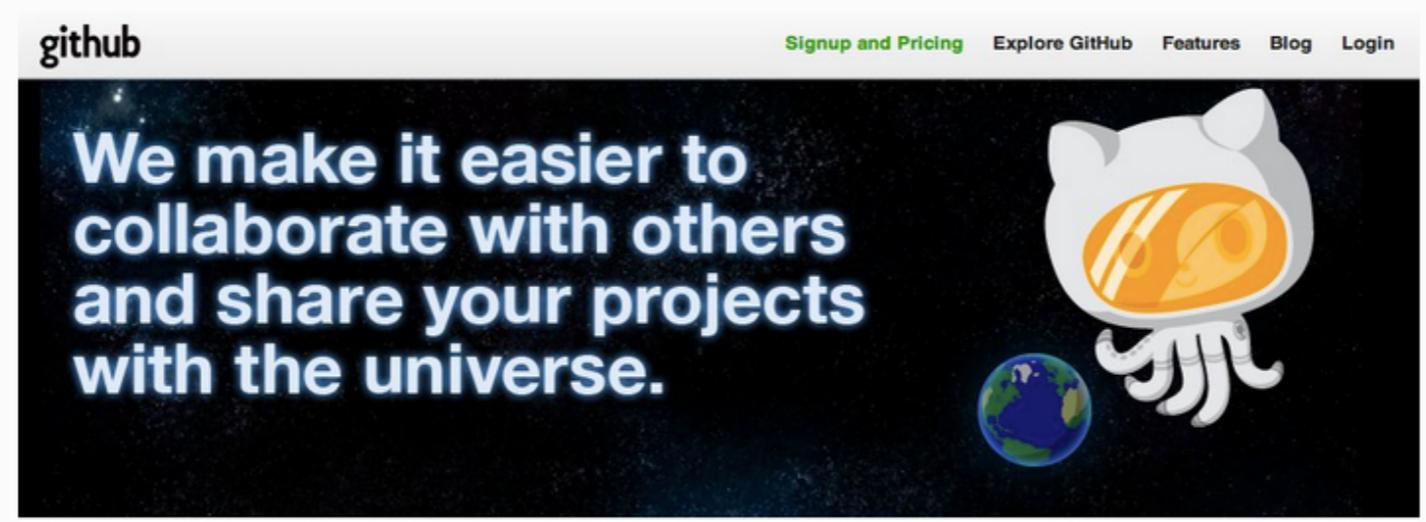
Discussion Commits 130 Files Changed 35



pjhyett opened this pull request 2 years ago **Expanded About Section** Edit

No one is assigned Milestone: About 2.0

Starting to work on <https://team.githubapp.com/projects/15>
At this point I've just applied the repo admin styling to give us some about sections and shuffled the existing content around. It's rough, but you get the idea:



About Originally founded by Chris Wanstrath, PJ Hyett and Tom Preston-Werner as a project to simplify sharing code. GitHub has grown into an application used by over a million people to store over two million code

Merged +755 additions -292 deletions



GitHub repository page for 'johndoe/awesome-project'. The page features a header with the repository name and a main content area with a large image and text. Below the main content, there are sections for 'About', 'Files', and 'Commits'. The 'Files' section shows a list of files with their names and sizes. The 'Commits' section shows a list of commits with their hashes and authors.

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 **pjhyett** Merge pull request #2797 from github/about3 ... [dbb9c9a](#)

Merged  **pjhyett** merged commit dbb9c9a into `master` from `about3` 2 years ago

Closed  **pjhyett** closed the pull request 2 years ago

 **leereilly** referenced this pull request a year ago
Pull Request #6881: Make logos a first class citizen **Merged**

 **Write** **Preview** Comments are parsed with GitHub Flavored Markdown

Leave a comment

Attach images by dragging & dropping, selecting them, or pasting from the clipboard.

 **Tip:** You can also add notes to lines changed in a file under **Diff** **Comment**

 **Mute** You are receiving notifications because you are watching this repository.



*“open source is...
reproducible by necessity”*

Fernando Perez

Better at collaborating
because they **have to be**

Open = Public?



(doesn't have to mean this)

Open (within your team,
department or institution)

Electronic

Available

Asynchronous, exposed
process

Lock-free

Low friction collaboration

What's happening in academia
today?

Collaboration around code

PUBLIC dfm / emcee Watch 13 Star 100 Fork 64

The Python ensemble sampling toolkit for affine-invariant MCMC <http://dan.iel.fm/emcee>

435 commits 8 branches 5 releases 21 contributors

branch: master emcee /

Merge pull request #108 from RhysU/patch-1

dfm authored a month ago latest commit 5ddb22958e

docs	Add publication to testimonials.rst	a month ago
document	updating license in document	5 months ago
emcee	Fix docstrings of ``Sampler.run_mcmc``	2 months ago
examples	adding IPython parallel example	2 months ago
.gitignore	all the logos	2 years ago
.travis.yml	testing on 3.3	a year ago
AUTHORS.rst	Merge branch 'master' of https://github.com/mtazzari/emcee	2 months ago
HISTORY.rst	Formatting of load balancing docs	3 months ago
LICENSE	Re-licensing under MIT	5 months ago
MANIFEST.in	Updating MANIFEST.in	2 years ago
Makefile	updating-ish testimonials list... can't keep up!	5 months ago
README.rst	Adding PyPI badges	5 months ago
requirements.txt	getting rid of py3 build on travis	a year ago
setup.py	Re-licensing under MIT	5 months ago

- Code
- Issues 30
- Pull Requests 11
- Wiki
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git@github.com:dfm
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This repository

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arfon

PUBLIC dfm / emcee

Watch 9

Star 74

Fork 41

All Requests 6

Yours

Find a user...

- adn 2
- pirg 1
- martinsparre 1
- ipashchenko 1
- fredRos 1

Open Closed Sort: Newest

New pull request

- Use encode option to open for python 3.0+** #68
Deal with the case where the default local encoding is not unicode aware. setup.py in python3.0+ ...
by aconley 3 months ago 1 comment
- Better Multiprocessing on PTSampler** #67
I re-wrote the PTSampler to take better advantage of multiprocessing. It still passes all the tes...
by farr 4 months ago 1 comment
- Require numpy >= 1.6.0** #65
The function `numpy.count_nonzero`, used in `emcee.ptsampler`, was introduced in Numpy 1.6.0.
by lpsinger 6 months ago 2 comments
- Better Chunking for Multiprocessing Pool** #61
Modified the uses of multiprocessing's map function to use a chunksize that is `max(1, N/(Nthreads...`
by farr 7 months ago 3 comments
- Added unittest for dead walkers (initialized with `Inprob0 = NaN`).** #57
No description available
by ipashchenko 8 months ago 2 comments
- flatlnprobability** #41
I added it. I haven't tested it.
by davidwhogg 10 months ago
- Fix a couple of comment typos.** #39
No description available
by jasondavies a year ago 1 comment
- MPI Pool** #38
For problems where a single calculation of the likelihood is significantly slow you end up needin...
by joezuntz a year ago 7 comments





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PUBLIC dfm / emcee

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Closed farr wants to merge 7 commits into dfm:master from farr:master 0 #61

Discussion Commits 7 Files Changed 0



farr opened this pull request 7 months ago

Better Chunking for Multiprocessing Pool

No one is assigned

No milestone

Modified the uses of multiprocessing's map function to use a chunksize that is $\max(1, N/(Nthreads + 2))$. Having a larger chunksize tends to lower the overhead for pickling and unpickling the results of likelihood computations; in my tests this significantly (about 30%) improved the performance of multiprocessing on modest-length (100 ms) likelihood computations. It shouldn't slow down any computations significantly.

✓ All is well — The Travis build passed (Details)

3 participants



farr added some commits 7 months ago

- farr Changed multiprocessing map to use large chunksize. 15ebade
- farr Merge remote-tracking branch 'upstream/master' 934befd
- farr Better chunksize argument (doesn't leave one processor hanging) for m... ✓ 9a15bb4



davidwhogg commented 7 months ago

Will, you are the man!

Closed

+ 0 additions

- 0 deletions

PUBLIC ged-lab / khmer

Watch 18 Star 41 Fork 55

in-memory k-mer counting

2,113 commits 35 branches 15 releases 14 contributors

branch: master khmer /

Hand merge of release/update_citations		
mr-c	authored 6 days ago	latest commit fc9cafec2e
data	Correct test data for new FASTA{A,Q} name format. (Earlier conversion...	a year ago
doc	Hand merge of release/update_citations	6 days ago
examples	Copyright headers corrected for all Python and shell scripts.	13 days ago
khmer	Hand merge of release/update_citations	6 days ago
lib	Fixes Coverity CID 1054804 & 1195088	6 days ago
sandbox	Copyright headers corrected for all Python and shell scripts.	13 days ago
scripts	Many docs updates	6 days ago
tests	Merge branch 'master' of github.com:ged-lab/khmer into bug/empty_dirpath	7 days ago
.gitattributes	trying out versioneer	6 months ago
.gitignore	properly clear zlib's Makefile	12 days ago
.landscape.yaml	configure landscape.io service	a month ago
.ycm_extra_conf.py	work around for build_ext config #352	8 days ago
CITATION	Hand merge of release/update_citations	6 days ago
CONTRIBUTING.md	Create CONTRIBUTING.md	2 months ago
ChangeLog	Hand merge of release/update_citations	6 days ago

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- Pull Requests 13
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Statistics

160 public repos
18 members
opensource@nci.nih.gov

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caGrid

caGrid is a service-oriented platform that provides tools to integrate data, securely share data, and compose analysis pipelines

caCORE

caCORE contains tools and APIs that provide the building blocks for the development of interoperable information management systems

EVS

EVS provides tools and services to accurately code, analyze and share cancer and biomedical research, clinical, and public health information

caDSR

caDSR is a collection of tools for documenting and sharing human- and machine-readable data descriptions

caIntegrator Portals

The caIntegrator portals bring together diverse data types for integrative query and analysis

caTissue

caTissue is a web-based tool for managing biospecimens

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Tools to support the management and analysis of microarray data

Next-gen sequencing

Tools to support the management and analysis of next-gen sequencing data

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Tools to support clinical trials data collection and management

In vivo imaging

Tools to support the management and analysis of medical imaging data

Proteomics

Tools to support the management and analysis of proteomics data

Collaborative **authoring**

PUBLIC HoTT / book

Watch 71 Star 502 Fork 81

A textbook on informal homotopy type theory

2,763 commits 1 branch 2 releases 41 contributors

branch: master book / +

Merge pull request #511 from mikeshulman/complements

andrejbauer authored 4 days ago latest commit 29dad8bda8

coq_introduction	Misspellings run	5 months ago
cover	Fix file permissions	5 months ago
other	index-helper: exclude \indexdefs containing backslashes	6 months ago
.gitattributes	Try to prevent line ending problems	7 months ago
.gitignore	Makefile scripts to make a tar file for the arXiv	4 months ago
CONTRIBUTING.md	update CONTRIBUTING.md	2 months ago
CONVENTIONS.txt	Specified which characters are ok in labels	8 months ago
GIT_CHEATSHEET.txt	Changed instructions that tell people to use `git add -all`,	7 months ago
Makefile	Add some missing files to the arXiv tarball	4 months ago
README.md	Fixed wee typo in README	5 months ago
back.tex	omit header on blank versos, fix #269	5 months ago
basics.tex	remove spurious function arguments	7 days ago
blurb.tex	justify back cover	5 months ago
categories.tex	removing some further double words	2 months ago

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PUBLIC **scipy / scipy_proceedings**

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Tools used to generate the SciPy conference proceedings

562 commits 2 branches 0 releases 18 contributors

branch: master **scipy_proceedings** / +

README file is Markdown--fix syntax.

stefanv authored 5 months ago latest commit ad71ad329a

papers	Allow adjusting of table width.	5 months ago
publisher	Fix figure width when specified.	5 months ago
reviews	Fix typo in review template.	a year ago
.gitignore	improved copyright template and updated .gitignore	2 years ago
LICENSE.txt	Merge branch 'pygments_highlighting'	3 years ago
README.md	README file is Markdown--fix syntax.	5 months ago
make_paper.sh	refactor code from shell script to python script	2 years ago
scipy_proc.json	Add sponsored students and clean up proceedings build.	2 years ago

SciPy Proceedings

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PUBLIC jrjohansson / scientific-python-lectures

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Lectures on scientific computing with python, as IPython notebooks.

98 commits 1 branch 0 releases 3 contributors

branch: master scientific-python-lectures

ran notebook with python3. added version information table.

	jrjohansson authored 4 days ago	latest commit 68fd7b99e1
images	updated RCS notebook	11 months ago
scripts	added missing extra files	a year ago
.gitignore	Initial commit	a year ago
Lecture-0-Scientific-Computi...	rephrase note on replicability and reproducibility	2 months ago
Lecture-1-Introduction-to-Pyt...	ran notebook with python3. added version information table.	4 days ago
Lecture-2-Numpy.ipynb	fixed some python3 compability issues	4 days ago
Lecture-3-Scipy.ipynb	Merge pull request #8 from gfrubi/master	3 months ago
Lecture-4-Matplotlib.ipynb	added note about %config InlineBackend	2 months ago
Lecture-5-Sympy.ipynb	updated link to IPython notebook	3 months ago
Lecture-6A-Fortran-and-C.ip...	updated link to IPython notebook	3 months ago
Lecture-6B-HPC.ipynb	updated link to IPython notebook	3 months ago
Lecture-7-Revision-Control-S...	updated link to IPython notebook	3 months ago
README.md	Added CC-BY as license for the notebooks. Closes #1.	9 months ago
stockholm_td_adj.dat	added missing extra files	a year ago

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Lecture 6B - Tools for high-performance computing applications

J.R. Johansson (robert@riken.jp) <http://dml.riken.jp/~rob/>

The latest version of this [IPython notebook](http://github.com/jrjohansson/scientific-python-lectures) lecture is available at <http://github.com/jrjohansson/scientific-python-lectures>.

The other notebooks in this lecture series are indexed at <http://jrjohansson.github.com>.

```
In [1]: %pylab inline
```

multiprocessing

Python has a built-in process-based library for concurrent computing, called multiprocessing.

```
In [2]: import multiprocessing
import os
import numpy
```

```
In [3]: def task(args):
print "PID =", os.getpid(), ", args =", args

return os.getpid(), args
```

```
In [4]: task("test")

PID = 22959 , args = test
```

```
Out[4]: (22959, 'test')
```

```
In [5]: pool = multiprocessing.Pool(processes=4)
```

```
In [6]: result = pool.map(task, [1,2,3,4,5,6,7,8])
```



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PUBLIC jrjohansson / scientific-python-lectures

Watch 41

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Fork 59

branch: master scientific-python-lectures / Lecture-6B-HPC.ipynb

jrjohansson 3 months ago updated link to IPython notebook

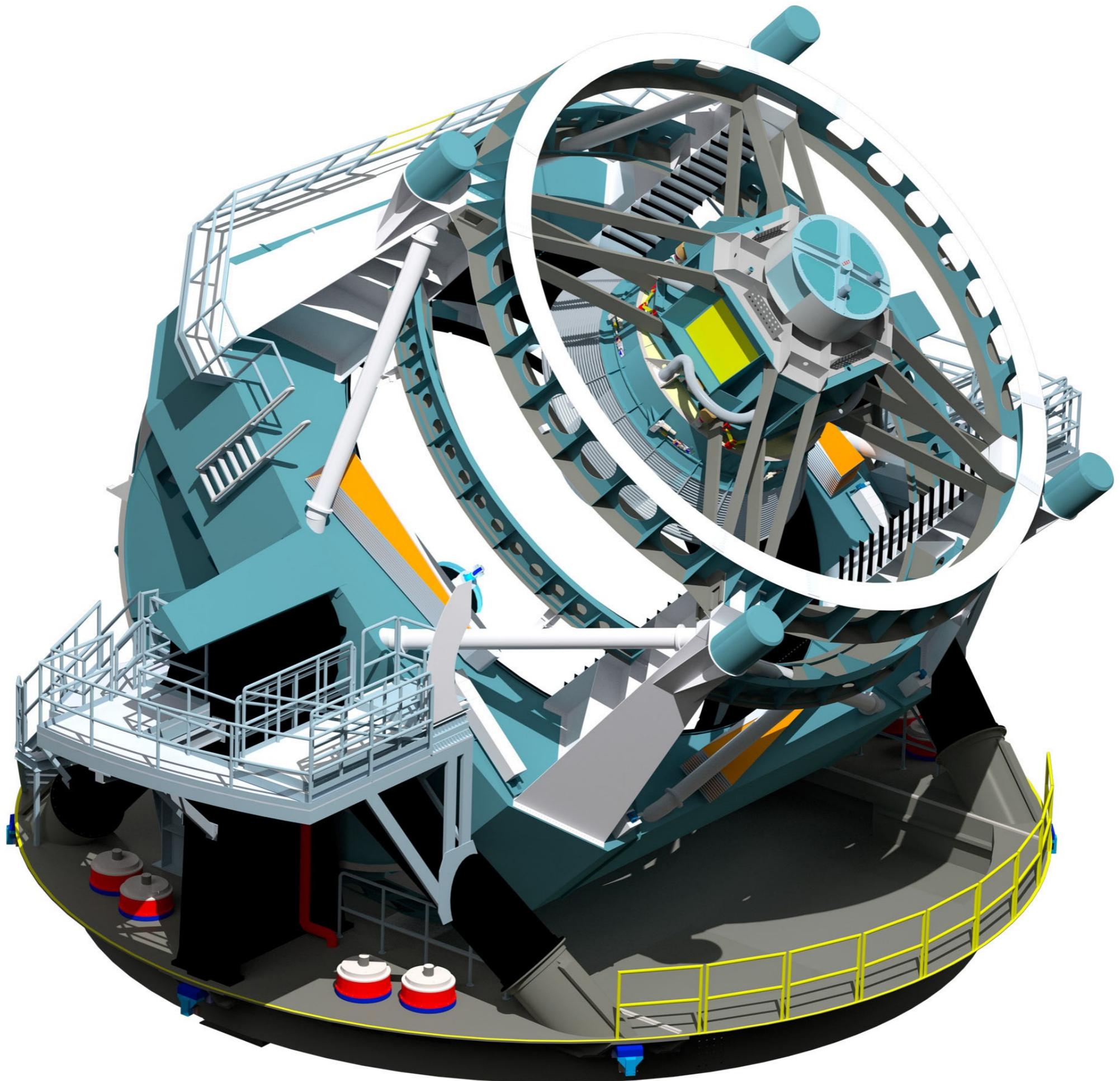
1 contributor

file | 1032 lines (1032 sloc) | 49.574 kb

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```
1 {
2   "metadata": {
3     "name": "Lecture-6B-HPC"
4   },
5   "nbformat": 3,
6   "nbformat_minor": 0,
7   "worksheets": [
8     {
9       "cells": [
10        {
11          "cell_type": "markdown",
12          "metadata": {},
13          "source": [
14            "# Lecture 6B - Tools for high-performance computing applications\n",
15            "\n",
16            "J.R. Johansson (robert@riken.jp) http://dml.riken.jp/~rob/\n",
17            "\n",
18            "The latest version of this [IPython notebook](http://ipython.org/notebook.html) lecture is available at [http://git
19            "\n",
20            "The other notebooks in this lecture series are indexed at [http://jrjohansson.github.com](http://jrjohansson.github
21          ]
22        },
23        {
24          "cell_type": "code",
25          "collapsed": false,
26          "input": [
27            "%pylab inline"
28          ],
```

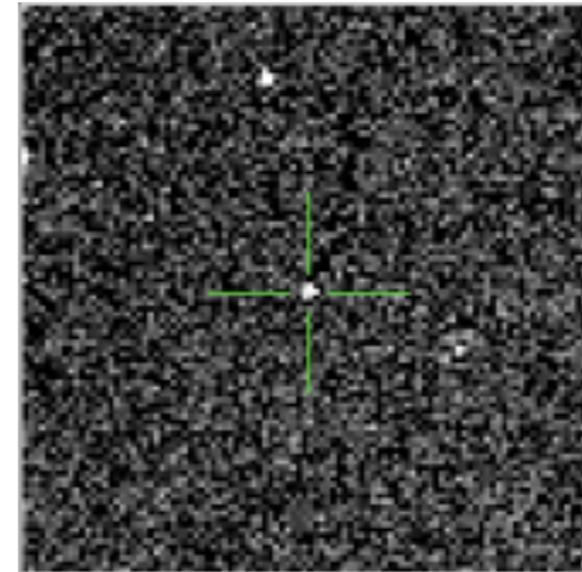
What about LSST?





Level 1 (continual)

Level 2 (periodic)



$10^n?$

LSST is a project that is
inherently open

Informatics and Statistics

Active Galactic Nuclei Solar System

Strong lensing Dark Energy (DESC)

Stars, Milky Way

Transients/variable stars

Galaxies Large-scale structure

Supernovae Weak lensing

Where do communities form?

Around a shared challenge?

Around **shared** data?

Informatics and Statistics

Active Galactic Nuclei Solar System

Strong lensing Dark Energy (DESC)

Stars, Milky Way

Transients/variable stars

Galaxies Large-scale structure

Supernovae Weak lensing

Open Source: Culture of reuse
is ubiquitous



WHOLESALE GROCERS

Yorkshire
Grand Départ 2014

3400

TREK

Stuart Lowe, RTW 2014 current location

Gist Detail

Revisions 48

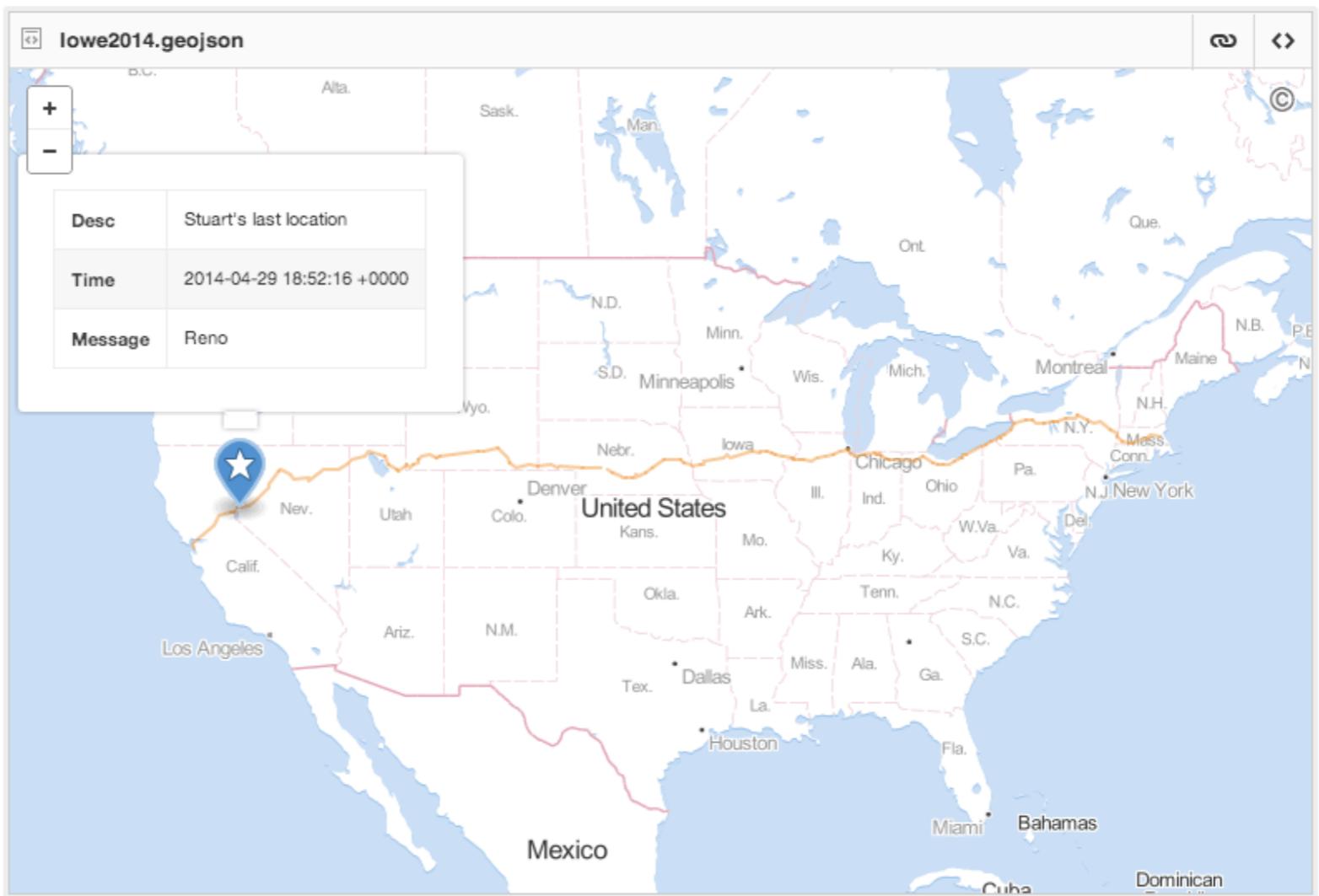
Stars 2

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Comments are parsed with GitHub Flavored Markdown

Stuart Lowe, RTW 2014 current location

GitHub Gist

arfon / lowe2014.geojson

Created 10 days ago

Revisions 48

Stars 2

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<script src="https://gist.github.com/arfon/11101663.js"></script>

Link to this gist

https://gist.github.com/arfon/11101663

lowe2014.geojson

Desc	Stuart's last location
Time	2014-04-29 18:52:16 +0000
Message	Reno

United States

Mexico

Write Preview

Comments are parsed with GitHub Flavored Markdown



search for sms

Exact match

- **sms (0.1)** 2,787 downloads
Send SMS messages with Twilio.

Displaying gems 1 - 30 of 119 in total

- **moonshado-sms (1.1.1)** 31,736 downloads
Moonshado SMS gem

- **cdyne-sms-notify (1.0.6)** 24,700 downloads
Ruby interface to the CDYNE SMSNotify! service.

- **smsc_manager (0.5.6)** 22,243 downloads
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SMS Gateway Adapters to use with action_sms

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Switch between SMS Gateways at a whim without modifying your application code or tests

- **smshelper (0.4.12)** 15,969 downloads
send sms with multiple gateways, like esendex, bulksms, clickatell etc..

```
1 require 'sinatra'
2 require 'twilio-ruby'
3 require 'json'
4 require 'octokit'
5
6 post '/sms-receive' do
7   lat_lng_msg = params[:Body]
8   lat, lng, msg = lat_lng_msg.split(',').map(&:strip)
9
10  current_location = latest_geom_position_from(lat,lng, msg)
11  update_gist_location(current_location)
12
13  twiml = Twilio::Twiml::Response.new do |r|
14    r.Message "OK, I've got you at https://www.google.com/maps/preview?q=##{lat},#{lng}"
15  end
16  twiml.text
17 end
18
19 def update_gist_location(position)
20   client = Octokit::Client.new(:access_token => ENV['GH_TOKEN'])
21   old_geo = JSON.load(File.open('lowe2014.geojson', 'r').read)
22   old_geo["features"] << position
23
24   client.edit_gist(ENV['GIST_ID'], {
25     :files => {"lowe2014.geojson" => {"content" => JSON.pretty_generate(old_geo)}}
26   })
27 end
28
29 def latest_geom_position_from(lat,lng, msg = nil)
30   position = Hash.new
31
32   position["type"] = "Feature"
33   position["properties"] = {
34     "marker-symbol" => "star",
35     "marker-size" => "large",
36     "Desc" => "Stuart's last location",
37     "Time" => Time.now.to_s
38   }
39   position["geometry"] = {
40     "type" => "Point",
41     "coordinates" => [
42       lng.to_f,
43       lat.to_f
44     ]
45   }
46
47   # Set the message property if there is one
48   position["properties"]["Message"] = msg if msg
49
50   return position
51 end
```



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PUBLIC



arfon / rtwlocation

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Tracking Stuart on his recreation of Thomas Stevens 1884 around the world bike ride:
<http://strudel.org.uk/RTWbike> — Edit

4 commits

1 branch

0 releases

1 contributor



branch: master

rtwlocation / +

Adding map image



arfon authored 10 days ago

latest commit 32b3d1b889

config	Importing initial application	11 days ago
Gemfile	Importing initial application	11 days ago
Gemfile.lock	Importing initial application	11 days ago
LICENSE	Importing initial application	11 days ago
README.md	Adding map image	10 days ago
config.ru	Importing initial application	11 days ago
lowe2014.geojson	Importing initial application	11 days ago
rtwlocation.rb	Optional message	10 days ago

README.md

RTW Location

Tracking Stuart on his recreation of Thomas Stevens 1884 around the world bike ride:

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Your software should be about
the thing that is **different**

science too!

Your software should be about
the thing that is **different**

How do we make this
behaviour **the norm**?

Credit

“Academic environments of today do **not reward tool builders**”

Ed Lazowska, OSTP event

PUBLIC ged-lab / khmer

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in-memory k-mer counting

2,113 commits 35 branches 15 releases 14 contributors

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File/Folder	Description	Time
Hand merge of release/update_citations		
mr-c	authored 6 days ago	latest commit fc9cafec2e
data	Correct test data for new FASTA{A,Q} name format. (Earlier conversion...	a year ago
doc	Hand merge of release/update_citations	6 days ago
examples	Copyright headers corrected for all Python and shell scripts.	13 days ago
khmer	Hand merge of release/update_citations	6 days ago
lib	Fixes Coverity CID 1054804 & 1195088	6 days ago
sandbox	Copyright headers corrected for all Python and shell scripts.	13 days ago
scripts	Many docs updates	6 days ago
tests	Merge branch 'master' of github.com:ged-lab/khmer into bug/empty_dirpath	7 days ago
.gitattributes	trying out versioneer	6 months ago
.gitignore	properly clear zlib's Makefile	12 days ago
.landscape.yaml	configure landscape.io service	a month ago
.ycm_extra_conf.py	work around for build_ext config #352	8 days ago
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CONTRIBUTING.md	Create CONTRIBUTING.md	2 months ago
ChangeLog	Hand merge of release/update_citations	6 days ago

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- Announcements: <http://lists.idyll.org/listinfo/khmer-announce>

You can contact the current maintainers at khmer-project@idyll.org.

IMPORTANT NOTE: CITE US!

khmer is *research software*, so you should cite us when you use it in scientific publications! Please see the CITATION file for citation information.

INSTALL INSTRUCTIONS:

khmer requires Python 2.7+. Linux users will need the python development libraries and gcc. OS X users may need XCode installed. For more details see <doc/install.txt>

In short:

```
pip install khmer
```

 to download, build, and install the latest stable version.

The use of a virtualenv is recommended, see <http://www.virtualenv.org/en/latest/#installation>

khmer is under the BSD license; see <doc/LICENSE.txt>. Distribution, modification and redistribution, incorporation into other software, and pretty much everything else is allowed.

khmer project contributors also edit documents collaboratively at [our wiki](#).

CTB 2014-03-31



PUBLIC ged-lab / khmer

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branch: master khmer / CITATION

mr-c 6 days ago Hand merge of release/update_citations
2 contributors

file 46 lines (33 sloc) 1.593 kb Open Edit Raw Blame History Delete

```
1 Software Citation
2 -----
3
4 If you use the khmer software, you must cite:
5
6     Crusoe et al., The khmer software package: enabling efficient
7     sequence analysis. 2014. doi: 10.6084/m9.figshare.979190
8
9 If you use any of our published scientific methods, you should *also*
10 cite the relevant paper(s), as directed below.
11
12 Graph partitioning and/or compressible graph representation
13 -----
14
15 The load-graph.py, partition-graph.py, find-knots.py, load-graph.py,
16 and partition-graph.py scripts are part of the compressible graph
17 representation and partitioning algorithms described in:
18
19     Pell J, Hintze A, Canino-Koning R, Howe A, Tiedje JM, Brown CT.
20     Proc Natl Acad Sci U S A. 2012 Aug 14;109(33):13272-7.
21     doi: 10.1073/pnas.1121464109.
22     PMID: 22847406
23
24 Digital normalization
25 -----
26
27 The normalize-by-median.py and count-median.py scripts are part of
28 the digital normalization algorithm, described in:
```

Navigation sidebar with icons for code, issues, pull requests, activity, and search.



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astropy / astropy

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Main Astropy repository <http://astropy.org>

8,221 commits

5 branches

14 releases

75 contributors



branch: master

astropy

Merge pull request #2372 from amras1/sextactor-units



taldcroft authored an hour ago

latest commit b5b8285771

astropy	Merge pull request #2372 from amras1/sextactor-units	an hour ago
cextern	Upgrade to wcslib 4.22	9 days ago
docs	Merge pull request #2368 from embray/fits-merge	13 hours ago
licenses	Merge branch 'master' into erfa	9 months ago
scripts	Adds support for compressed headers + renamed to fitsheader	2 months ago
static	Move the binary installer background images to a new 'static' directo...	4 months ago
.gitattributes	Merge branch 'master' into astropy	6 months ago
.gitignore	Change docs `_generated` folder name to `api`	6 months ago
.mailmap	Adding a .mailmap file to merge duplicate persons output by, for exam...	3 months ago
.travis.yml	add beautiful soup to opdeps	a month ago
CHANGES.rst	Merge pull request #2372 from amras1/sextactor-units	an hour ago
CITATION	Whitespace	7 months ago
CONTRIBUTING.md	Modified section title as suggested by @taldcroft	5 months ago
MANIFEST.in	We no longer use pyparsing	5 months ago
README.rst	Add PvPL shields to README	6 months ago

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its an hour ago

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Astropy

version 0.3.1 downloads 32.3K this month

Astropy (<http://astropy.org/>) is a package intended to contain much of the core functionality and some common tools needed for performing astronomy and astrophysics with Python.

Releases are [registered on PyPI](#), and development is occurring at the [project's github page](#).

For installation instructions, see the [online documentation](#) or `docs/install.rst` in this source distribution.

Jenkins Build Status

Build status **Passing**

Travis Build Status

build **passing**

Test Coverage Status

coverage **83%**





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Jenkins Build Status

Build status **Passing**

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Title: Astropy: A community Python package for astronomy

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*“publishing a paper about
code is basically just
advertising”*

David Donoho

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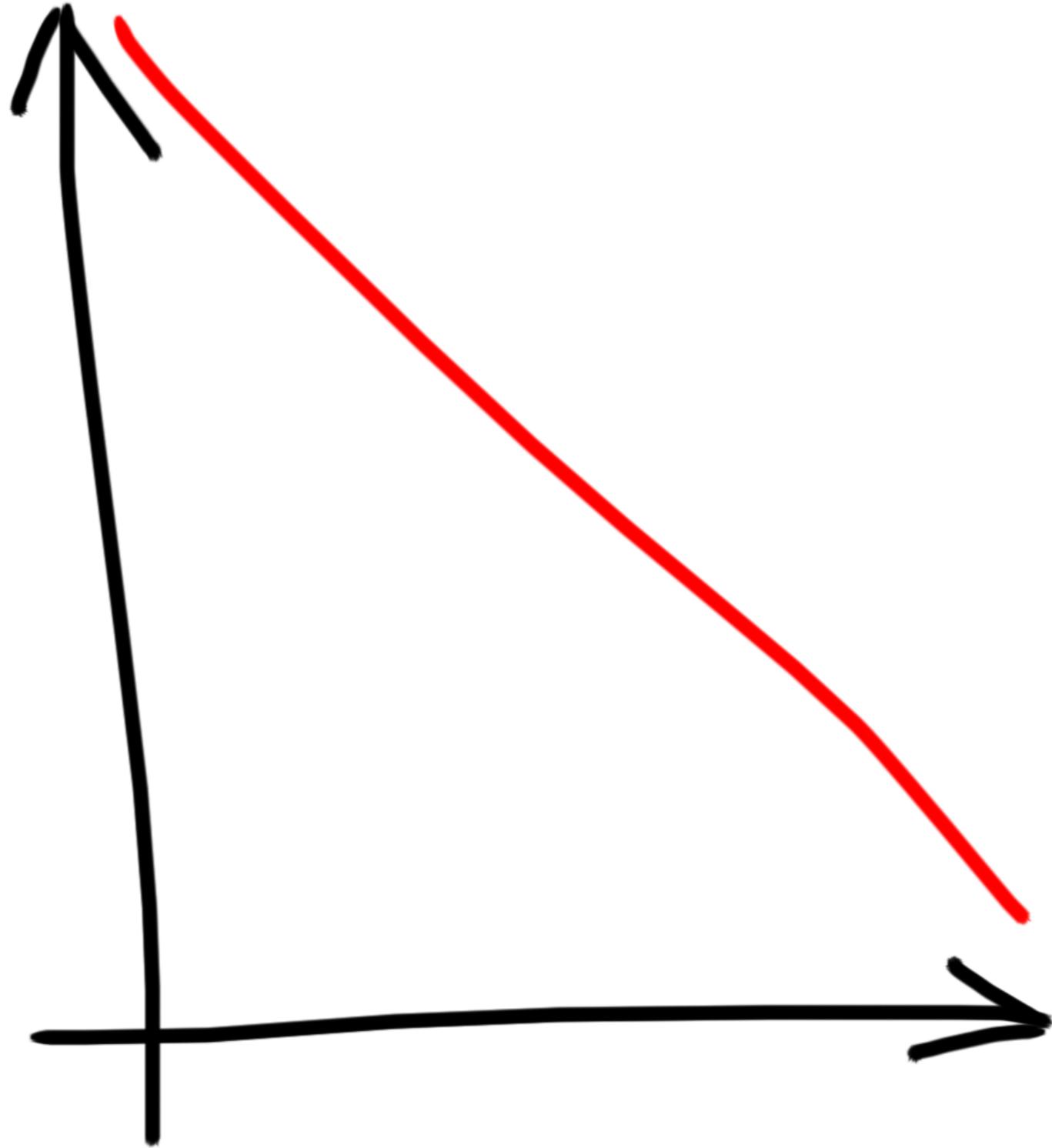


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EDITED BY TONY HEY, STEWART TANSLEY, AND KRISTIN TOLLE

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twilio-ruby 3.11.5

A simple library for communicating with the Twilio REST API, building TwiML, and generating Twilio Client Capability Tokens

INSTALL > `gem install twilio-ruby`

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Authors

Andrew Benton

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A Ruby gem for communicating with the Twilio API and generating TwiML
<http://twilio-ruby.readthedocs.org/en/latest/>

326 commits 6 branches 30 releases 21 contributors

branch: master twilio-ruby

Merge pull request #87 from karlfreeman/readme-license-gitignore-refresh

doublack authored a month ago latest commit 9bb16859fb

conf	use an included ca cert bundle for convenience	2 years ago
docs	Fix code example for retrieving sent messages	4 months ago
examples	Add example on how to decommission a phone number	5 months ago
lib	Stop doing magic	3 months ago
spec	Add spec for url_encode on date	4 months ago
.gitignore	README, LICENSE and .gitignore refresh	a month ago
.travis.yml	Reverts: Travis workaround needed for testing ruby 1.8.7	3 months ago
AUTHORS.md	prepare for 3.11.5 release	3 months ago
CHANGES.md	README, LICENSE and .gitignore refresh	a month ago
Gemfile	Uses secure RubyGems URL	a year ago
LICENSE.md	README, LICENSE and .gitignore refresh	a month agoM...
Makefile	update AUTHORS.md	7 months ago
README.md	include more installation options	a month ago
Rakefile	Splitting specs in to separate files.	2 years ago

- Code
- Issues 11
- Pull Requests 6
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- Pulse
- Graphs
- Network

SSH clone URL
git@github.com:twi

You can clone with HTTPS, SSH, or Subversion.

Clone in Desktop
Download ZIP

README.md

gem v3.11.5 build passing code climate 3.5

twilio-ruby

A module for using the Twilio REST API and generating valid TwiML. [Click here to read the full documentation.](#)

Installation

To install using [Bundler](#) grab the latest stable version:

```
gem 'twilio-ruby', '~> 3.11'
```

To manually install `twilio-ruby` via [Rubygems](#) simply gem install:

```
gem install twilio-ruby
```

To build and install the development branch yourself from the latest source:

```
git clone git@github.com:twilio/twilio-ruby.git  
cd twilio-ruby  
make install
```

Getting Started With REST

Setup Work

```
require 'rubygems' # not necessary with ruby 1.9 but included for completeness
```

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- CESNET/puppet-opennebula_sunst... 1
3 sec
- johncarl81/parceler 161
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- cargomedia/CM 681
27 sec
- njam/CM 164
15 sec

twilio/twilio-ruby

build passing

A Ruby gem for communicating with the Twilio API and generating TwiML

Current Build History Pull Requests Branch Summary

Build	161	Commit	597f2c1 (master)
State	Passed	Pull Request	#94 Use lower camel case for TwiML verb arguments
Finished	a day ago	Author	Jeremy Franz
Duration	32 min 45 sec	Committer	Jeremy Franz
Message	Use lower camel case for TwiML verb arguments		

The existing example will not camel case the existing finish_on_key argument to return finishOnKey as expected.

Build Matrix

Job	Duration	Finished	Ruby
161.1	2 min 30 sec	a day ago	1.8.7
161.2	2 min 13 sec	a day ago	1.9.2
161.3	2 min 31 sec	a day ago	1.9.3
161.4	2 min 15 sec	a day ago	2.0.0
161.5	2 min 2 sec	a day ago	2.1.0
161.6	2 min 45 sec	a day ago	jruby-18mode
161.7	3 min 10 sec	a day ago	jruby-19mode
161.8	6 min 19 sec	a day ago	rbx-2.1.1
161.9	5 min 15 sec	a day ago	rbx-2.2.1

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twilio/twilio-ruby

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 Summary of **March 24th - 30th**
1 file changed, 22 insertions, 10 deletions

 Summary of **February 3rd - 9th**
6 files changed, 29 insertions, 27 deletions

 Summary of **January 20th - 26th**
2 files changed, 5 insertions, 4 deletions

 Summary of **January 13th - 19th**
2 files changed, 4 insertions, 1 deletion

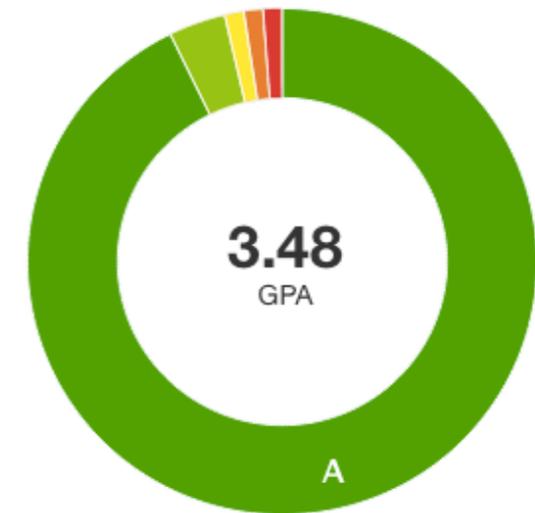
 Summary of **December 23rd - 29th**
0 files changed, 0 insertions, 0 deletions

 Summary of **December 16th - 22nd**
2 files changed, 4 insertions, 2 deletions

 Summary of **October 21st - 27th**
3 files changed, 14 insertions, 6 deletions

code climate 3.5 [Link to Code Climate from your README.](#)

Classes by Rating



Hotspots

 [Twilio::REST::ListResource](#)

Discoverability

twilio-ruby 3.11.5

A simple library for communicating with the Twilio REST API, building TwiML, and generating Twilio Client Capability Tokens

INSTALL > `gem install twilio-ruby`

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Authors

Andrew Benton

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What can you do **today**?

Why are you sharing?

Share more often

If you're going to share it then
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Which of the following best describes your situation?



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The **MIT License** is a permissive license that is short and to the point. It lets people do anything they want with your code as long as they provide attribution back to you and don't hold you liable.

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The **GPL (V2 or V3)** is a copyleft license that requires anyone who distributes your code or a derivative work to make the source available under the same terms. V3 is similar to V2, but further restricts use in hardware that forbids software alterations.

Linux, **Git**, and **WordPress** use the GPL.

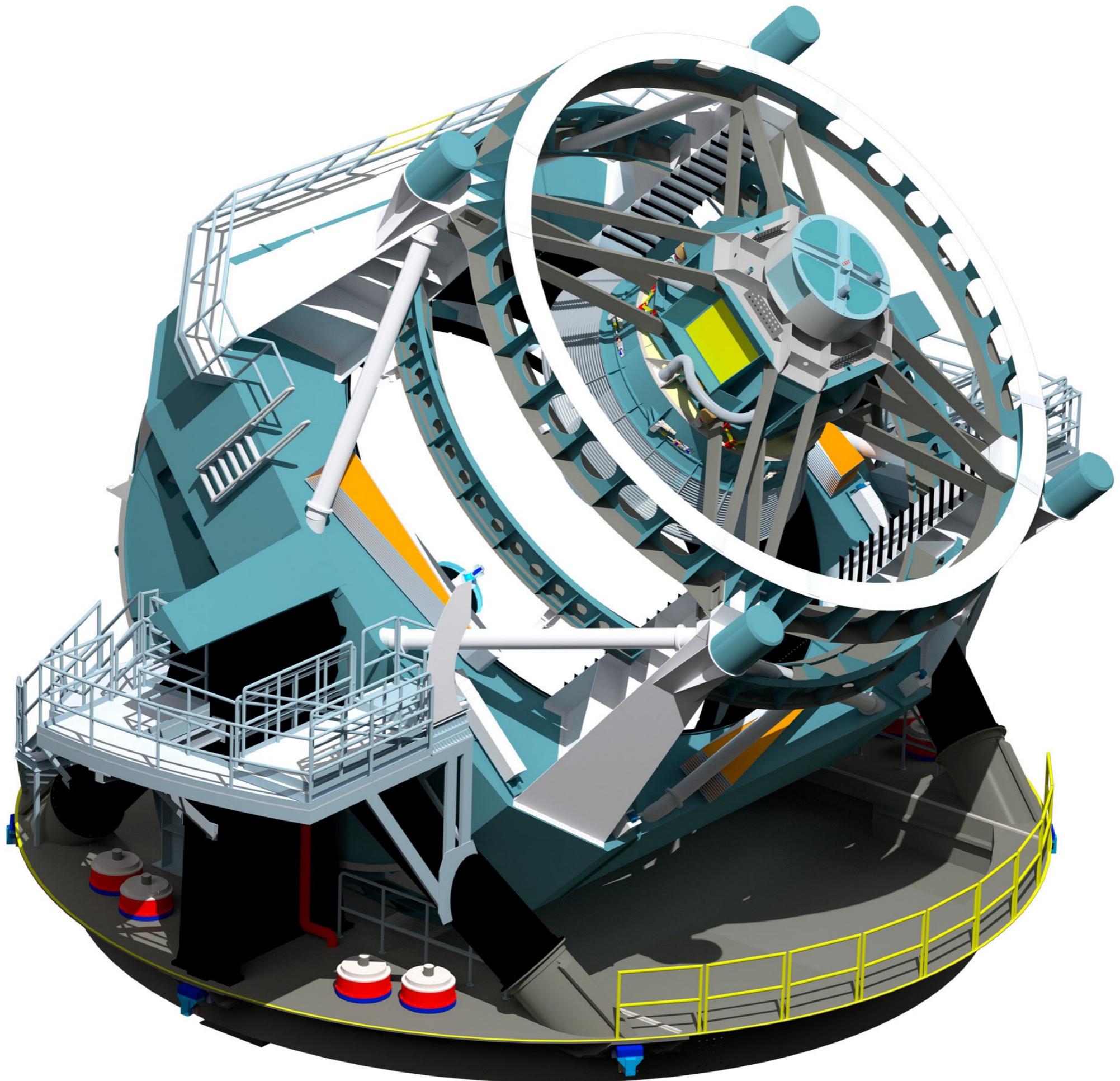
What if none of these work for me?

**Treat documentation as a
first class entity**

Share more often
(no matter how small)

```
> git clone git@github.com:arfon/aat/pixel_masks  
> cat bad_pix_mask.txt
```

```
130 130 1 2048  
189 189 258 258  
480 562 378 378  
493 521 390 397  
851 851 247 274  
319 319 304 580  
493 511 610 636  
188 188 228 228
```



Open Data is the **least** we
can do

This is not a talk about
Open Science

This is a talk about
Accelerated Science

Thanks.

✉ arfon@github.com

🐦 @arfon