# Documentation Contribution Primer

Jonathan Sick Slack/GitHub: @jonathansick

Rubin Observatory Operations Boot Camp | October 14, 2020





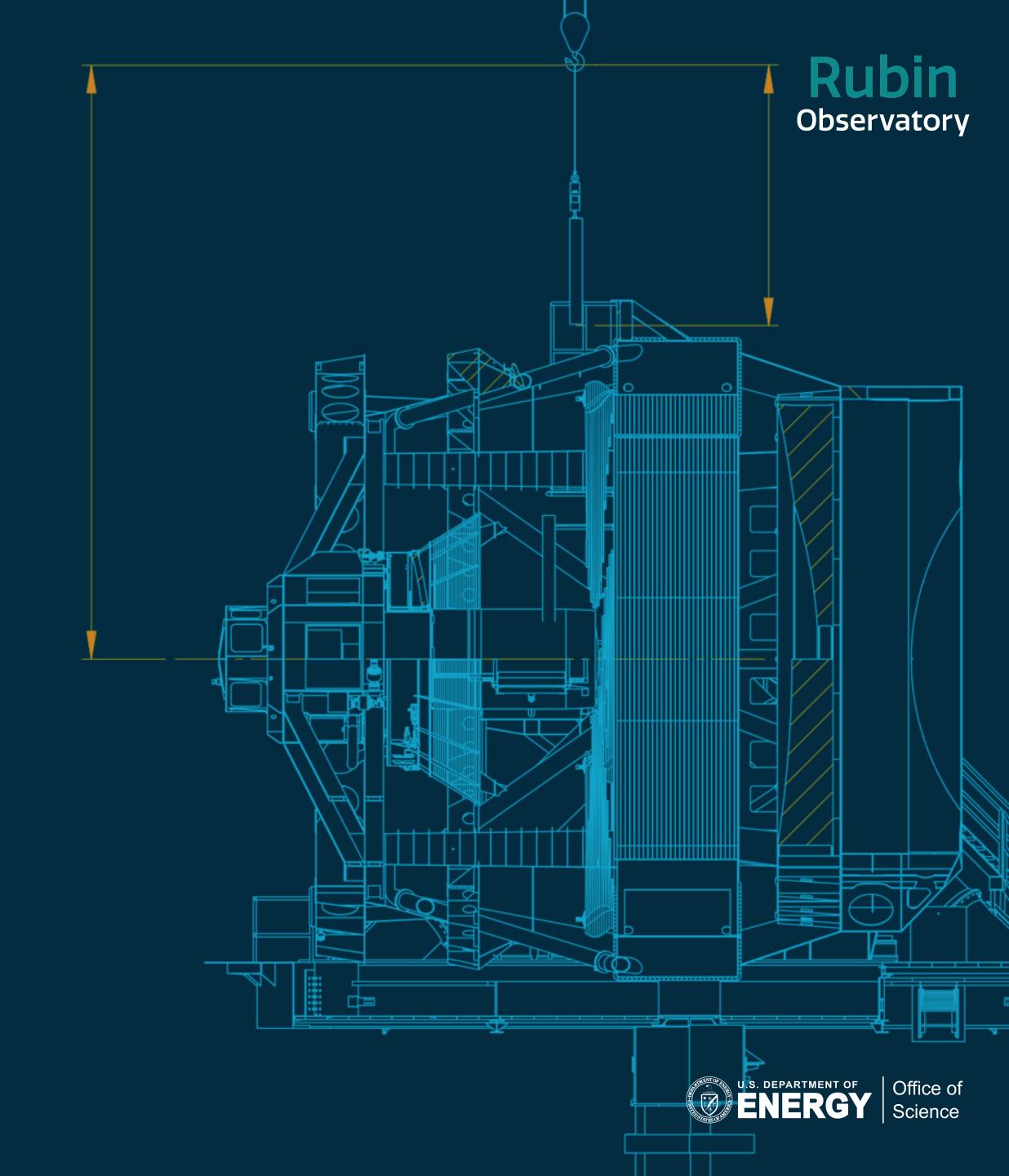








# Docs or it didn't happen





### What you will learn

- Gain a broad understanding of our documentation system and patterns.
- Learn how to write technical notes.
- Learn how to contribute to user guides and software documentation.

### Outline

- 1. Documentation system
- 2. Creating documents and technical notes
- 3. ReStructuredText primer
- 4. Writing user guides and Python software documentation
- 5. Python API documentation (Numpydoc docstrings)
- 6. Content style guide





## Documentation system concepts: Docs-like-code

- User guides for a software system are embedded in the software's GitHub repository (or in their own GitHub repository if the documentation covers multiple software repositories).
  - Documentation is naturally versioned with the underlying software.
  - Documentation contribution review using Pull Requests.
  - Git and GitHub skills are necessary for technical writing.
- Sphinx (sphinx-doc.org) is our main tool for building documentation sites.
  - ReStructuredText is the primary format for writing content, along with Jupyter Notebooks for tutorials.
  - SQuaRE builds custom Sphinx extensions to improve doc production; inquire at #dm-docs on Slack.
- Continuous integration (CI) and deployment (CD)
  - Documentation sites are tested, built, and deployed to the web from the CI/CD server configured for a project (e.g. Jenkins or GitHub Actions).
- Documentation is hosted on Isst.io, a platform powered by LSST the Docs.
  - Documentation is publicly available on the web.



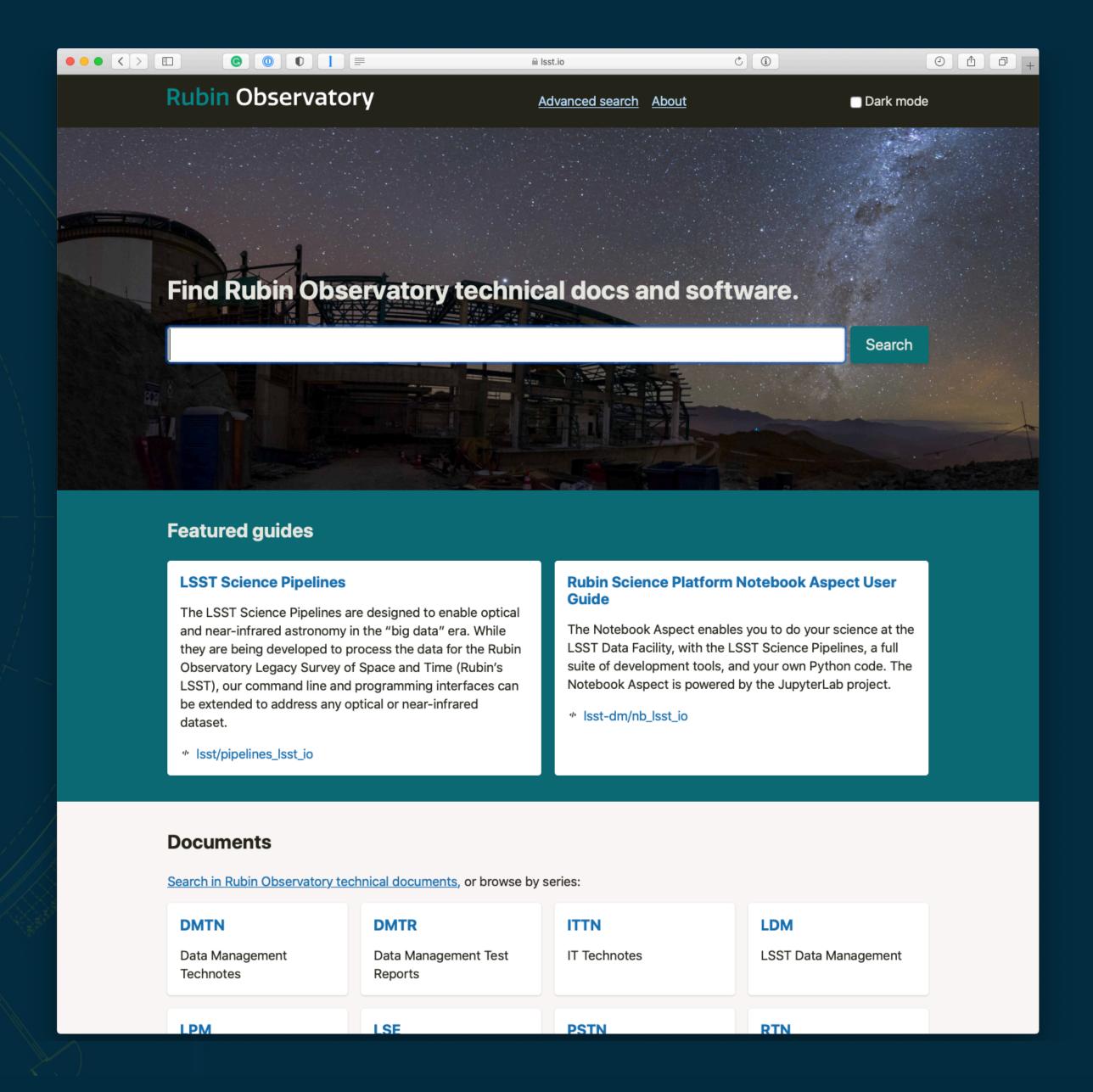


### Documentation system concepts: Isst.io

- Documentation portal for search and browsing.
  - www.lsst.io
- Each documentation project is a subdomain.
  - E.g. pipelines.lsst.io, nb.lsst.io
- The "main" version of any documentation project is served from the root path.
  - E.g. pipelines.lsst.io/
  - The meaning of "main" is configurable, per-project
- Alternative versions are served with /v/{version}/ path prefixes.
  - E.g. pipelines.lsst.io/v/daily/, pipelines.lsst.io/v/v20\_0\_0/
- Dashboard for versions.
  - E.g. pipelines.lsst.io/v/











Observatory



## Key types of documentation

#### **Controlled documents**

https://developer.lsst.io/project-docs/change-controlled-docs.html

- Requirements, specifications, design, test reports, and policies.
- Are approved by a control board.
- Officially published in DocuShare (docushare.lsstcorp.org)
- Many (but not all!) such documents are drafted on GitHub/lsst.io using LaTeX.

Series: LPM, LSE, LDM, etc.

#### **Technical notes**

https://developer.lsst.io/project-docs/technotes.html

- A medium for ground-up technical communication to your team, other teams, and beyond:

   Ideas, designs, proposals,
   experiments, literature reviews,
   and more. Even paper preprints.
- Combines the organization of a document archive with the immediacy and low overhead of a wiki.
- Migrate to guides (→) to document living systems and products.
- RST/Sphinx or LaTeX format

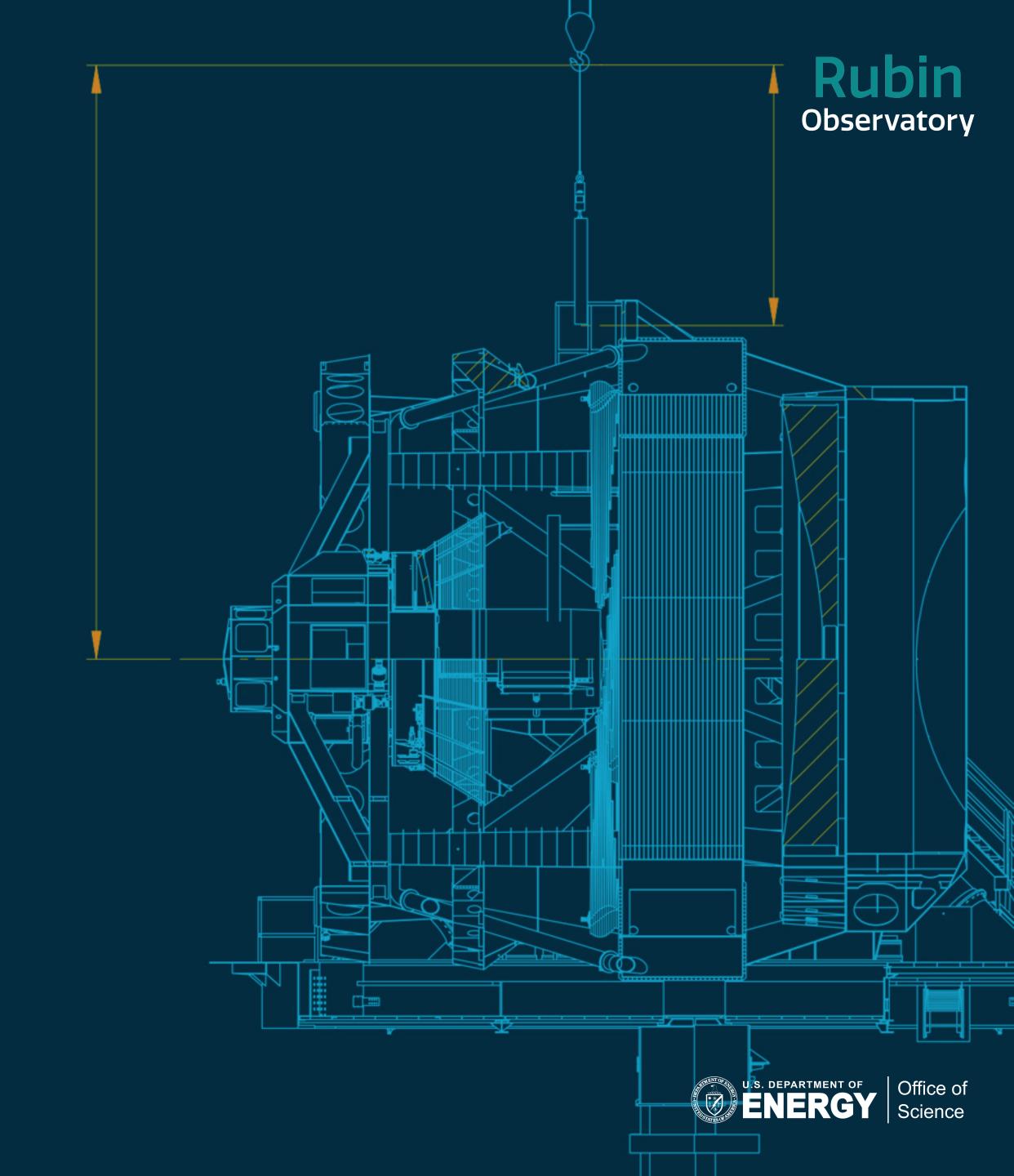
Technote series: DMTN, SQR, TSTN, SMTN, PSTN, RTN, etc.

#### Guides

- Multi-page websites that document a product, system, or service.
- Usually built with Sphinx (sphinx-doc.org) and Documenteer
   (documenteer.lsst.io).
- User-facing or developer/teamfacing (or both!).
- Content types:
  - Conceptual guides
  - How-tos
  - Tutorials
  - References



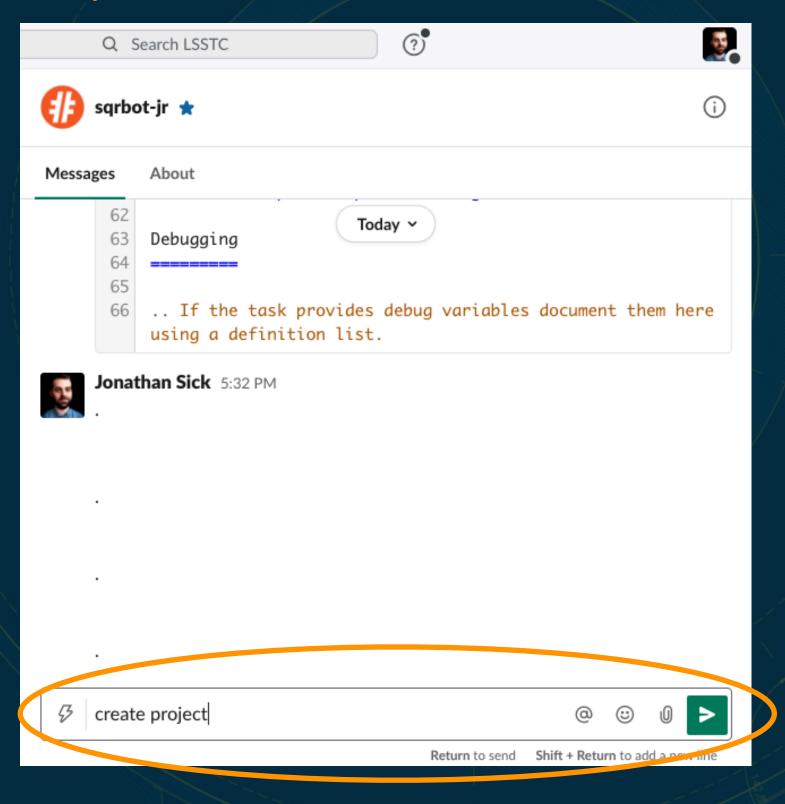
# Technical notes





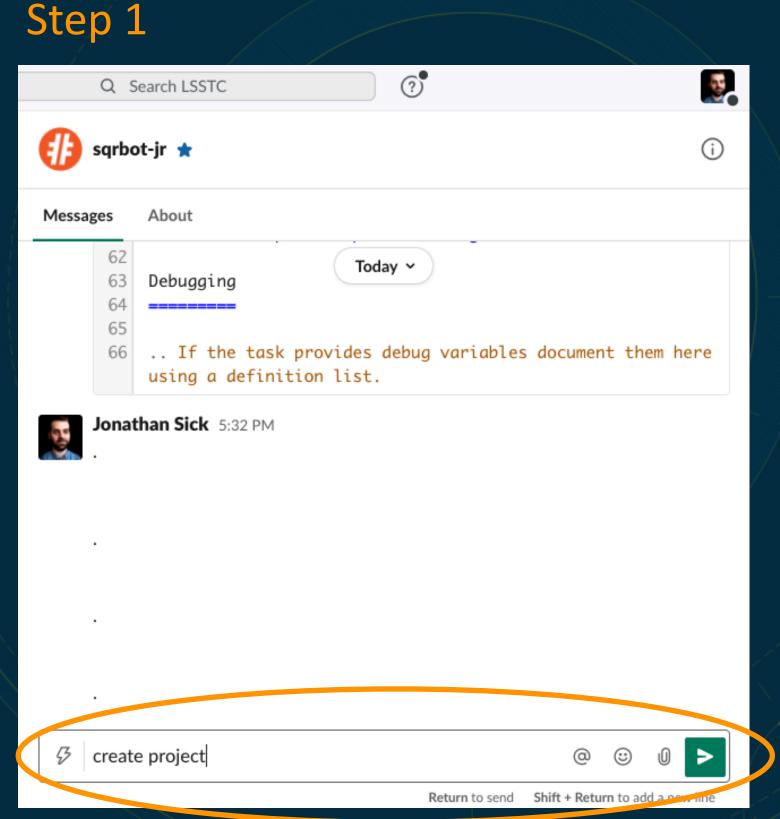


#### Step 1

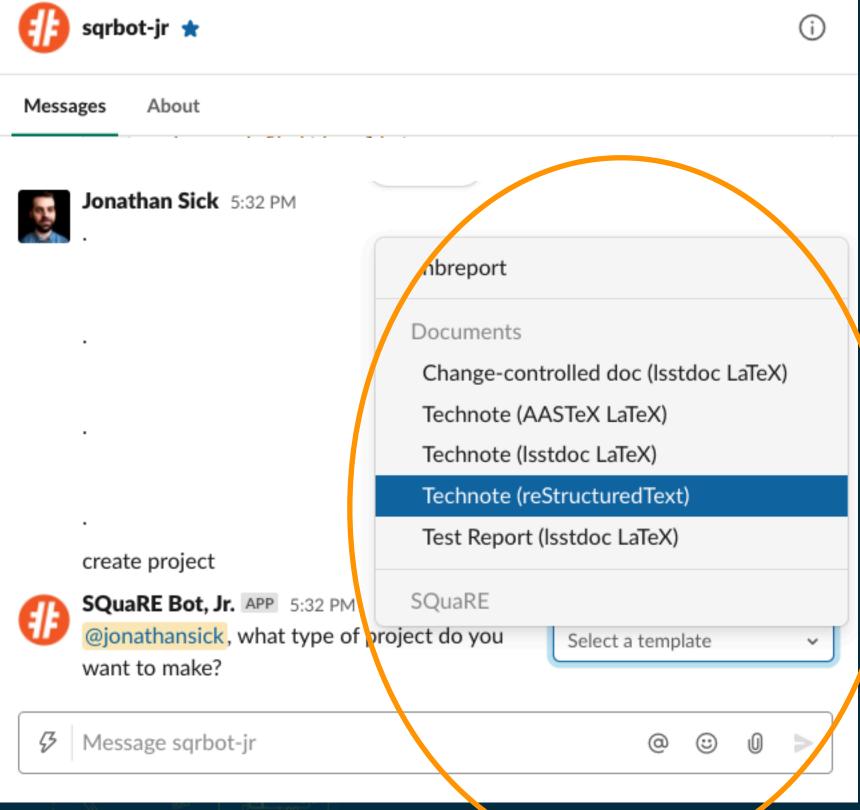




### Let's make a technical note



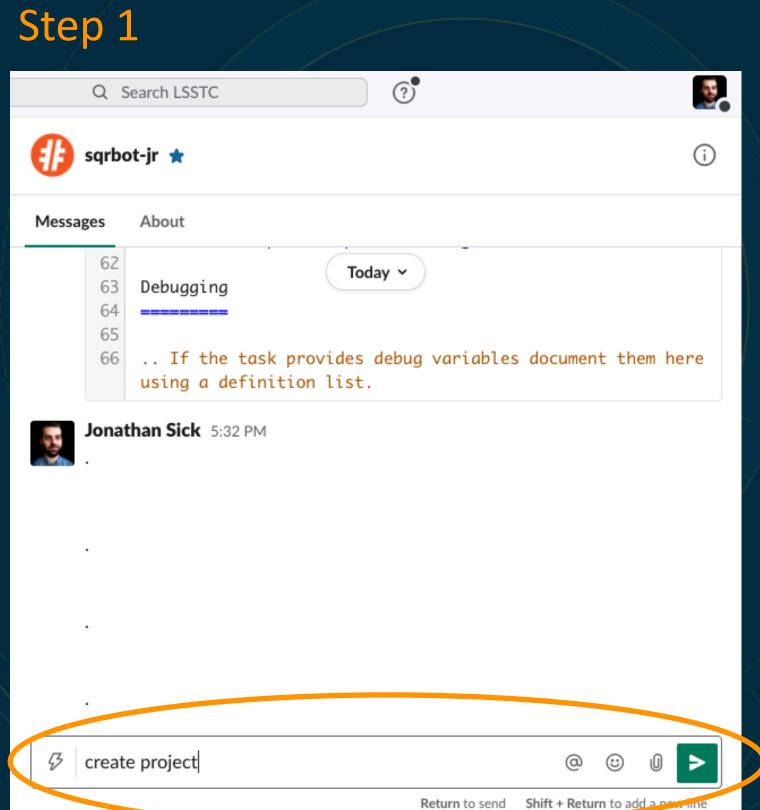
# Step 2

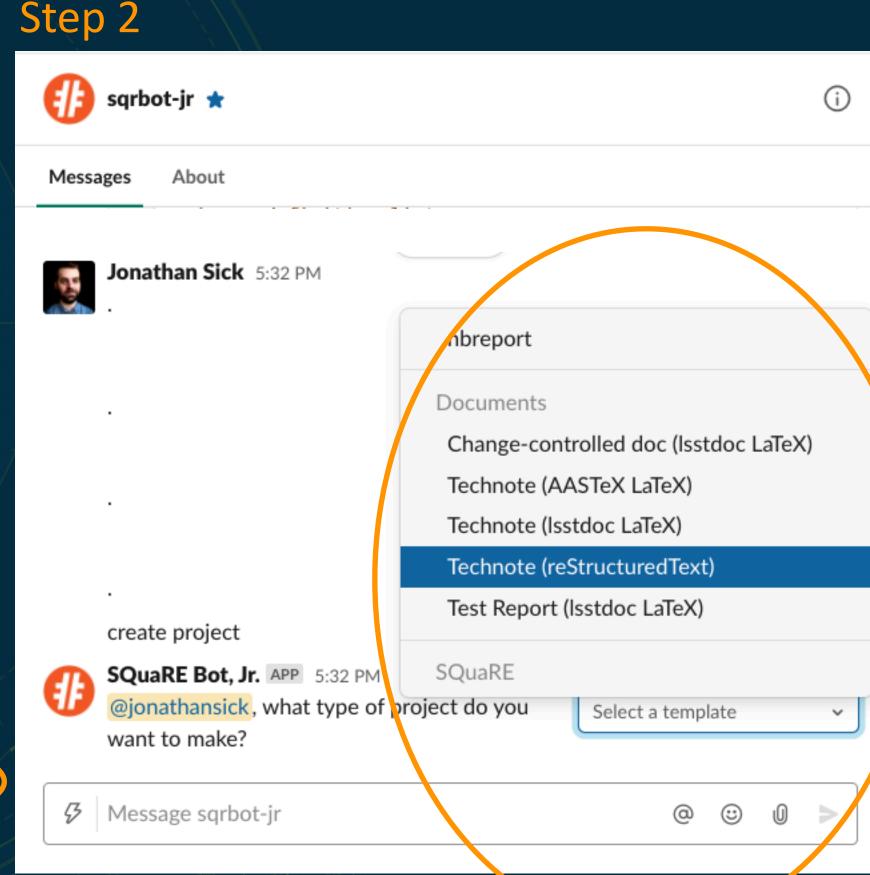




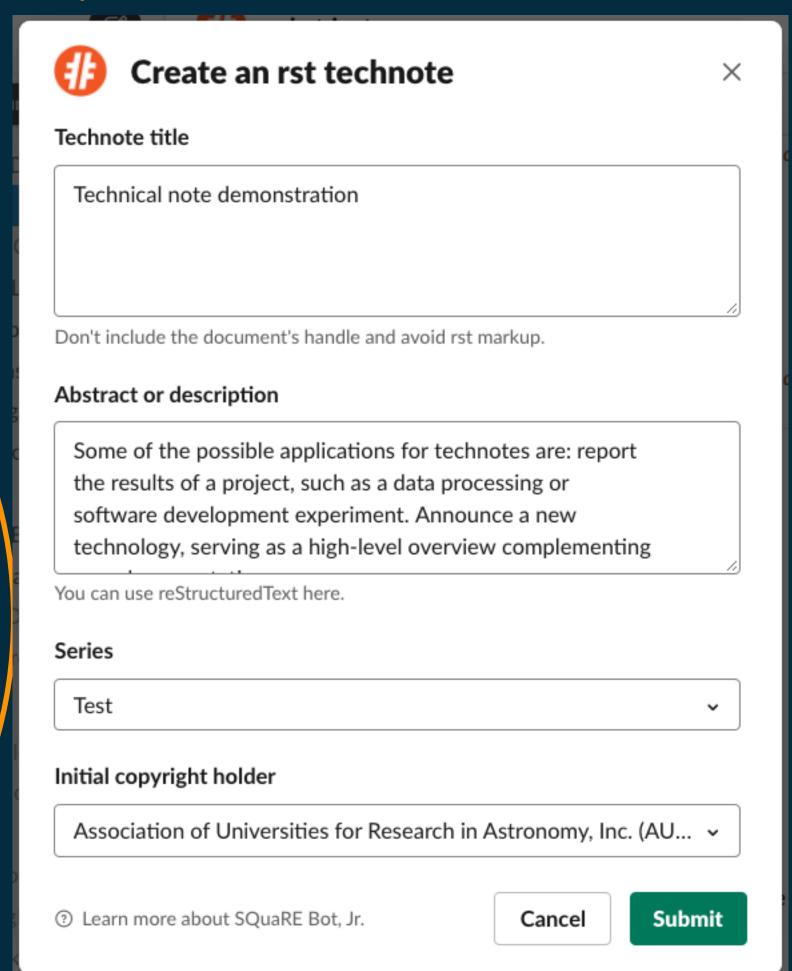


### Let's make a technical note





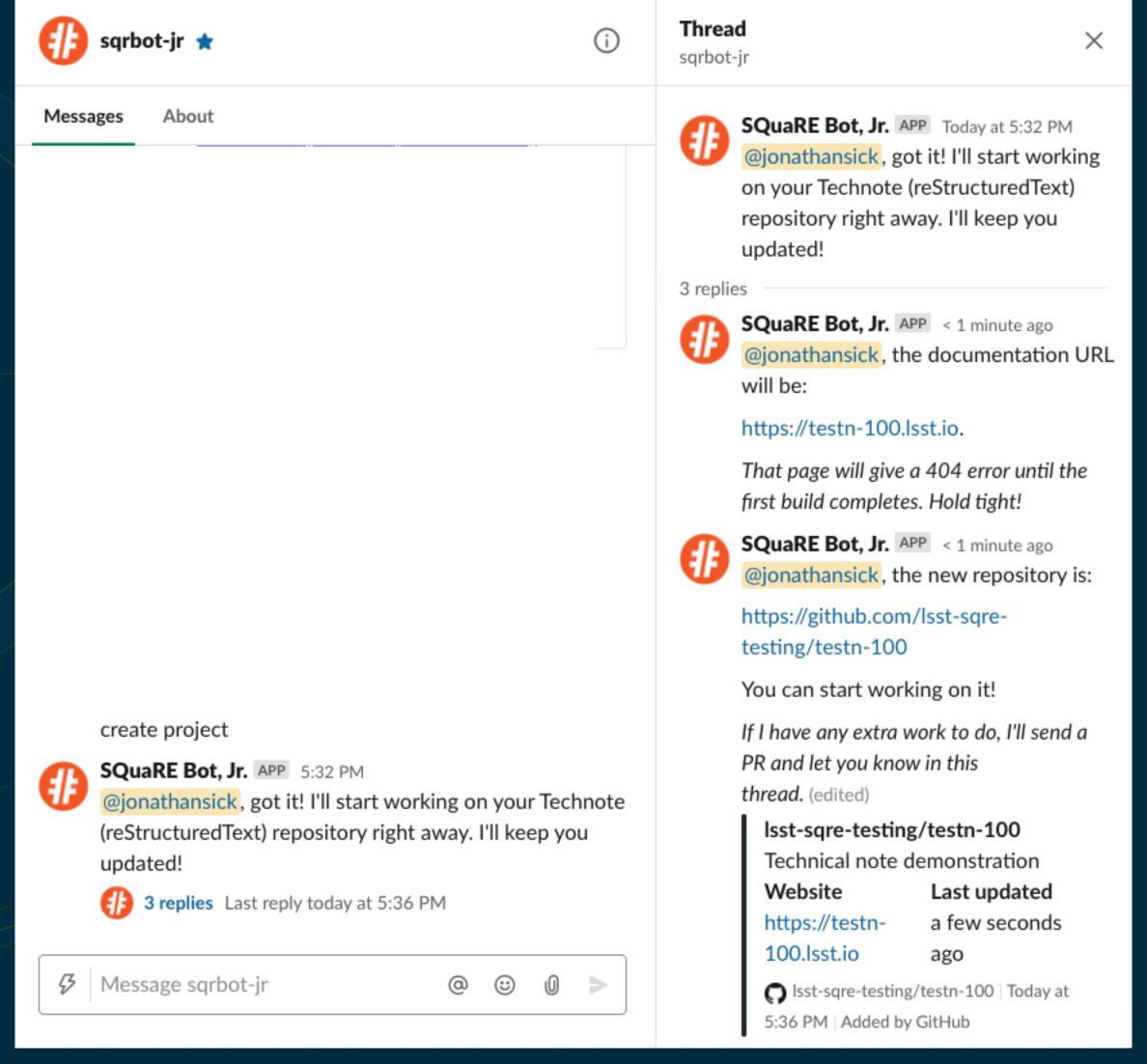
#### Step 3





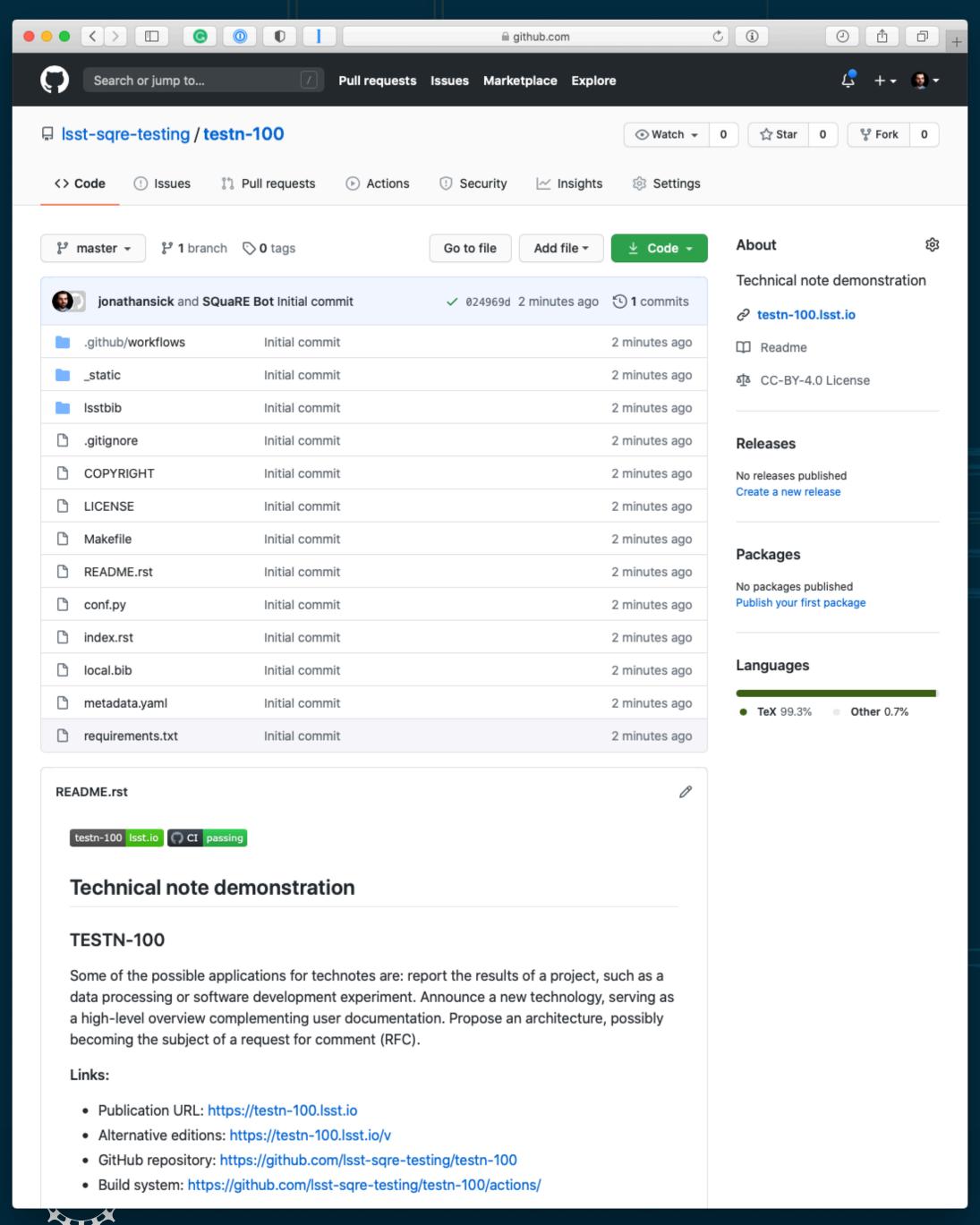


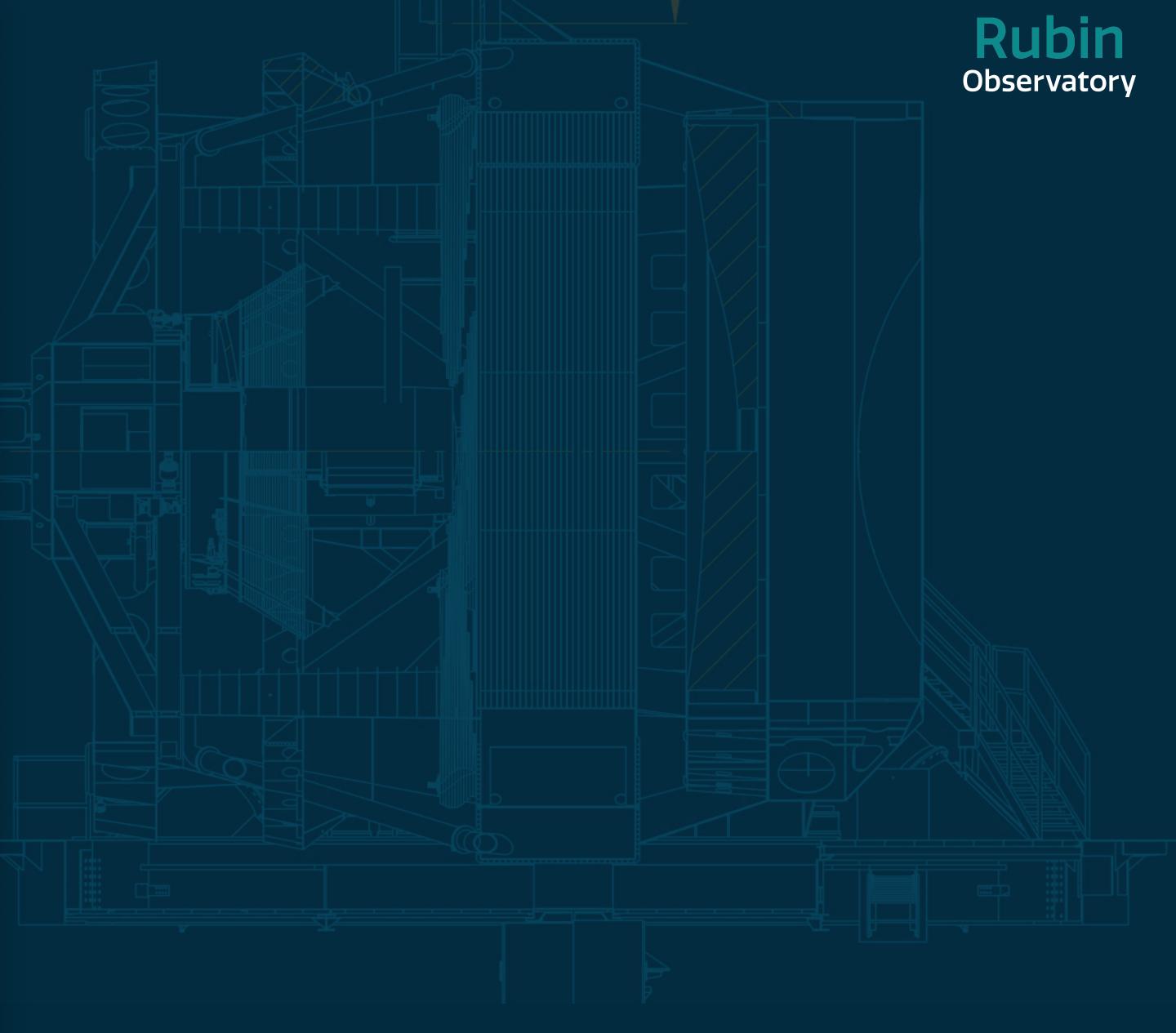
### Let's make a technical note

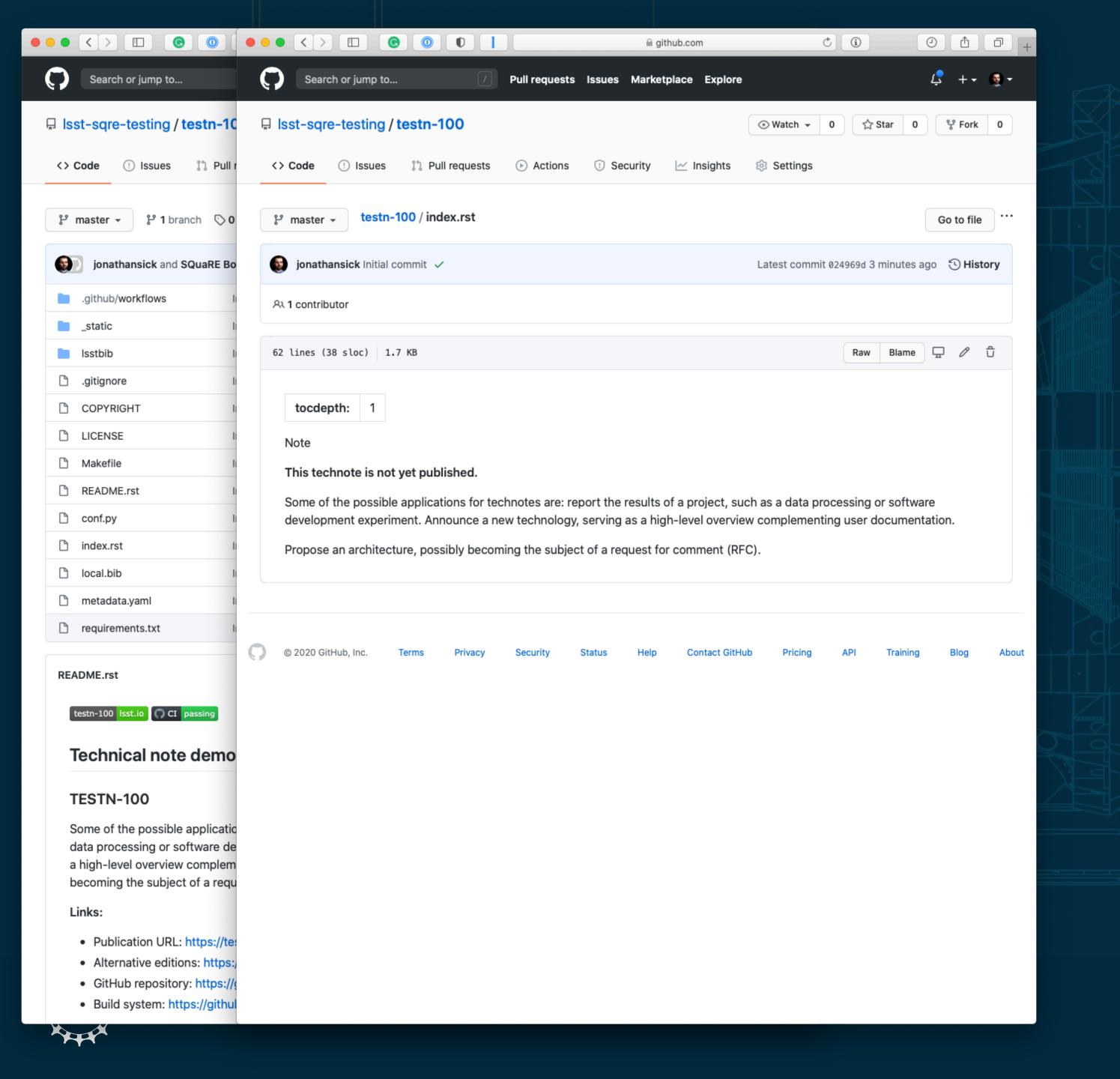






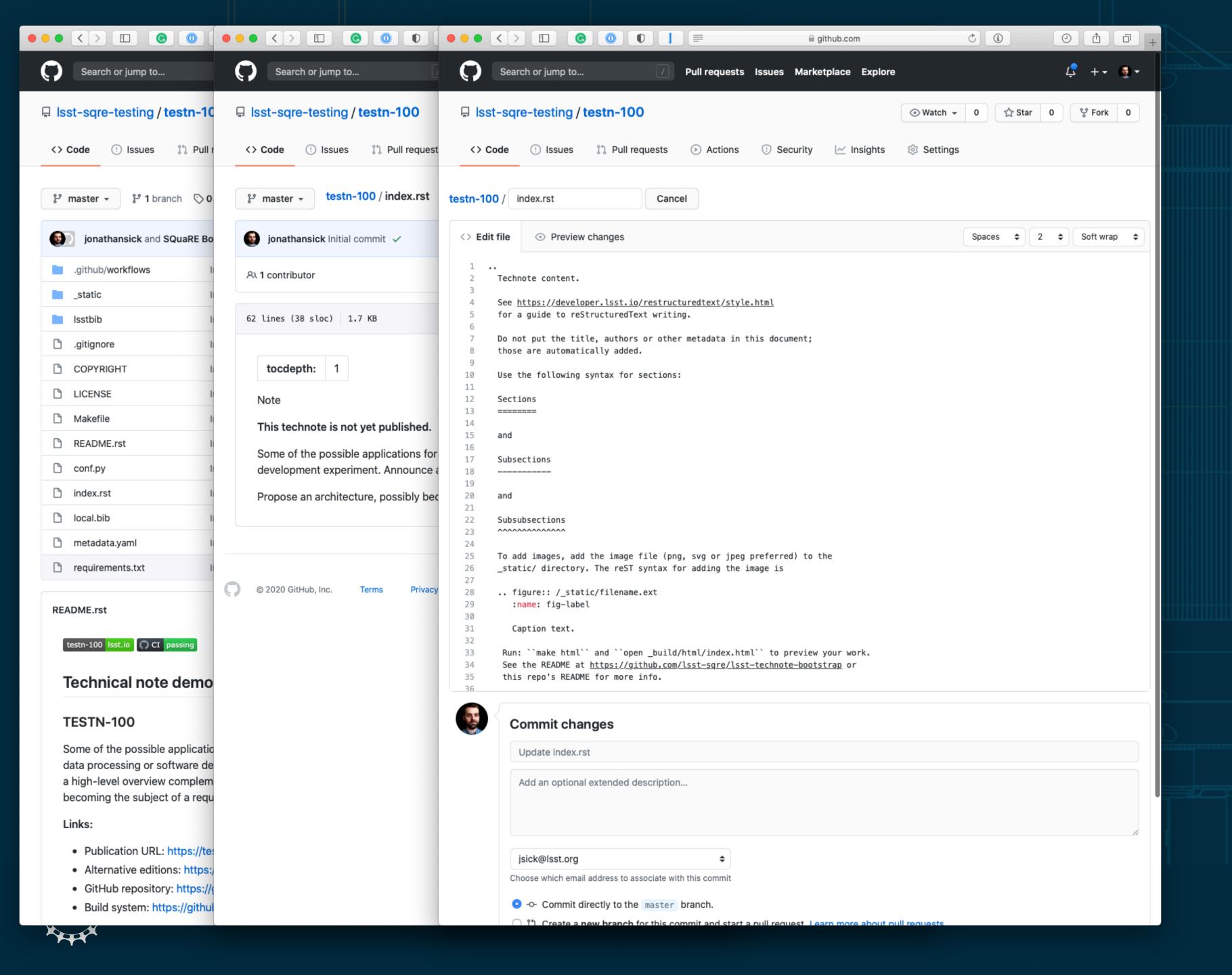






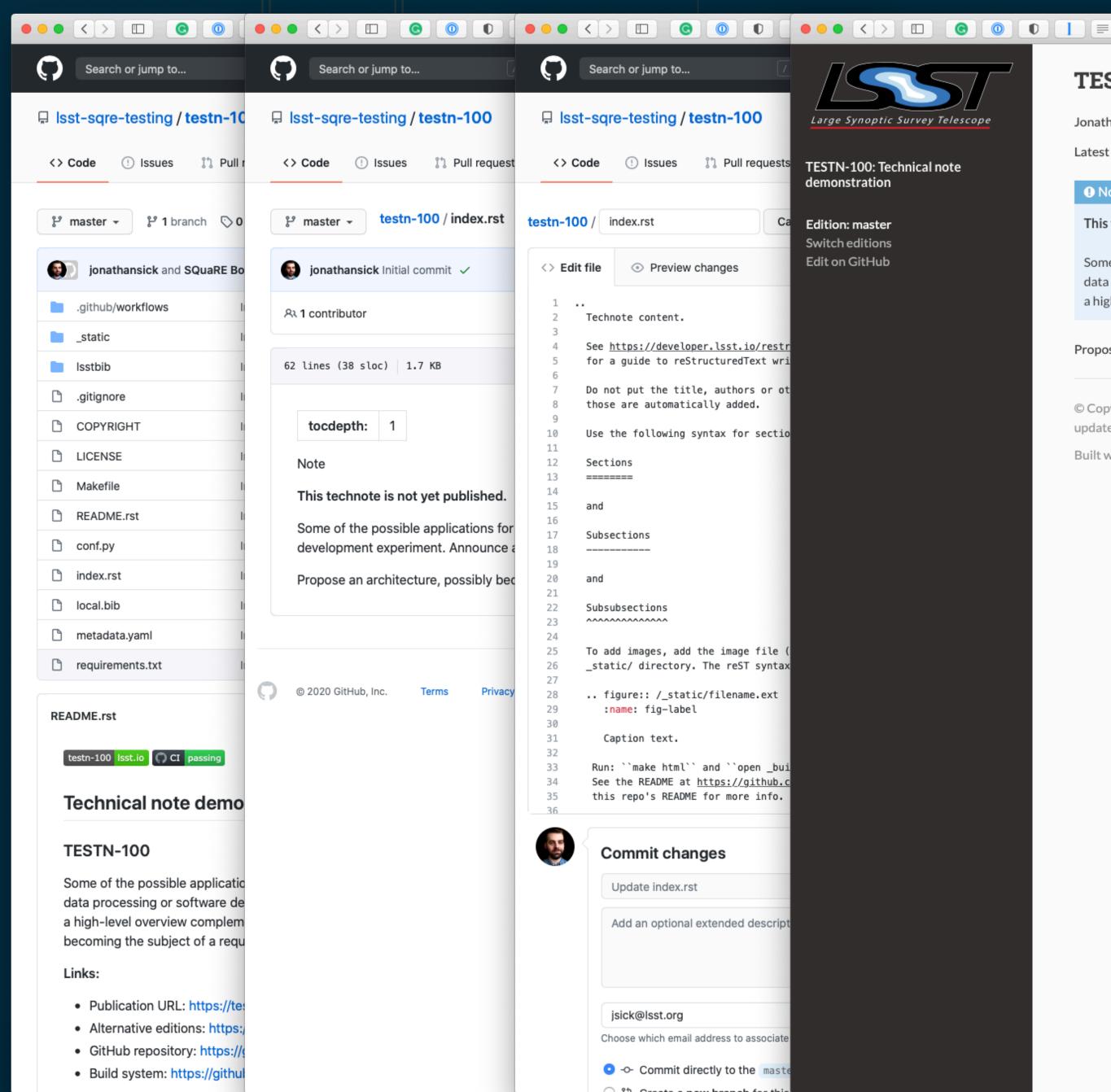












#### **TESTN-100: Technical note demonstration**

etestn-100.lsst.io

(i)

Jonathan Sick

Latest Revision: 2020-10-13

#### • Note

This technote is not yet published.

Some of the possible applications for technotes are: report the results of a project, such as a data processing or software development experiment. Announce a new technology, serving as a high-level overview complementing user documentation.

Propose an architecture, possibly becoming the subject of a request for comment (RFC).

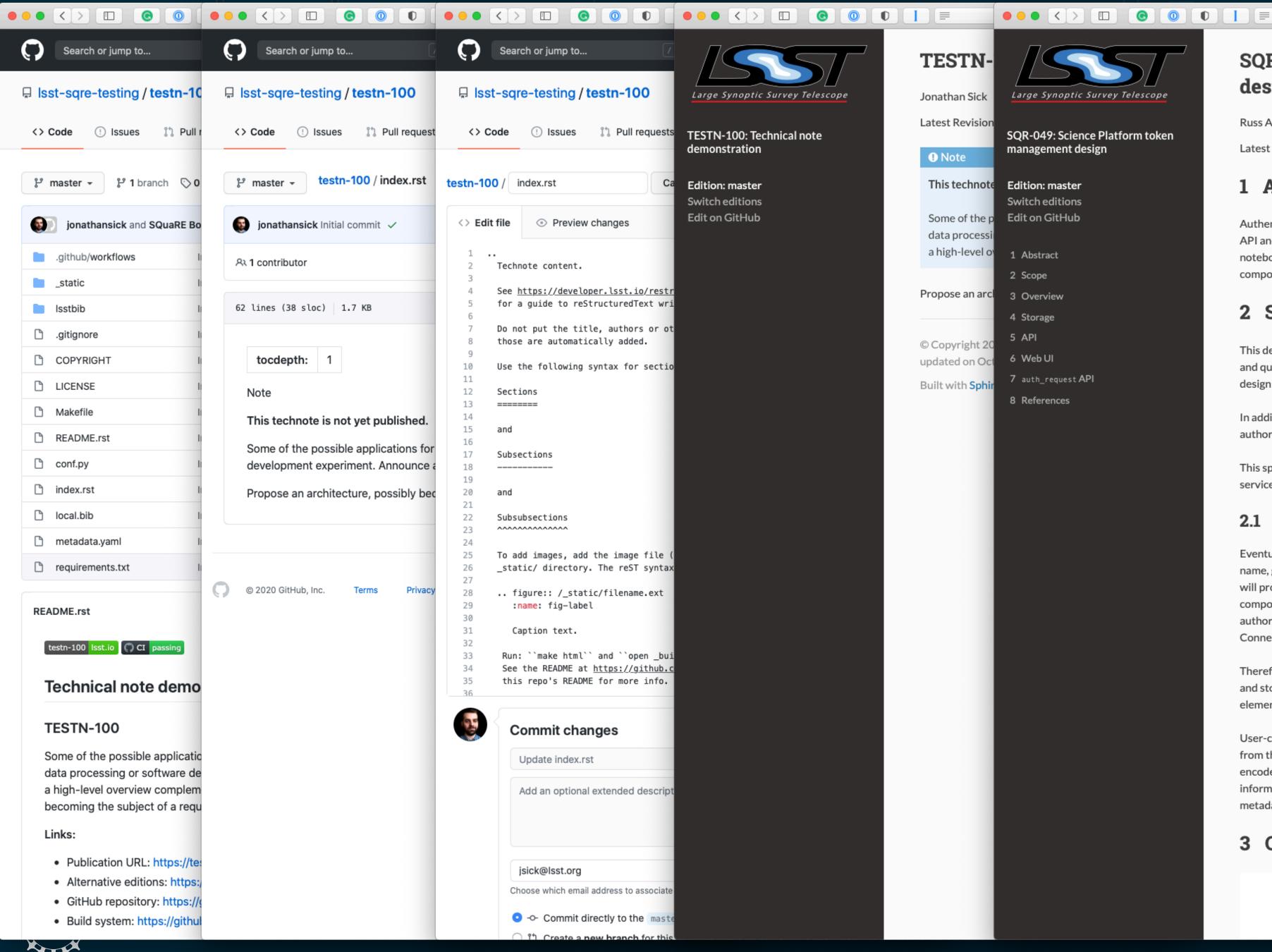
© Copyright 2020, Association of Universities for Research in Astronomy, Inc. (AURA). Last updated on Oct 13, 2020.

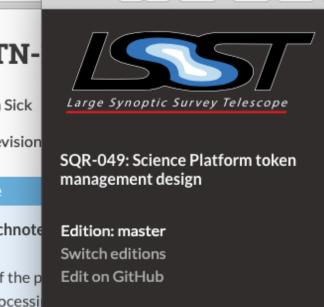
Built with Sphinx using a theme provided by Read the Docs.











1 Abstract

#### **SQR-049: Science Platform token management** design

a sqr-049.lsst.io

(i)

0 0 1

Russ Allbery

Latest Revision: 2020-09-28

#### 1 Abstract %

Authentication tokens will be used by the science platform as web authentication credentials, for API and service calls from outside the Science Platform, and for internal service-to-service and notebook-to-service calls. This document lays out the technical design of the token management component, satisfying the requirements given in SQR-044.

#### 2 Scope

This design covers the token component in isolation. The user management, group management, and quota components will be designed separately. That may result in some changes to this design as the rest of the system is built. If so, this document will be updated accordingly.

In addition to the requirements in SQR-044, see SQR-039 for a discussion of authentication and authorization for the Science Platform.

This specification will be implemented in Gafaelfawr, the authentication and authorization service for the Rubin Science Platform.

#### 2.1 User metadata

Eventually, metadata about the user as opposed to their session or authentication token (full name, group memberships, UID, etc.) will be stored in a separate user management system that will provide an API to retrieve that information given an authentication token. However, that component of the overall identity management system has not yet been built. Instead, authorization is currently reliant on user metadata communicated via OAuth 2.0 or OpenID Connect and encoded in the resulting identity token.

Therefore, as an interim measure, user metadata is associated with each authentication token and stored with it. The token service provides an API to retrieve that metadata. The storage elements and APIs to support this are flagged below and should be considered temporary.

User-created tokens will, temporarily, inherit the user metadata (including group membership) from the session token used to create that user token. This means group membership will be encoded in the session data for that token and the token will have to be reissued to change that information, contrary to the design in SQR-044 and SQR-039. This will be fixed once the user metadata component is available as a separate service.

#### 3 Overview

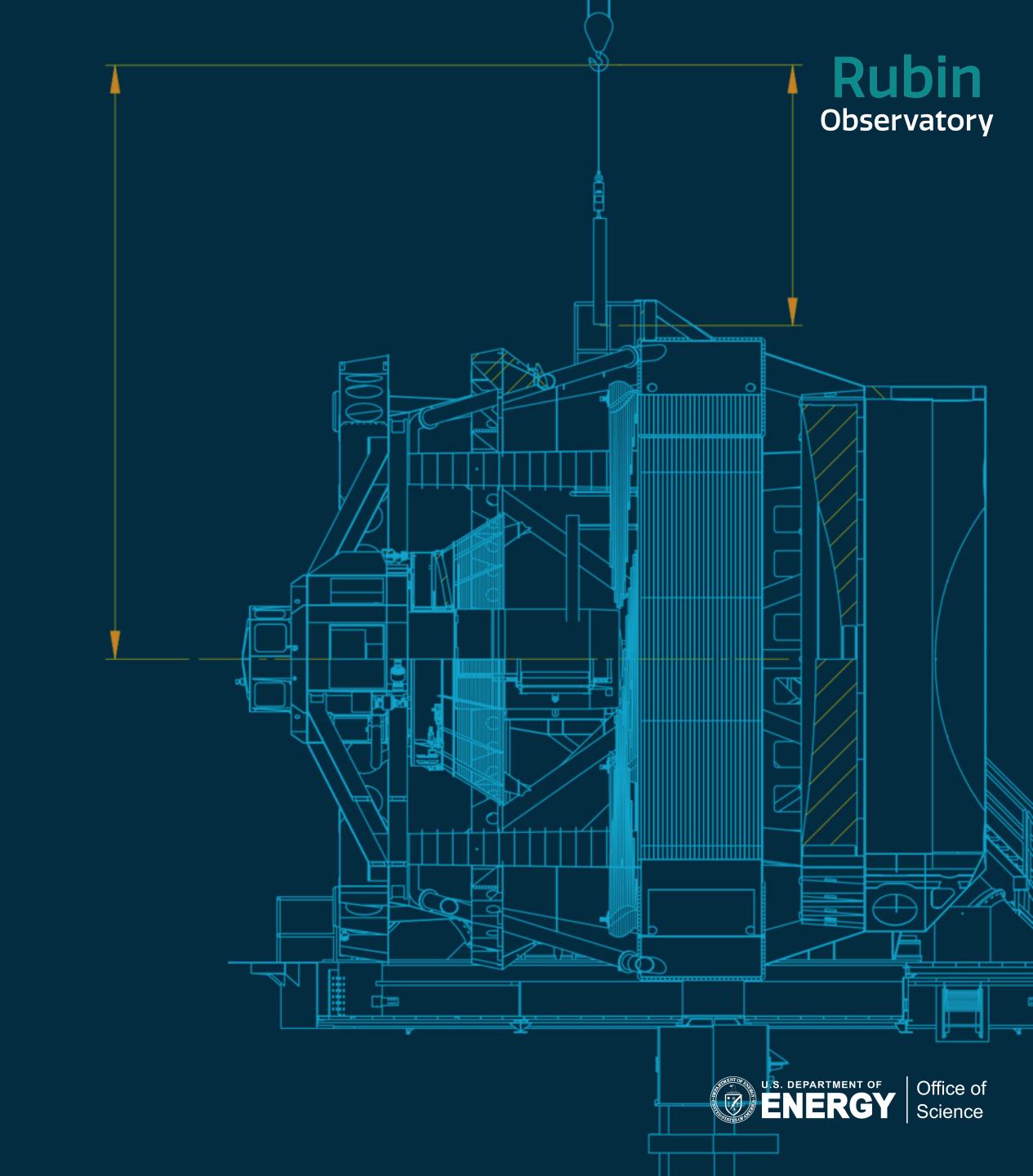


https://developer.lsst.io/restructuredtext/style.html

# ReStructuredText

ReStructuredText is the format we use for writing most types of documentation:

- Python docstrings
- User guides (<u>pipelines.lsst.io</u>, developer.lsst.io, <u>nb.lsst.io</u>)
- Technical notes





# Inline syntax

Bold

\*\*bold\*\*

Italic

\*italic\*

Monospace (inline code)

``monospace``





# Formatting paragraphs

Put a single blank line between paragraphs.

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Proin facilisis pharetra neque, at semper nulla mattis auctor. Proin semper mollis enim eget interdum.

Mauris eleifend eget diam vitae bibendum. Praesent ut aliquet odio, sodales imperdiet nisi. Nam interdum imperdiet tortor sed fringilla. Maecenas efficitur mi sodales nulla commodo rutrum. Ut ornare diam quam, sed commodo turpis aliquam et.



One-sentence per line formatting is strongly recommended for better Git diffs.





# Sectioning

These under/overline styles define each level of section hierarchy:

########## Page title ######### • • • Section heading . . . • • • Subsection heading Subsubsection heading • • • Subsubsection heading

### Page title

#### **Section heading**

Subsection heading





# Linking to sections using the "ref" role

```
Section A
========

See :ref:`sec-b`.

.. _sec-b:

Section B
========

See the :ref:`previous
section <sec-a>`.
```

#### **Section A**

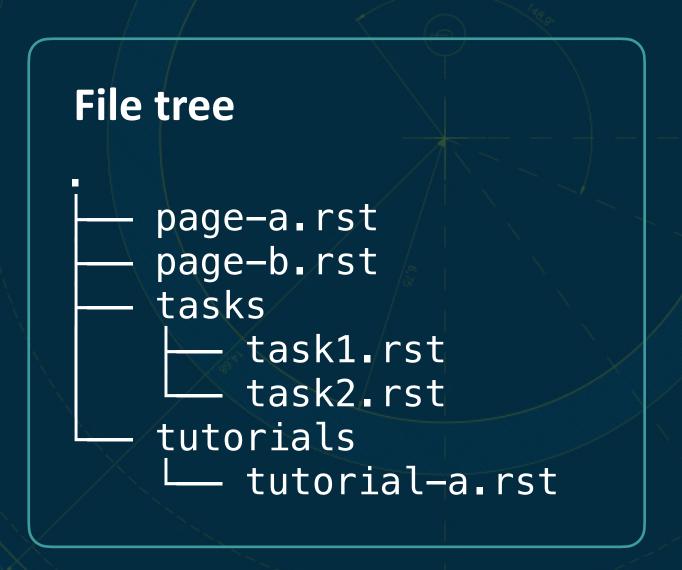
See <u>Section B</u>.

#### Section B

See the <u>previous section</u>.



# Linking to pages using the "doc" role



#### **Content in tutorial-a.rst**

Rendered output of tutorial-a.html

:doc:`../page-a`

:doc:\/page-a\

:doc: this task <../tasks/task1>`

Page A

Page A

this task





# Hyperlinks

`GitHub <https://github.com>`\_.

You can find the code on GitHub\_.

GitHub.

You can find the code on GitHub.





# Externally-defined hyperlinks

```
The `lsst-dm organization`_ on GitHub_.
```

```
.. _lsst-dm organization: https://github.com/lsst-dm
```

.. \_GitHub: https://github.com

The <u>lsst-dm organization</u> on <u>GitHub</u>.





# Multiple labels for externally-defined hyperlinks

```
The `lsst-dm organization`_ on GitHub_. `lsst-dm`_
.. _lsst-dm:
.. _lsst-dm organization: https://github.com/lsst-dm
.. _GitHub: https://github.com
```

The <u>lsst-dm organization</u> on <u>GitHub</u>. <u>lsst-dm</u>





# Link to Python APIs

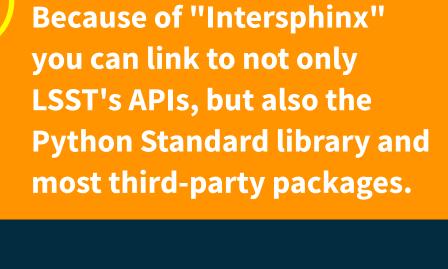
```
Link to a function: `numpy.sin`.
Link to class: `astropy.table.Table`.
Link to a method: `astropy.table.Table.write`.
Link to a builtin: `list`.
```

Link to a function: <u>numpy.sin</u>.

Link to a class: <u>astropy.table.Table</u>.

Link to a method: <u>astropy.table.Table.write</u>.

Link to a builtin: <u>list</u>.







# Link to Python APIs (short forms)

```
Link to a function: `~numpy.sin`.
Link to class: `~astropy.table.Table`.
Link to a method: `~astropy.table.Table.write`.
```

Link to a function: <u>sin</u>.
Link to a class: <u>Table</u>.
Link to a method: <u>write</u>.





# Link to Science Pipelines tasks & configs

:lsst-task:`~lsst.pipe.tasks.calibrate.CalibrateTask`
:lsst-config-field:`~lsst.pipe.tasks.calibrate.CalibrateTask.photoCal`

<u>CalibrateTask</u> <u>photoCal</u>







# Unordered lists

- First item.
- Second item.
- Third item.

Another paragraph for third item.

- Fourth item.



## ReStructuredText

# Ordered lists

- #. First item.
- #. Second item.
- #. Third item.

Another paragraph for third item.

#. Fourth item.

- 1. First item.
- 2. Second item.
- 3. Third item
- Another paragraph for third item.
  - 4. Fourth item.





## Definition lists

Term A

Description of A.

Term B

Description of B:

- nested
- list

Term C
Description of C.

#### Term A

Description of A.

#### **Term B**

Description of B:

- nested
- list

#### Term C

Description of C.





# ReStructuredText Showing code

```
.. code-block:: python
    :emphasize-lines: 2

def hello():
    print('Hello world')

    -or-

.. literalinclude:: example.py
    :languge: python
    :emphasize-lines: 2
```





# Tables

.. list-table:: Slack channels
 :header-rows: 1



See also "csv-table"

- \* Channel
  - Purpose
- \* ``#dm``
  - General Data Management discussion.
- \* ``#dm-docs``
  - Documentation engineering and writing.

Fig. 1 Slack channels

Channel	Purpose
#dm	General Data Management discussion.
#dm-docs	Documentation engineering and writing.

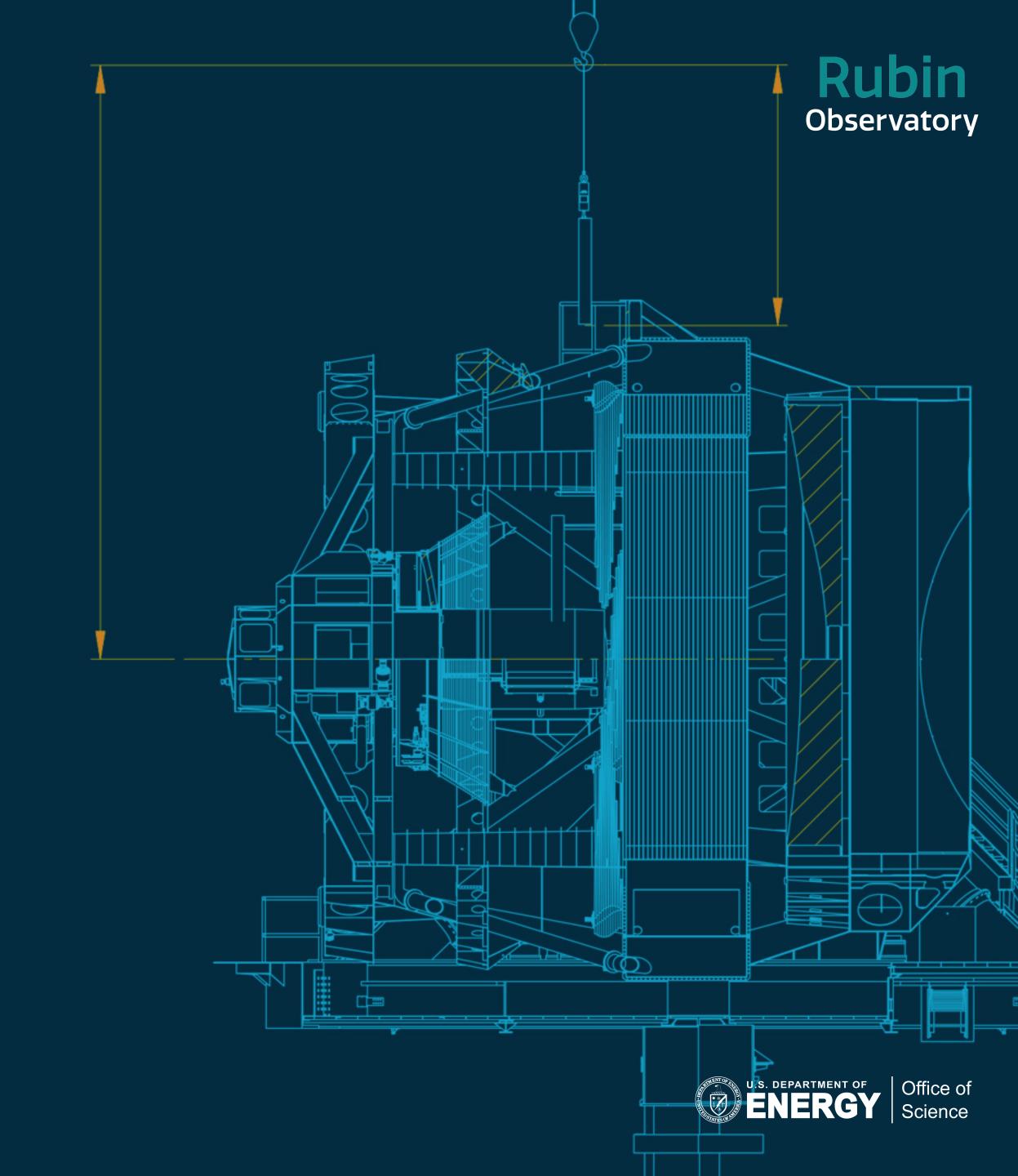




# ReStructuredText Math

```
Write inline expressions: :math:`\sigma_\mathrm{mean} = \sigma / \sqrt{N}`.
Or write block expressions:
.. math:: \sigma_\mathrm{mean} = \frac{\sigma}{\sqrt{N}}
    :label: sigma
:eq:`Link to equation <sigma>`.
```

# Writing docs for Science Pipelines

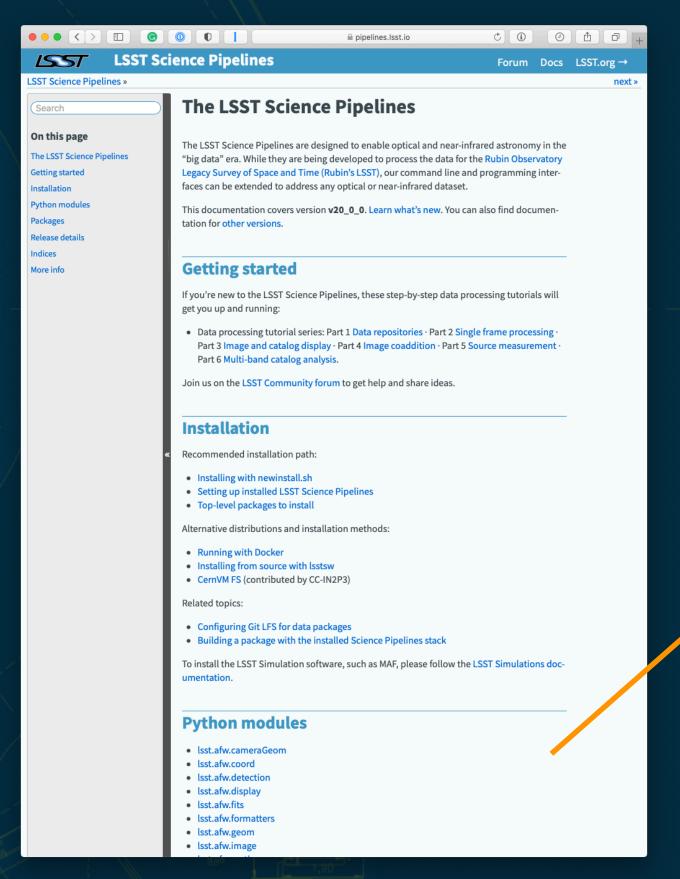




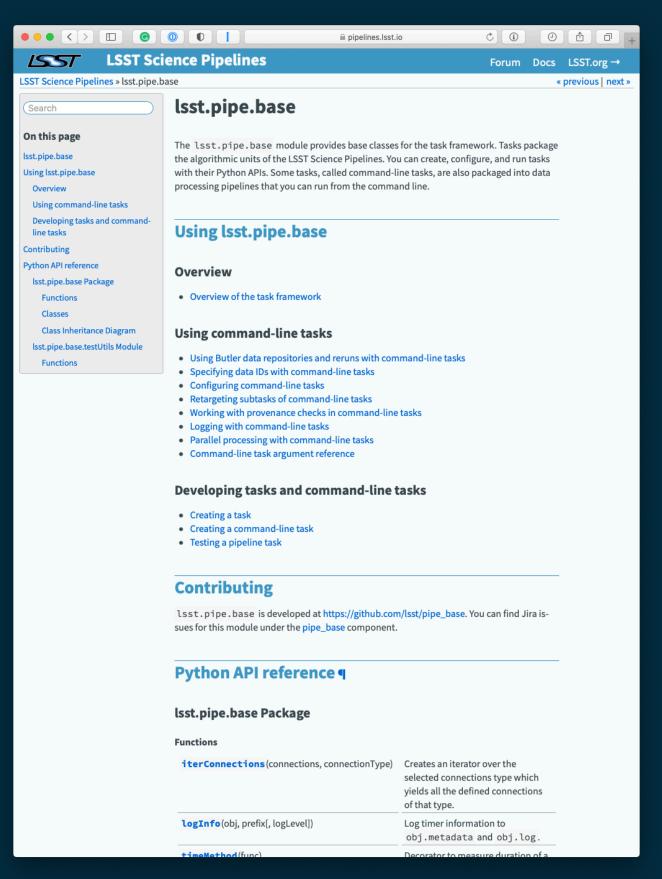
#### Science Pipelines documentation

The Science Pipelines documentation project (pipelines.lsst.io) is exceptional because it is built from multiple source repositories:

github.com/lsst/pipelines\_lsst\_io



doc/ directories of individual packages



Further reading: https://developer.lsst.io/stack/documentation-system-overview.html



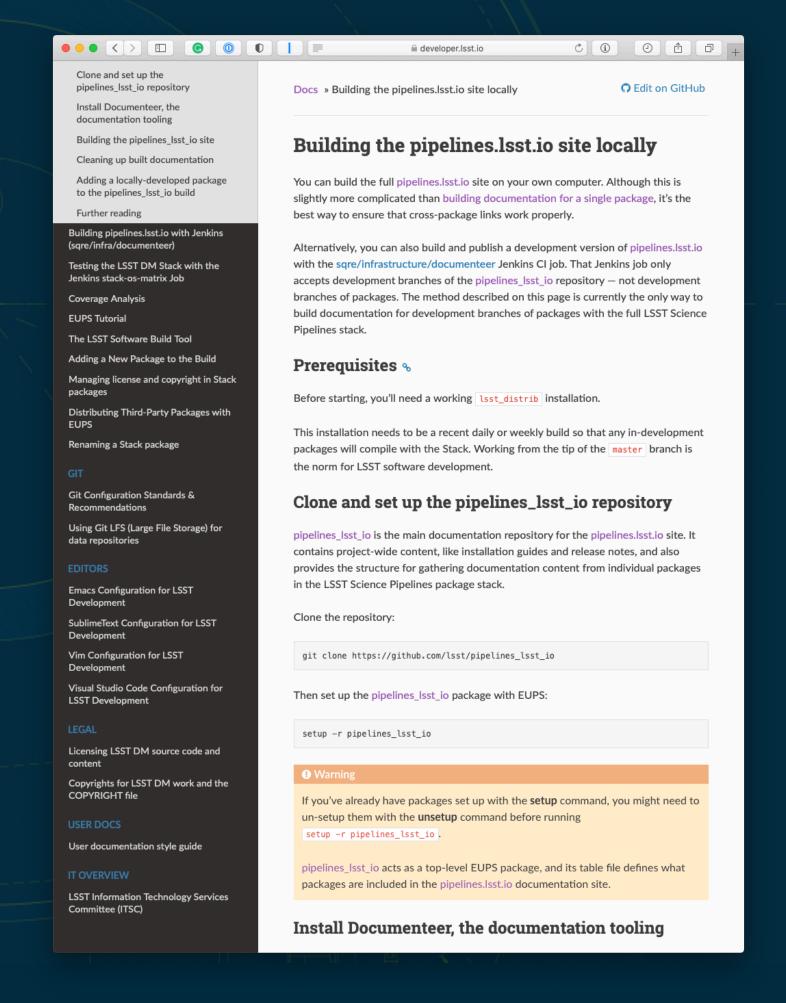


#### Rubin Observatory

# Building Science Pipelines documentation

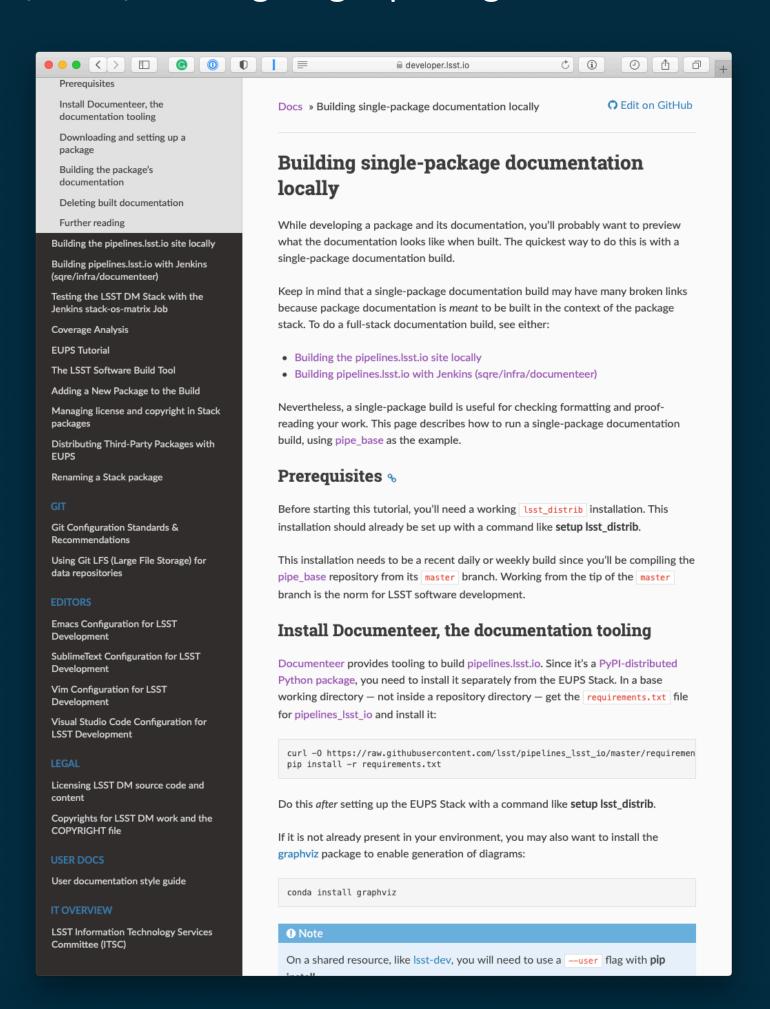
A https://developer.lsst.io/stack/building-pipelines-lsst-io-locally.html

Mode 1: Building the whole documentation project.



The https://developer.lsst.io/stack/building-single-package-docs.html

Mode 2: Building single package documentation for tight-loop development.









#### Science Pipelines documentation

# The doc/ directory of a package

https://developer.lsst.io/stack/module-homepage-topic-type.html

https://developer.lsst.io/stack/argparse-script-topic-type.html

https://developer.lsst.io/stack/task-topic-type.html





# Adding a documentation page What type of documentation is it?

#### **Tutorials**

- Learning-oriented
- For "newcomers" to get started
- A self-contained lesson that the reader performs
- Provides an example

#### **Concept guides**

- Understanding-oriented
- Explains
- Provides background & context

#### How-to guides

- Goal-oriented
- Shows how to solve a specific problem
- Series of steps

#### Reference guides

- Information-oriented
- Accurate and complete
- Examples:
  - Numpydoc, Doxygen "docstrings"
  - Task reference pages

These types can be fractal (an example in a API reference).

Often just link from one page to another (we're on the web).

Credit: https://www.divio.com/en/blog/documentation/34





# Adding a documentation page Elements of a good documentation page

#### Self-contained

No previous page, no next page. But lives within the site's web.

#### Specific and limited purpose

A topic (i.e., a page) should have a specific, well-defined purpose.

#### Conform to type

A type is like a template.

#### Link richly

Let the reader forage for information. Think of Wikipedia.

Based on "Every Page is Page One" by Mark Baker

#### Establish context

Use the first paragraph to establish the topic's purpose and its relationships to other topics.

#### Assume the reader is qualified

Link to introductory topics, don't repeat introductory concepts.

#### Stay on one level

Don't evolve level of detail like a narrative.





#### Adding a documentation page

- Create a page (rst file) in the module documentation directory or a subdirectory.
- 2. Add that page to the "toctree" in the parent index.rst file.

```
############
                                 lsst.example
                                 #############
                                 .. _lsst.example-using:
doc
                                 Using lsst.example
     SConscript
     conf.py
                                 .. toctree::
                                    :maxdepth: 1
     doxygen.conf.in
     index.rst
                                   howto-get-butler-dataset
     lsst.example
          index.rst
          howto-get-butler-dataset.rst
      scripts
          tasks
     manifest.yaml
```

doc/lsst.example/index.rst

.. py:currentmodule:: lsst.example

.. \_lsst.example:



#### Adding a documentation page

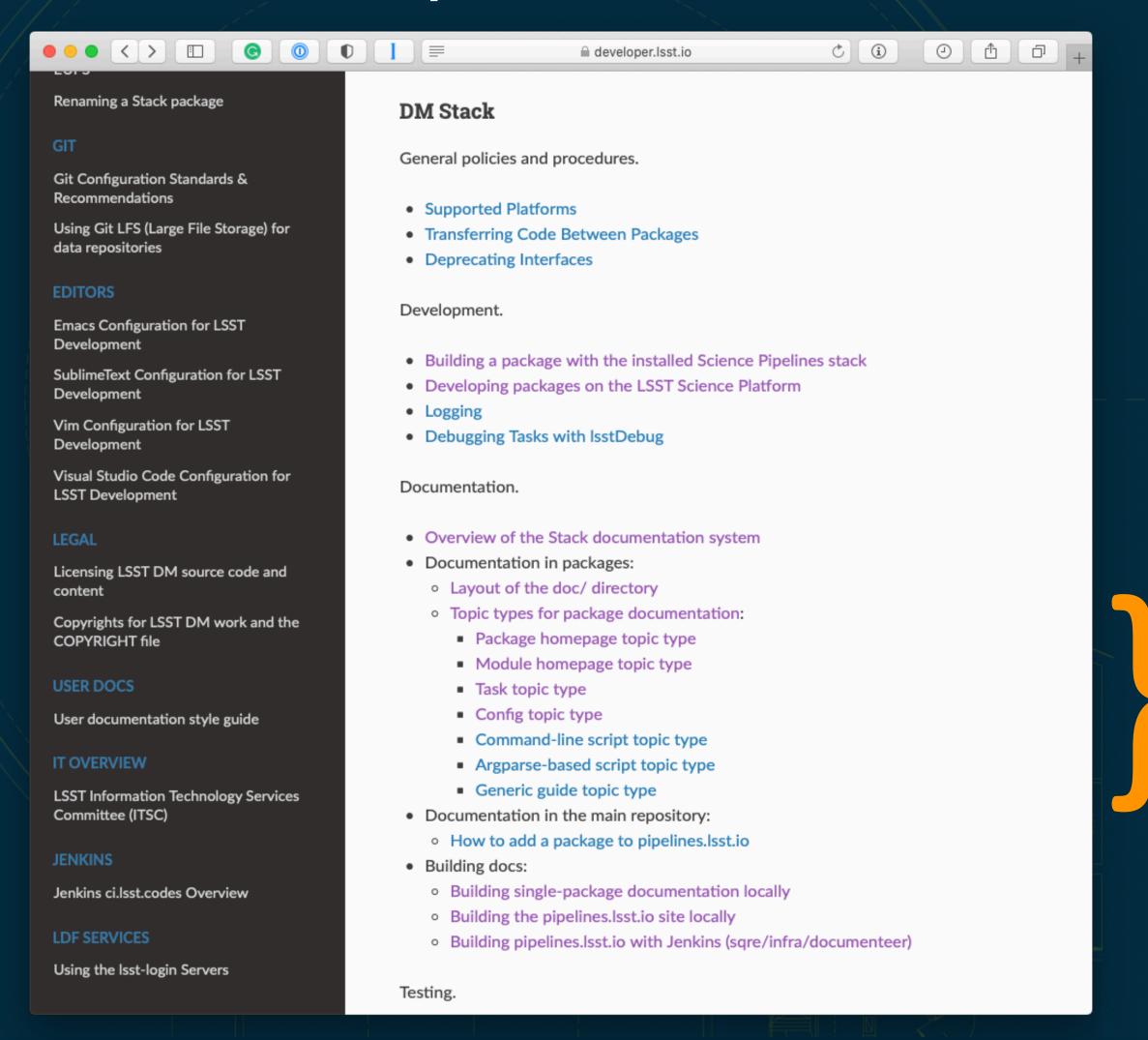
In any documentation page you write, the first paragraph has two roles:

- 1. State what the reader will learn from the page.
- 2. Establish the context of this doc, usually by linking to overviews and related docs.





#### Science Pipelines documentation templates

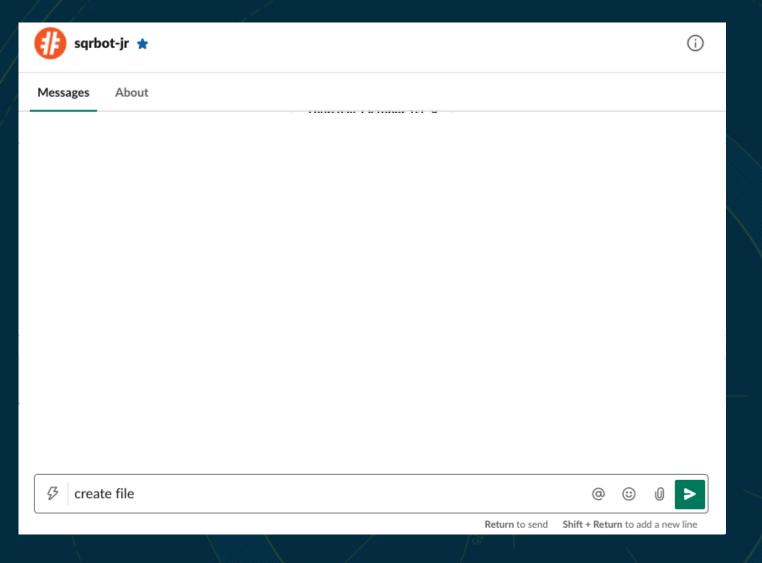


- Templates give the documentation consistency, which is important to readers' success.
- We have a number of templates already, more will be added as we design the types of documentation content we need.

Page templates (topic types in technical writing jargon) are listed in the Developer Guide.



#### Science Pipelines documentation templates

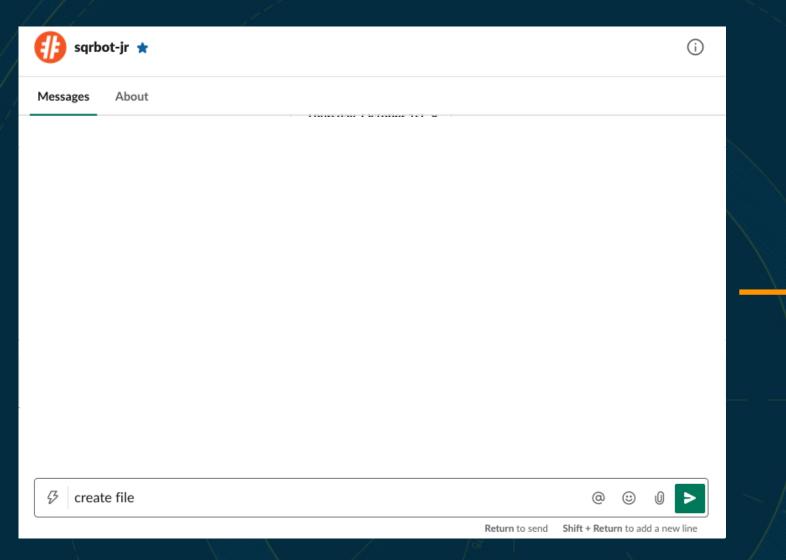


Direct message @sqrbot-jr in Slack to create a new file from a template.

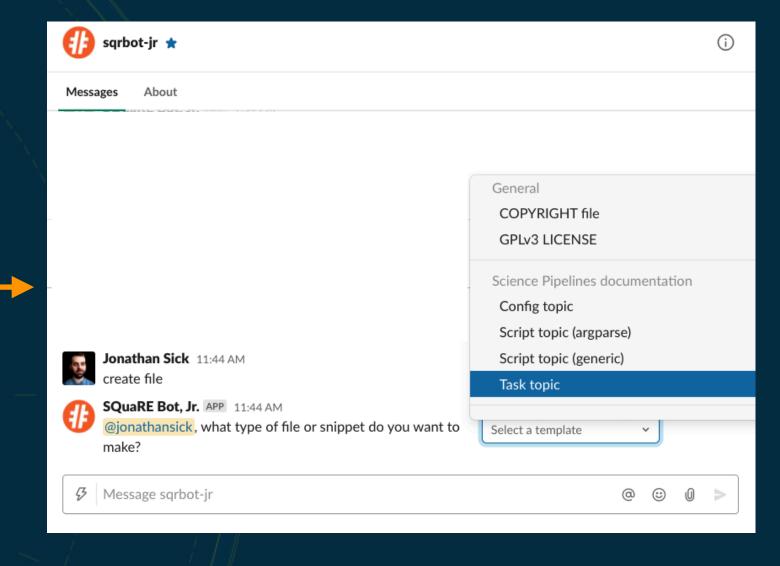




#### Science Pipelines documentation templates



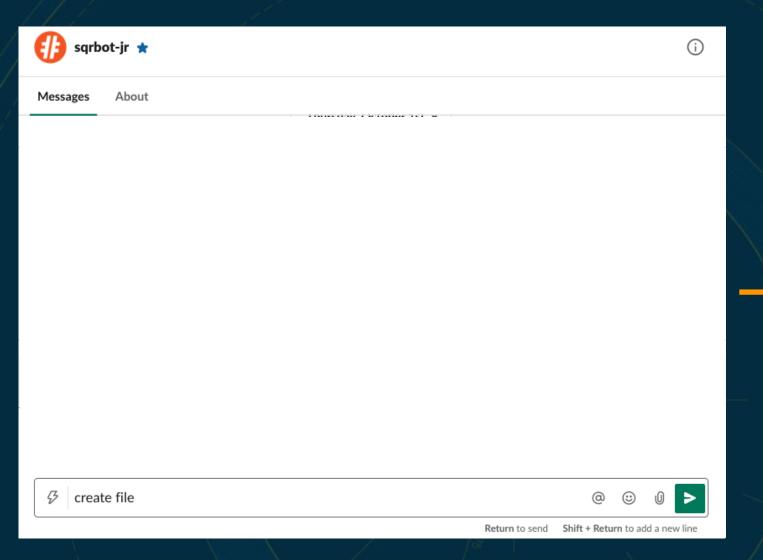
Direct message @sqrbot-jr in Slack to create a new file from a template.



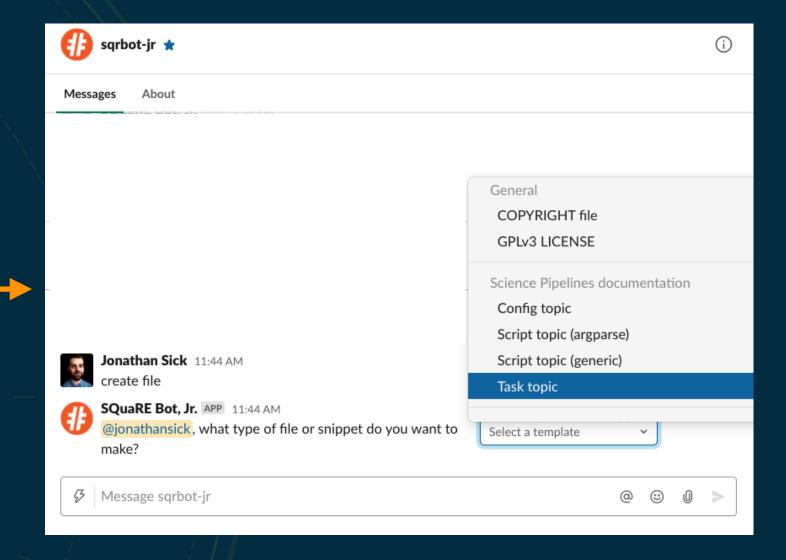


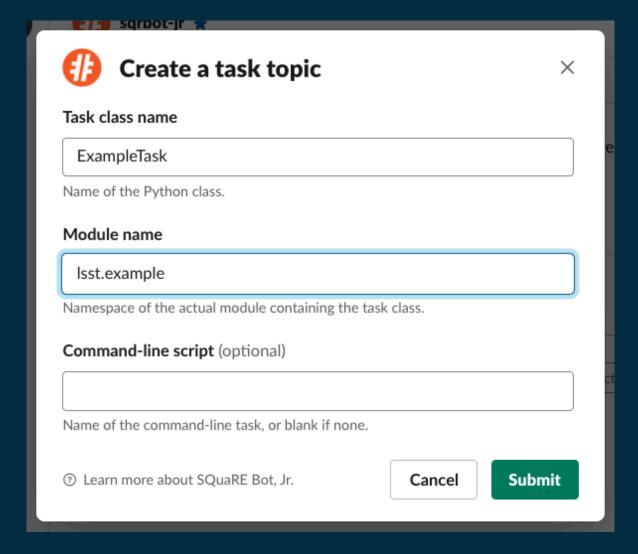
#### Rubin Observatory

#### Science Pipelines documentation templates



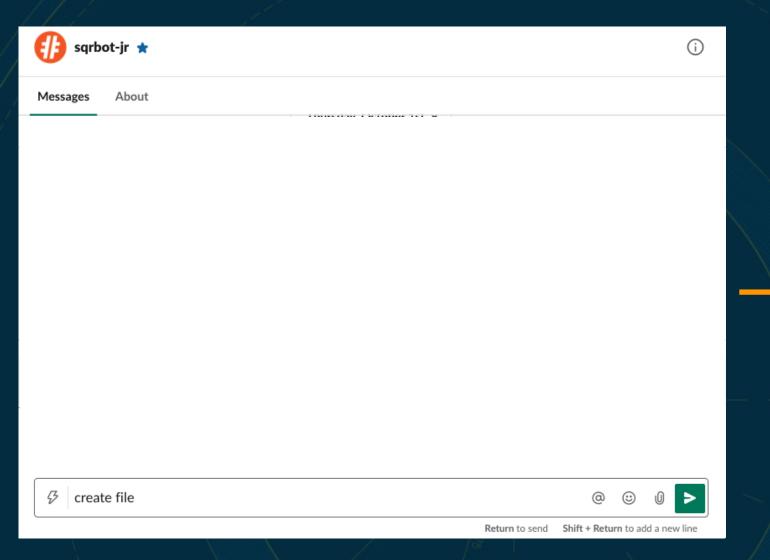
Direct message @sqrbot-jr in Slack to create a new file from a template.



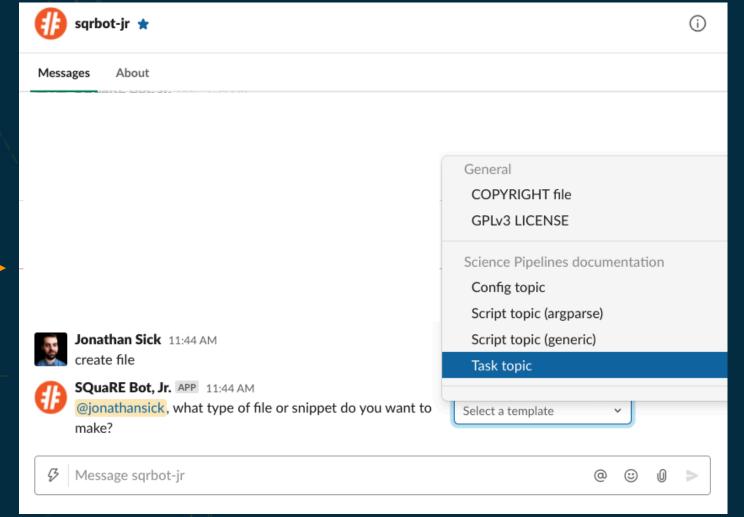


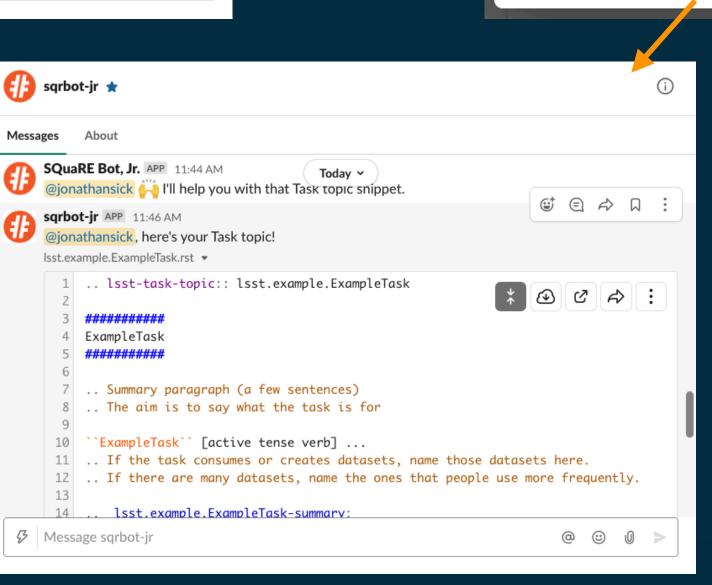
#### Rubin Observatory

#### Science Pipelines documentation templates



Direct message @sqrbot-jr in Slack to create a new file from a template.









Create a task topic

Namespace of the actual module containing the task class.

Name of the command-line task, or blank if none.

Task class name

ExampleTask

Module name

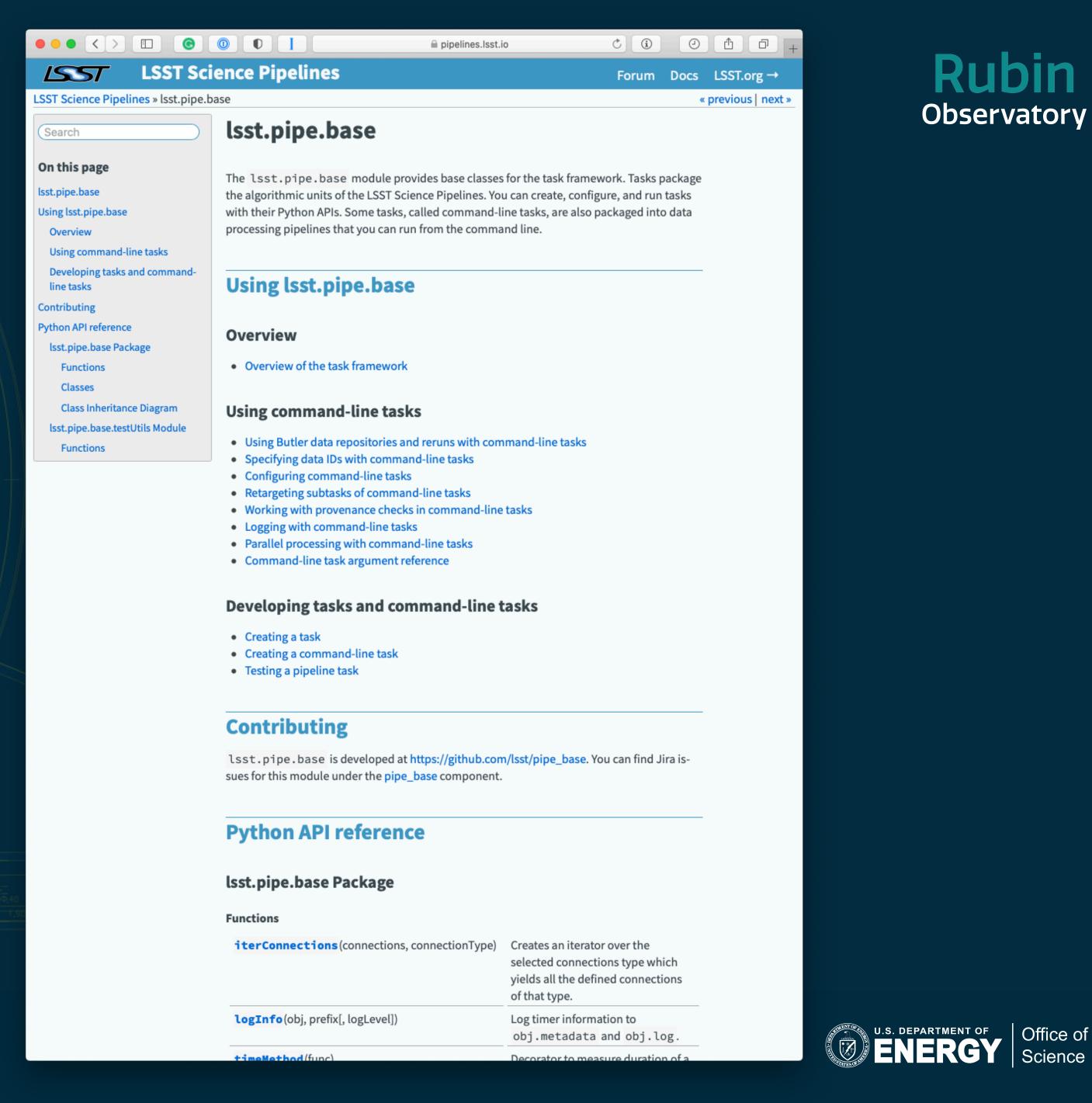
Isst.example

Name of the Python class.

Command-line script (optional)

Learn more about SQuaRE Bot, Jr.

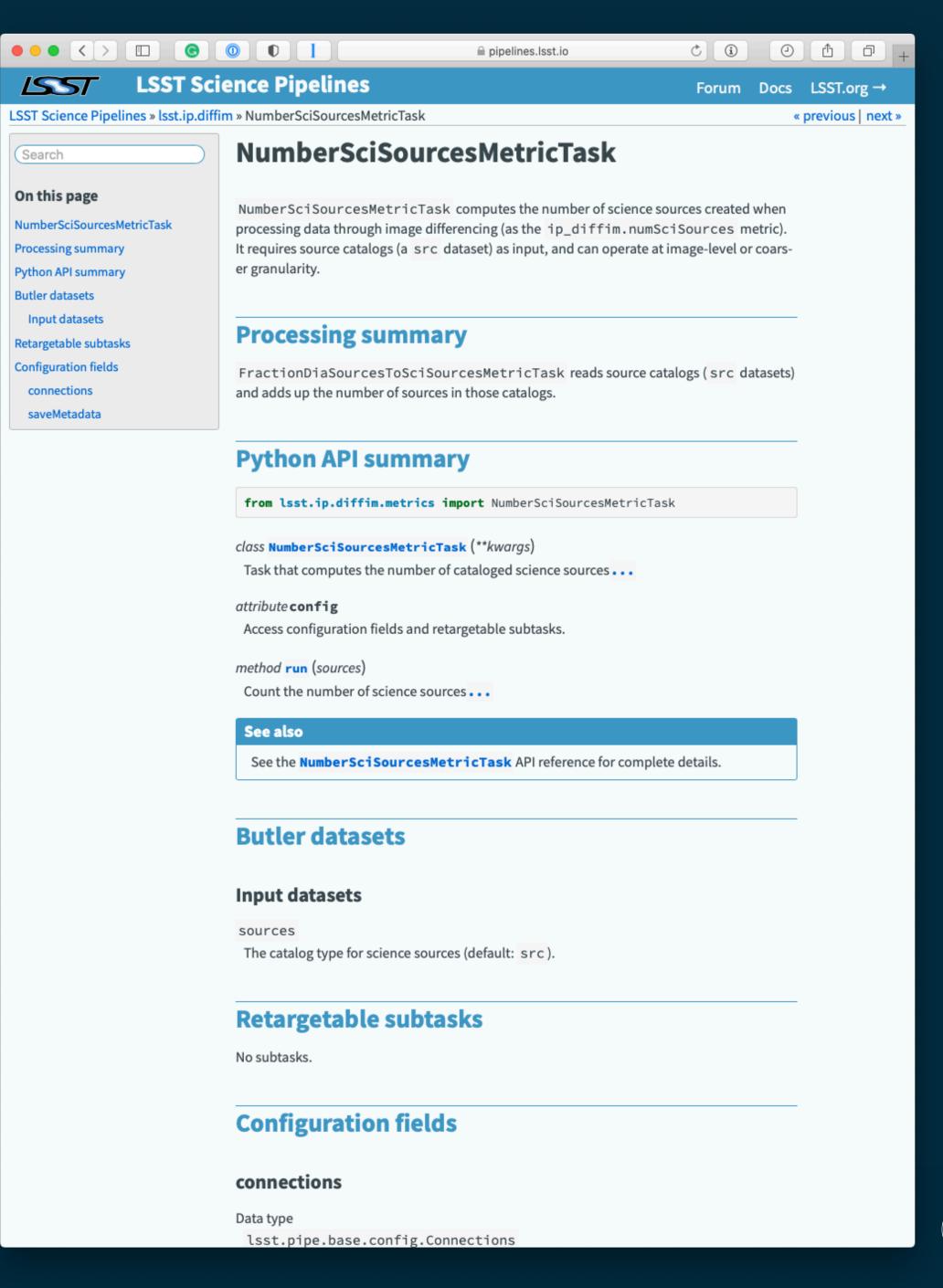
# Module homepage topic type







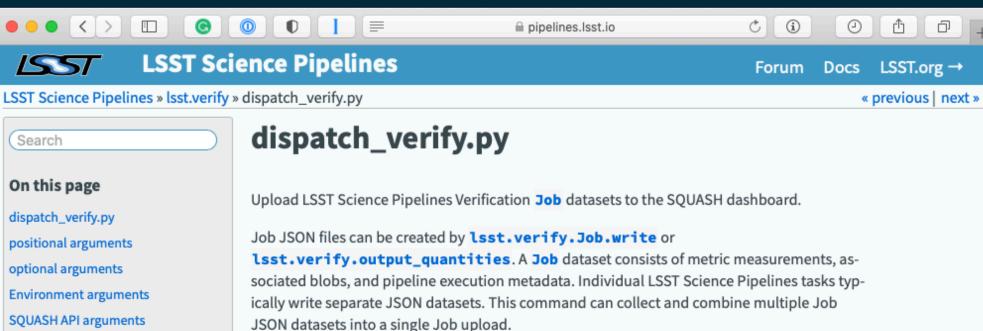
# Task topic type







#### Script topic type





U.S. DEPARTMENT OF ENERGY Science

« previous | next »

#### Configuration

dispatch\_verify.py is configurable from both the command line and environment variables. See the argument documenation for environment variable equivalents. Command line settings override environment variable configuration.

#### Metadata and environment

dispatch\_verify.py can enrich Verification Job metadata with information from the environment. Currently dispatch\_verify.py supports the Jenkins CI and the LSST Data Facility (LDF) execution environments.

In the Jenkins CI execution environment ( --env=jenkins ) the following environment vari-

- BUILD\_ID: ID in the CI system
- BUILD\_URL: CI page with information about the build
- PRODUCT: the name of the product built, e.g. 'validate\_drp'
- dataset: the name of the dataset processed, e.g. 'validation\_data\_cfht'
- label: the name of the platform where it runs

If --lsstsw is used, additional Git branch information is included with Science Pipelines package metadata.

In the LSST Data Facility execution environment ( --env=ldf) the following environment variables are consumed:

- DATASET: the name of the dataset processed, e.g 'HSC RC2'
- DATASET\_REPO\_URL: a reference URL with information about the dataset
- RUN\_ID: ID of the run in the LDF environment
- RUN\_ID\_URL: a reference URL with information about the run
- VERSION\_TAG: the version tag of the LSST software used, e.g. 'w\_2018\_18'

Note: currently it is not possible to gather Science Pipelines package metadata in the LDF environment, thus if --env=ldf is used --ignore-lsstsw is aslo used by default in this environment.

```
usage: dispatch_verify.py [-h] [--test] [--write PATH] [--show]
                             -ignore-blobs] [--env {jenkins,ldf}]
                            --lsstsw PATH] [--package-repos [PATH [PATH ...]]]
                           [--ignore-lsstsw] [--url URL] [--user USER]
                            --password PASSWORD]
                          json [json ...]
```

More information is available at https://pipelines.lsst.io.

positional arguments

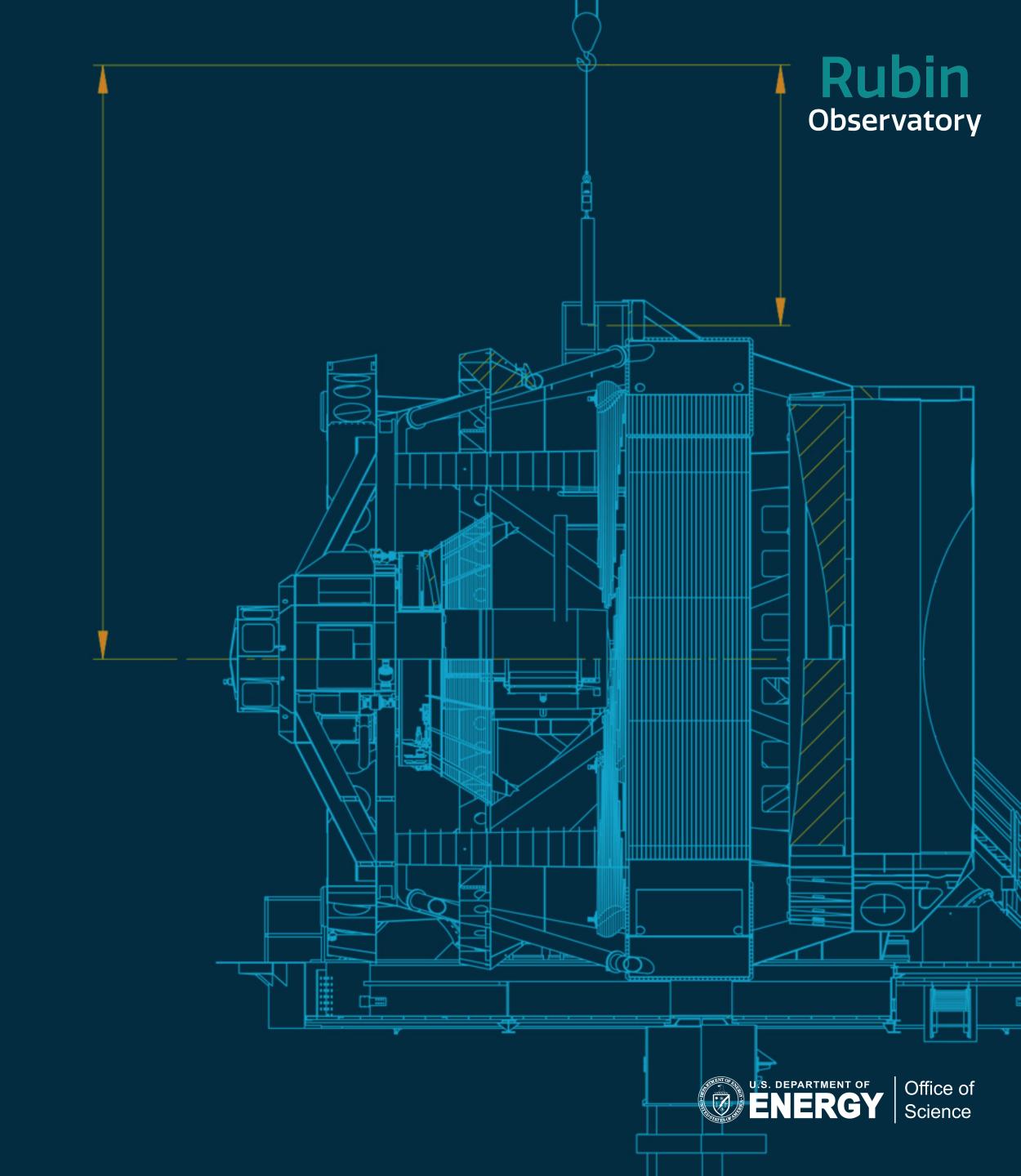


https://developer.lsst.io/python/numpydoc.html

# Python docstrings

The docstrings in Python code are compiled into the API reference sections of software documentation guides, such as pipelines.lsst.io.

Following the docstring format is important for documentation builds.



#### Rubin Observatory

# Python docstrings

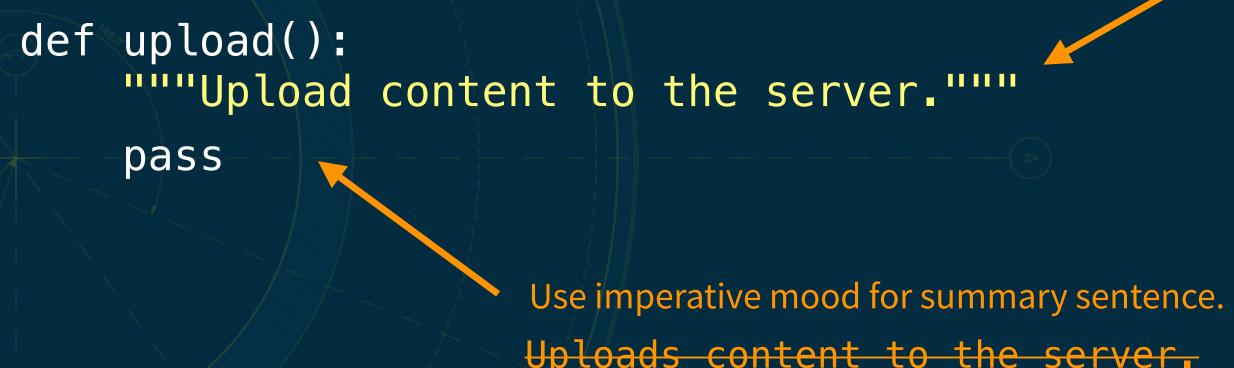
# The basics

```
def upload():
    pass
```



#### Rubin Observatory

# The basics



Start and end the docstring with three double quotes. If docstring spans multiple lines put closing quotes on their own line.

Wrap after the 79th character column.



# Function/method: Parameters

```
def upload(body):
"""Upload content to the server.

Parameters

Dody: Do
```

For details: https://developer.lsst.io/python/numpydoc.html#parameters





# Function/method: Parameters

```
def upload(body, contentType='application/octet-stream'):
    """Upload content to the server.

Parameters
-----
body: `bytes`
    The content to upload, already encoded as bytes.
contentType: `str`, optional
    The media type of the ``body``. Common types:

    ``application/octet-stream``
        A binary file (default).
    ``application/text``
        Text content.
    ``application/json`
        A JSON-formatted document.
""""
pass
```

For details: https://developer.lsst.io/python/numpydoc.html#parameters





# Function/method: Returns

```
def upload(body, contentType='application/octet-stream'):
    """Upload content to the server.
    Parameters
    Returns
    url : `str`
        The canonical URL where the content can be accessed.
    шшп
    pass
```





# Function/method: Raises (exceptions)

```
def upload(body, contentType='application/octet-stream'):
    """Upload content to the server.
    Parameters
    Returns
    Raises
    lsst.example.UploadError
        Raised if a connection cannot be made with the server, or if the
        server returns a 500 error.
    lsst.example.AuthError
        Raised if the client cannot be authenticated or is not
        authorized.
    pass
```





# Class attribute docstrings

```
class Point:
    """A cartesian coordinate.
    Parameters
   x : `float`
        The ``x``-axis coordinate.
    y: `float`
        The 'y' -axis coordinate.
   .....
   x = None
   """The ``x``-axis coordinate (`float`)."""
   y = None
   """The ``y``-axis coordinate (`float`)."""
   def __init__(self, x, y):
       self.x = x
       self_y = y
```



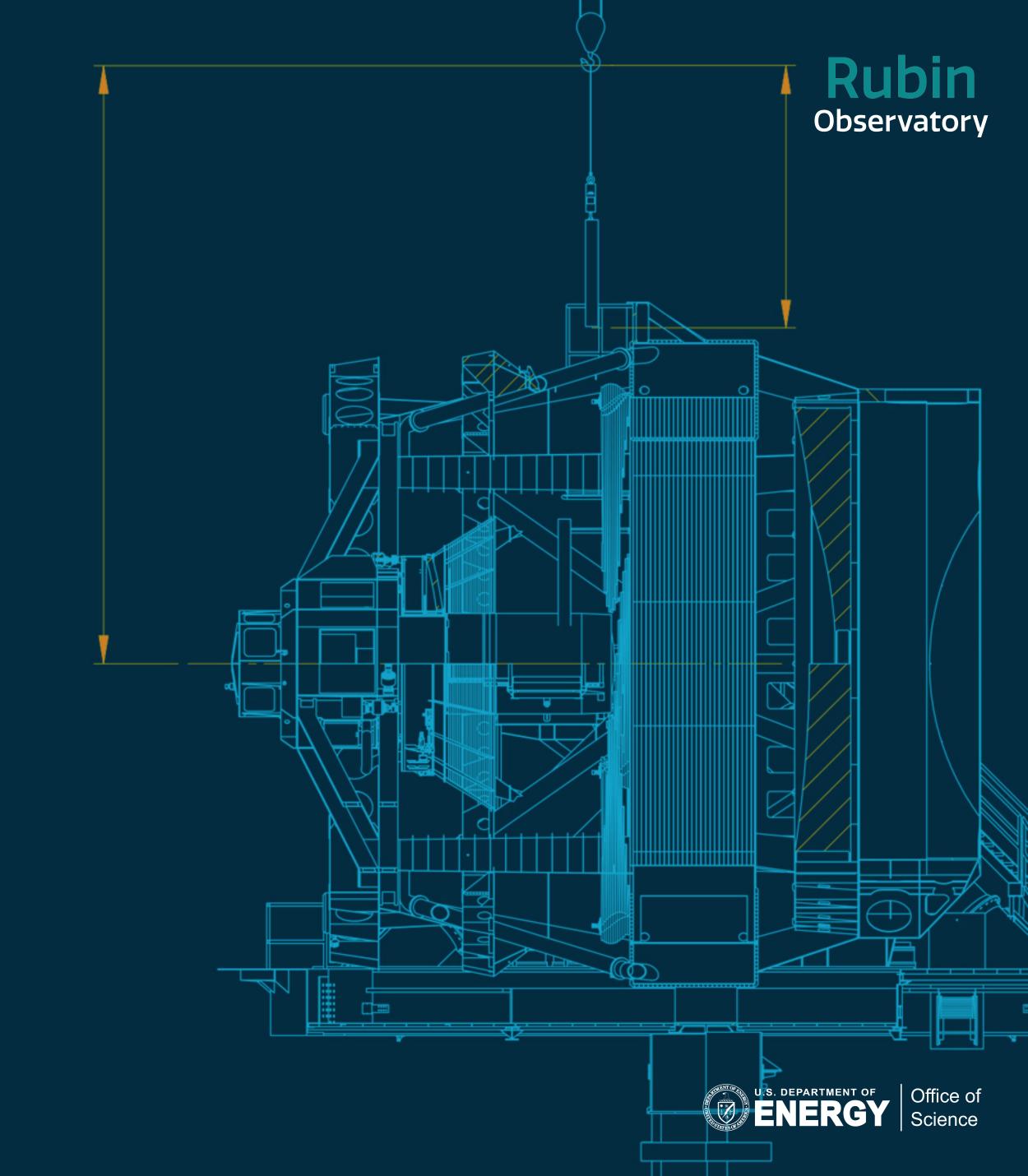
# Class properties

```
class Point:
    """A cartesian coordinate.
    Parameters
    x : `float`
        The ``x``-axis coordinate.
    y: `float`
        The 'y' -axis coordinate.
   .....
   @property
   def x(self):
       """The ``x``-axis coordinate (`float`)."""
       return self._x
   def __init__(self, x, y):
       self. x = x
       self_{\bullet}y = y
```



https://developer.lsst.io/user-docs/index.html

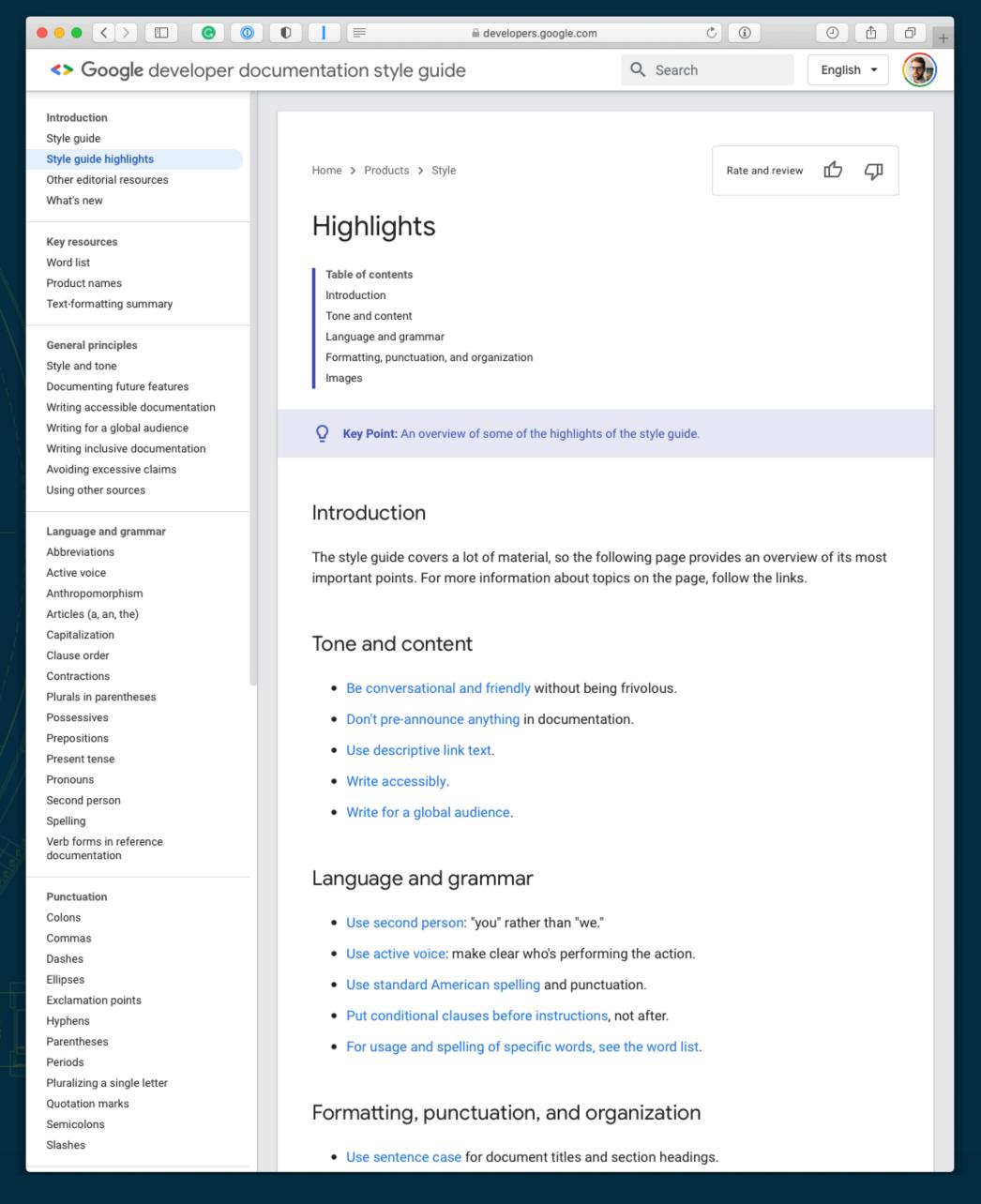
# Content style guide





# The style guide is here to help you

In DM, we have primarily adopted the Google Content Style guide: developers.google.com/style/









#### Writing for the web

Rubin Observatory

- Users won't read your text thoroughly in a word-by-word manner.
- The first two paragraphs must state the most important information.
- Start subheads, paragraphs, and bullet points with information-carrying words.

The state of the s

From: F-Shaped Pattern For Reading Web Content by Jakob Nielsen, http://ls.st/fzp.

#### 

# **Rubin**Observatory

#### Writing for the web

- Most people don't read the web sentence-by-sentence.
- Use lots of meaningful headers.
- 2–3 sentence paragraphs.
- First one or two words of a paragraph should convey meaning.
- Use lists and typographic elements for structure.





# Tone: be conversational without being frivolous

- Please note that completion of the task requires the following prerequisite: executing an automated memory management function.
- Then—BOOM—just garbage-collect (or *collecter des garbáge*, as they say in French), and you're golden.
- To clean up, call the collectGarbage() method.

The most straightforward sentence is often the best sentence.

Avoid sounding "clever."

Avoid jokes unless you know what you're doing.

**Contractions are fine.** 

From https://developers.google.com/style/tone



#### Use second person



In the previous tutorial in the series we used processCcd.py to calibrate a set of raw Hyper Suprime-Cam images. Now we'll learn how to use the LSST Science Pipelines to inspect processCcd.py's outputs by displaying images and source catalogs in the DS9 image viewer. In doing so, we'll be introduced to some of the LSST Science Pipelines' Python APIs.

In the previous tutorial in the series you used processCcd.py to calibrate a set of raw Hyper Suprime-Cam images. Now you'll learn how to use the LSST Science Pipelines to inspect processCcd.py's outputs by displaying images and source catalogs in the DS9 image viewer. In doing so, you'll be introduced to some of the LSST Science Pipelines' Python APIs.

From https://developers.google.com/style/person



#### Rubin Observatory

# Use second person: speak directly to the user

- When setting up a product, a user may specify a version, or accept the current default.
- When setting up a product, you may specify a version, or accept the current default.

User documentation must be actionable for the user.

From https://developers.google.com/style/person



#### Use the active voice



- The service is queried, and an acknowledgment is sent.
- Send a query to the service. The server sends an acknowledgment.

Passive? If you can add "by monkeys" to a sentence, it's passive.

Active voice makes it clear who performs the action, which makes for more understandable documentation.

From https://developers.google.com/style/voice





#### Use the passive voice when the actor is unimportant to the user

- The database was purged in January.
- Over 50 conflicts were found in the file.

From https://developers.google.com/style/voice





#### Write in the present tense

- Send a query to the service. The server will send an acknowledgment.
- Send a query to the service. The server sends an acknowledgment.
- You can send an unsubscribe message. The server would then remove you from the mailing list.
- If you send an unsubscribe message, the server removes you from the mailing list.

https://developers.google.com/style/tense







# Don't anthropomorphize software and hardware systems

- The doApCorr configuration field tells the ForcedPhotCcdTask whether to apply aperture corrections.
- Set the doApCorr configuration field to True to enable aperture corrections.

**Software doesn't:** 

- tell
- know
- want
- ...

See https://developers.google.com/style/anthropomorphism





# Avoid ableist language



- Replace the dummy variable in this example with the appropriate variable.
- Replace the placeholder variable in this example with the appropriate variable.

https://developers.google.com/style/inclusive-documentation



#### Use sentence case for section headlines



- LSST-Related Notebook Repositories
- LSST-related notebook repositories

- Getting Notebooks from GitHub
- Getting notebooks from GitHub

https://developers.google.com/style/headings



### Introducing a list



- Use the LSST Science Pipelines to:
  - do forced photometry
  - measure galaxy shapes
  - apply photometric and astrometric calibrations
- You can use use the LSST Science Pipelines any of the following purposes:
  - To perform forced photometry of a set of images.
  - To measure the shapes of galaxies.
  - To apply photometric and astrometric calibrations.

See https://developers.google.com/style/lists



#### List tips

Rubin Observatory

- √ Use parallel structure.
- ✓ Add a period if the item is a complete sentence.
- ✓ Don't add add punctuation if the item is a single word.
- √ Use the appropriate type of list:
  - Bullet lists for unordered items
  - Numbered lists for procedures.
  - Definition lists to pair terms with definitions or explanations.

See https://developers.google.com/style/lists



# Introducing a code sample



Run:

setup lsst\_distrib

to set up the LSST Science Pipelines.

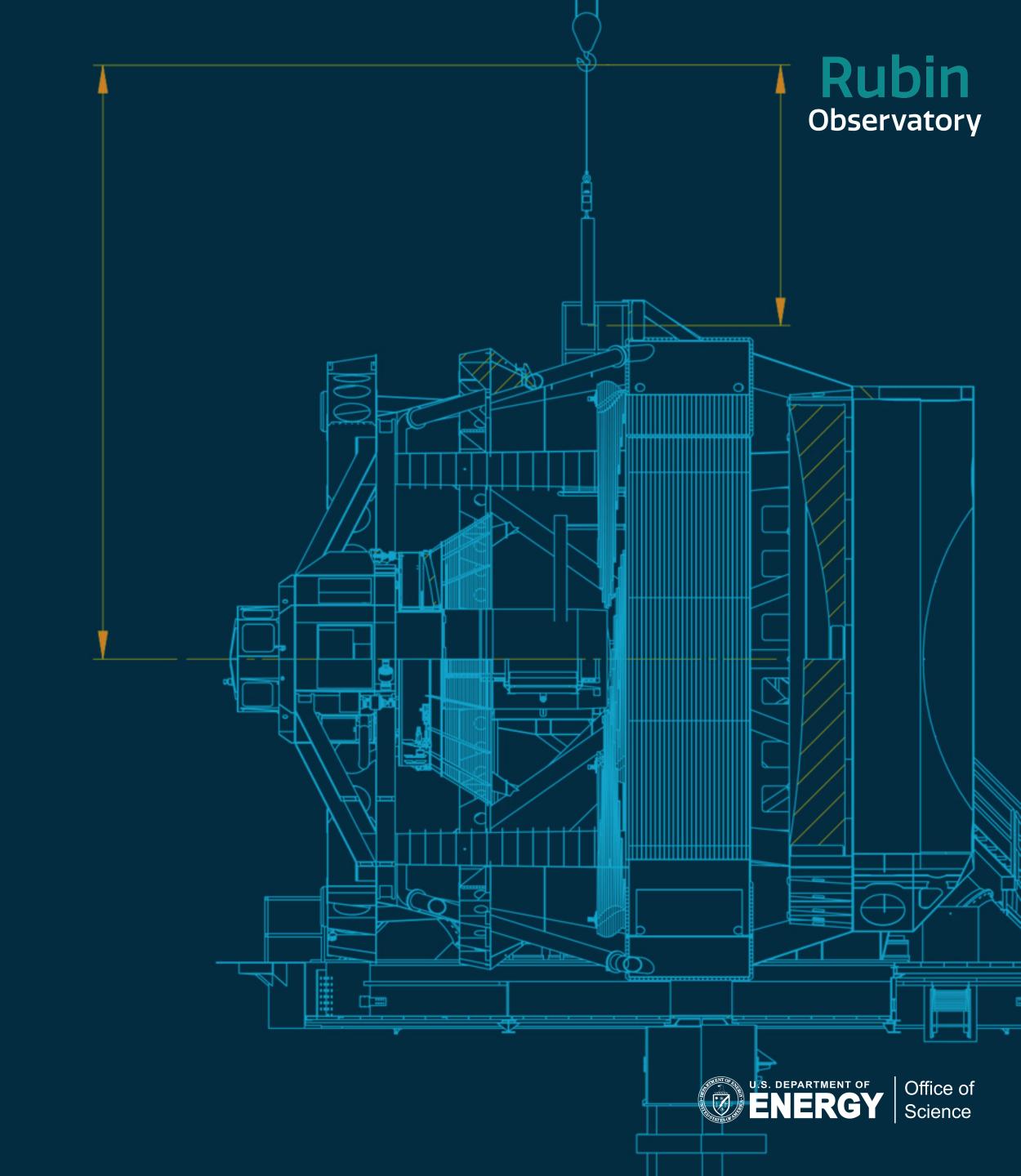
V

Run this command to set up the LSST Science Pipelines: setup lsst\_distrib



# Whew, that was a lot to learn.

Don't worry, everything is documented and you can ask for help on Slack.





#### Resources for learning more

#### Slack

#dm-docs channel for help writing docs

#### User documentation style guide

https://developer.lsst.io/user-docs/index.html

#### ReStructuredText style guide

https://developer.lsst.io/restructuredtext/style.html

#### **Docstrings**

https://developer.lsst.io/python/numpydoc.html

#### Stack developer guide (including writing docs for pipelines.lsst.io)

https://developer.lsst.io/index.html#dm-stack

#### **Writing technotes**

https://developer.lsst.io/project-docs/technotes.html

#### **Documentation portal**

https://www.lsst.io



