PROJECT DOCUMENTATION WITH SPHINX

(or, How I Learned to Stop Worrying and Love reStructuredText)

Dan Gillean
Artefactual Systems

Version 2.3 has not been released yet, and its documentation is a work in progress.

AtoM documentation

User manual

User guide to creating, editing, accessing, importing, exporting, and translating content in AtoM; includes administering the system via the user interface.

OVERVIEW

This section provides an overview of the technical architecture and requirements.

- What is AtoM?
- Technical requirements
- Entity types
- Descriptive standards

GETTING STARTED

This section describes how to start using AtoM once it has been installed. It provides a quick orientation to the home page, how to log in and log out, the various user roles in the system, the main page types a user will encounter, and how to switch languages.

- Home page
- Log in
- User roles
- Page types
- Choose language
- Change password

ADD/EDIT CONTENT

This section describes how to add, edit, and delete

Administrator manual

Instructions for installing, upgrading, importing and more; includes administering the system via the command-line interface.

INSTALLATION

- Intended audience
- Requirements
- Linux
- Windows
- Mac OS X
- Using Vagrant
- Multi-node deployment
- Upgrading
- PHP execution limits
- Asynchronous jobs and worker management

MAINTENANCE

- Command line tools
- Clear cache
- Web analytics
- Logging
- Monitoring
- Populate search index
- Data backup
- Tuning server parameters
- Troubleshooting
- Debug mode
- Elasticsearch

CUSTOMIZATION

Version 2.3

[Table of contents]

CONTENTS

AtoM documentation
- User manual
  - Overview
  - Getting started
  - Add/edit content
  - Access content
  - Translate
  - Reports/printing
  - Import/export
  - Administer
  - Data entry / templates
  - Glossary
- Administrator manual
  - Installation
  - Maintenance
  - Customization
  - Security

SEARCH

Open the general index or type your search in the search box.

AVAILABLE DOCUMENTS

- Version 2.0
- Version 2.1
- Version 2.2
- Version 2.3

BACKGROUND

AtoM DEVELOPMENT

2008

2014

FIRST NON-BETA RELEASE

ICAAtoM

atom access to memory

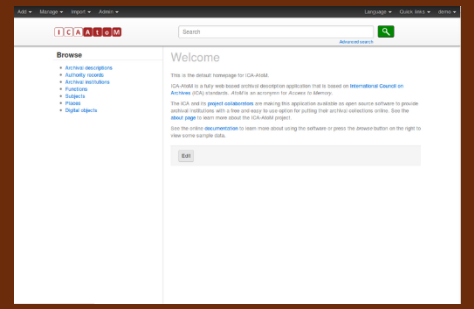
0.X-BETA | 1.0-BETA | 1.1 | 1.2 | 1.3 | 2.0

2009 | 2010 | 2011 | 2012 | 2013

Qubit open information management toolkit

ICAAtoM open source archival description software

TRILLIUM THEME



2013:

1 PROJECT...
3 WIKIS
4 THEMES

And AtoM 2.0 on the way...

http://imgur.com/32eaxCQ

WIKI CHALLENGES

No versioning (e.g. ICA-AtoM 1.2, 1.3: AtoM 2.0)

No enforced structure

Too easy to create orphaned pages

No easy output to other formats

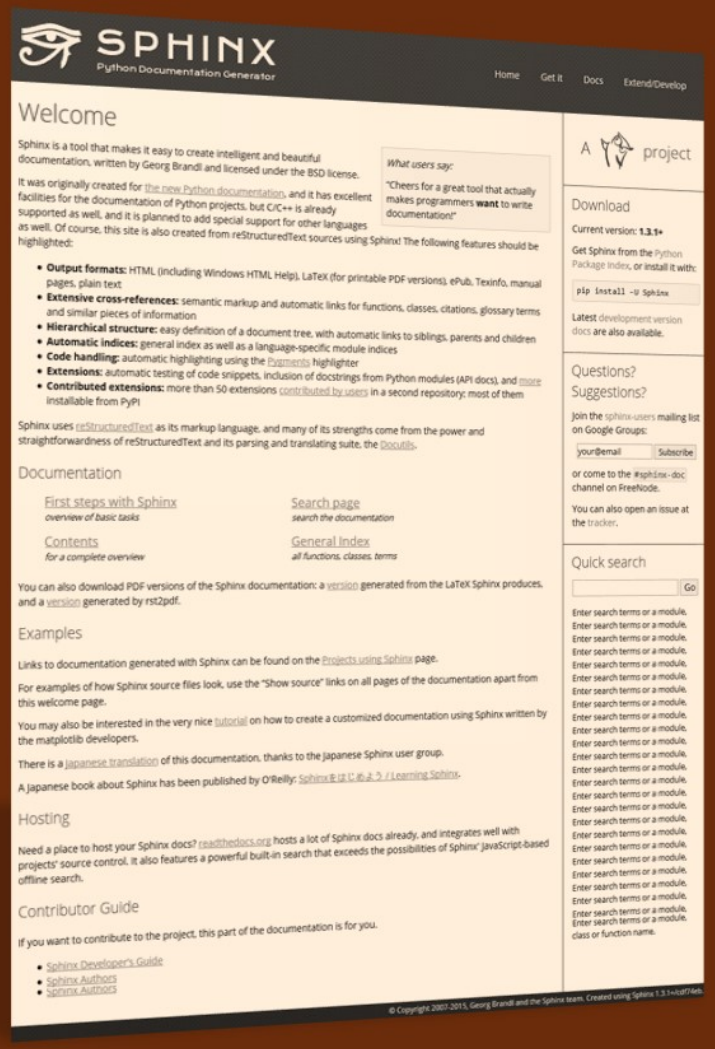
https://commons.wikimedia.org/wiki/File:Coober_Pedy_Warning_sign_02427.jpg

ENTER

http://onemillionskates.com/inside-edge/a-true-hero-dad-this-ones-for-you

SPHINX OVERVIEW

Python Documentation Generator



Documentation generator

Open source

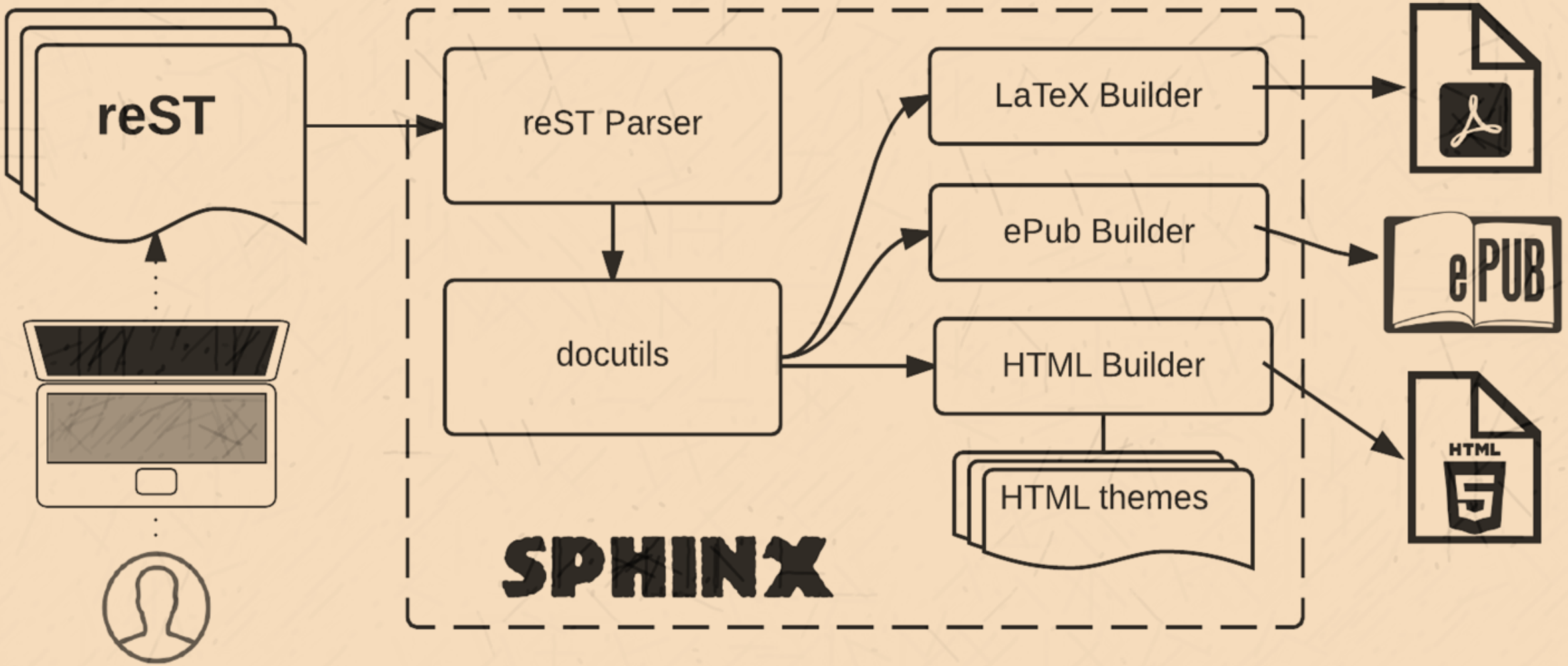
Created by Python community

Builds on existing open source projects:

- reStructured Text (markup language)
- Docutils (text processing system)

SPHINX OVERVIEW

Python Documentation Generator



reST BASICS

http://blog.sleepingsimple.com/wp-content/uploads/2012/03/Cat-Nap.jpg

reST BASICS

```
.. _section-anchor:

==============
Section header
==============

Subsection header
=================

Sub-subsection
--------------
```

```
Example of a :term:`glossary term` and
a :ref:`section-anchor <reference>`
used in a paragraph

.. image:: /images/my-image.png
   :align: center
   :width: 80%
   :alt: my image alt text

Text can be **strong** or have
*emphasis*
```

reST BASICS

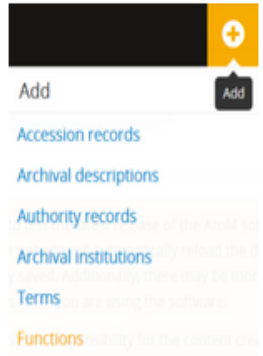
```
.. IMPORTANT::

   This is an admonition. Sphinx
   also supports NOTE, TIP,
   SEEALSO, WARNING, CAUTION,
   HINT, etc.

This is a `link`_ that can be reused

.. _link: http://www.example.com

This is an `inline link
<http://www.example2.com>`__
```

```
.. code-block:: xml

   <scopecontent>My scope
   and content</scopecontent>

* This is a bulleted list.
* It has two items, the second
  item uses two lines.

1. This is a numbered list.
2. It has two items too.

#. This is a numbered list.
#. It has two items too.
```

glossary.rst | config-files.rst

```
.. _add-function-add-menu:

Add a new function from the main menu
-------------------------------------

.. image:: images/add-functions.*
   :align: right
   :width: 20%
   :alt: Choosing functions in the Add menu

A new function can be added at any time, from anywhere in the application,
via the :term:`main menu`, provided that a user has sufficient :term:`access
privileges <access privilege>` to create new records. For more information on
user permissions, see: :ref:`user-roles` and :ref:`default-user-permissions`.

**To create a new function from the main menu**

1. In the :term:`main menu` located in the :term:`header bar`, click the
   |plus| :ref:`"Add" <main-menu-add>` menu and select "Function"
   from the :term:`drop-down menu`.
2. AtoM takes you to a blank :term:`edit page` for data entry.
3. On loading, the :term:`edit page` displays the record with all
   :term:`information areas <information area>` closed; click on an
   :term:`information area` to access the :term:`fields <field>` grouped under
   it. Enter data as required.

   .. figure:: images/blank-function.*
      :align: center
      :figwidth: 60%
      :width: 100%
      :alt: An image of a blank ISDF record in edit mode

      When creating a new function from the Add menu, all information areas
      will appear closed on the blank function record - click to open and add
      data as required.

4. You can quit the process at any time by clicking the "Cancel" button in the
   :term:`button block`; any data already entered will not be saved and no new
```

ADD A NEW FUNCTION FROM THE MAIN MENU



A new function can be added at any time, from anywhere in the application, via the main menu, provided that a user has sufficient access privileges to create new records. For more information on user permissions, see: User roles and Default user permissions settings in AtoM.

To create a new function from the main menu

1. In the main menu located in the header bar, click the ⊕ "Add" menu and select "Function" from the drop-down menu.
2. AtoM takes you to a blank edit page for data entry.
3. On loading, the edit page displays the record with all information areas closed; click on an information area to access the fields grouped under it. Enter data as required.

When creating a new function from the Add menu, all information areas will appear closed on the blank function record - click to open and add data as required.

4. You can quit the process at any time by clicking the "Cancel" button in the button block; any data already entered will not be saved and no new record will be added. Note that simply navigating away from the page by any other means, **without first clicking "Create"** will also result in no new record being created.
5. To save the new function record, click the "Create" button in the button block at the bottom of the record. AtoM will redirect you to the function's view page, so you can review your work.

SPHINX Python Documentation Generator

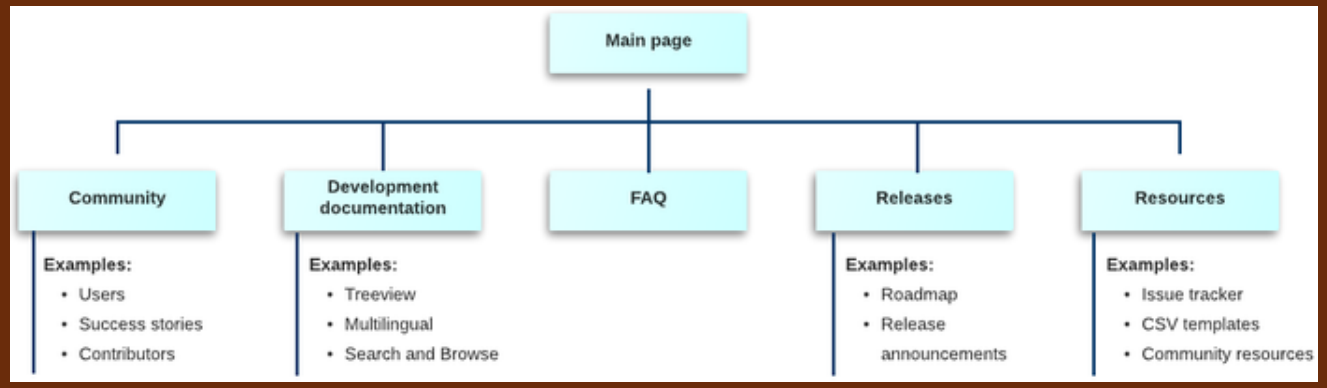
ADVANTAGES

- Structured documentation
  - Built around a table of contents you define
- Versioning
  - Easily maintained in a repository w many branches
- Easy output to other formats
- Glossary, footnotes, asides, figures, tables, etc…
- Built-in themes or custom themes
- Automated indices
- Strong support for code documentation

http://cheezburger.com/6705529088

WIKIS STILL HAVE THEIR USES!

- Web-based editing
- Popular uses (e.g. Wikipedia) have made it familiar and easy to understand for users
- Good for rapidly changing content



AtoM Sphinx docs:

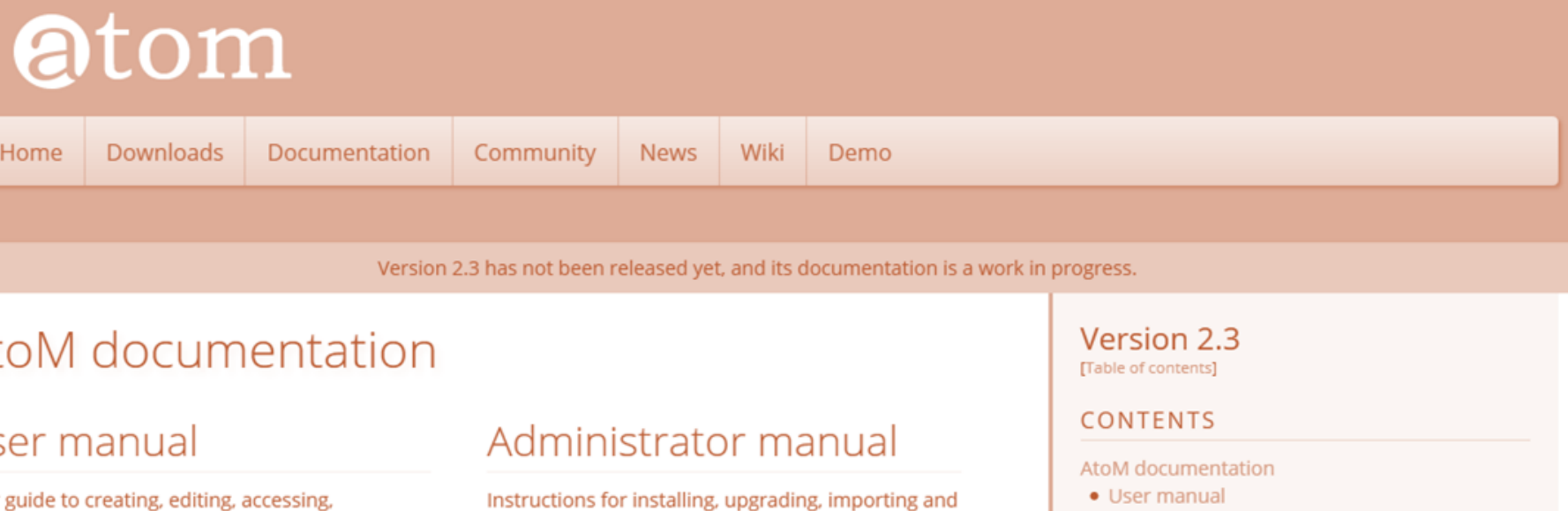
- User manual
- Admin manual

AtoM Wiki:

- Release notes
- User list
- Community resources
- Development documentation

THANKS!

AtoM docs: https://www.accesstomemory.org/docs

Documentation repo: https://github.com/artefactual/atom-docs

Sphinx documentation: http://sphinx-doc.org/