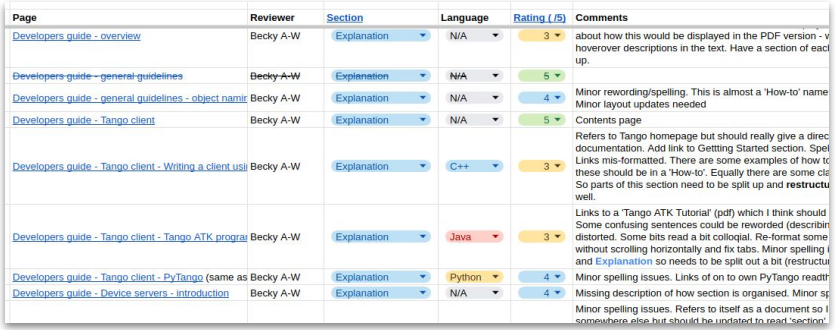
A Review of the Tango Documentation Update and Restructure

Presented by
Becky Auger-Williams

on behalf of
Benjamin Bertrand, Reynald Bourtembourg, Thomas Braun, Andy Götz, Vincent Hardion, Anton Joubert, Thomas Jürges, Damien Lacoste, Vicente Rey-Bakaikoa, Nicolas Tappret

Aspects of the update

- **Review** the original documentation:
  - Sections to be removed
  - Sections to be updated



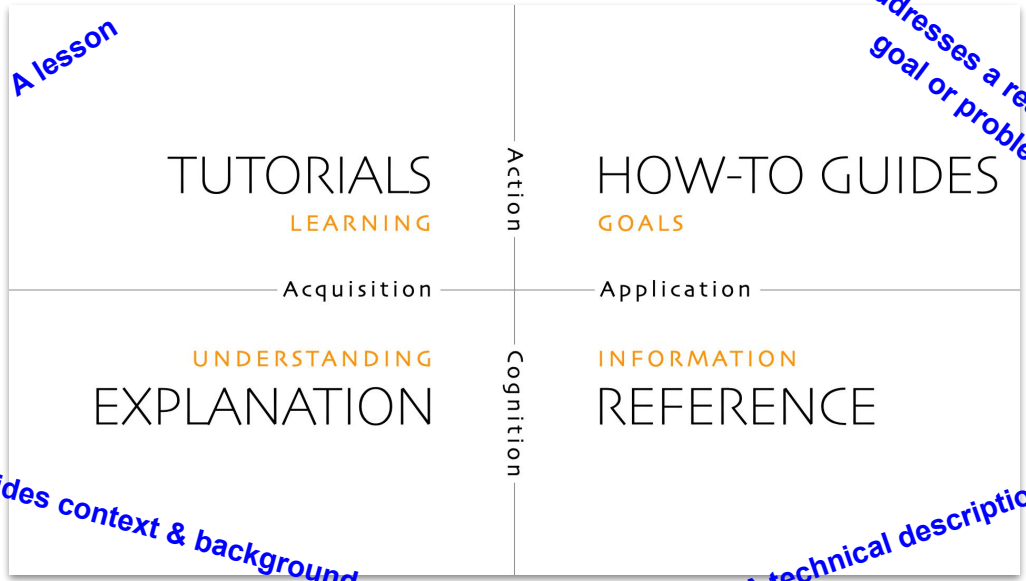
Page	Reviewer	Section	Language	Rating (/5)	Comments
Developers guide - overview	Becky A-W	Explanation	N/A	3	about how this would be displayed in the PDF version - w hoverover descriptions in the text. Have a section of eac up.
~~Developers guide - general guidelines~~	~~Becky A-W~~	Explanation	N/A	5	
Developers guide - general guidelines - object namir	Becky A-W	Explanation	N/A	4	Minor rewording/spelling. This is almost a 'How-to' name Minor layout updates needed
Developers guide - Tango client	Becky A-W	Explanation	N/A	5	Contents page
Developers guide - Tango client - Writing a client usi	Becky A-W	Explanation	C++	3	Refers to Tango homepage but should really give a direc documentation. Add link to Gettting Started section. Spel Links mis-formatted. There are some examples of how t these should be in a 'How-to'. Equally there are some cl So parts of this section need to be split up and **restructu** well.
Developers guide - Tango client - Tango ATK prograi	Becky A-W	Explanation	Java	3	Links to a 'Tango ATK Tutorial' (pdf) which I think should Some confusing sentences could be reworded (describin distorted. Some bits read a bit colloqial. Re-format some without scrolling horizontally and fix tabs. Minor spelling and Explanation so needs to be split out a bit (restructu
Developers guide - Tango client - PyTango (same as	Becky A-W	Explanation	Python	4	Minor spelling issues. Links of on to own PyTango readth
Developers guide - Device servers - introduction	Becky A-W	Explanation	N/A	4	Missing description of how section is organised. Minor sp
					Minor spelling issues. Refers to itself as a document so somewhere else but should be updated to read 'section'

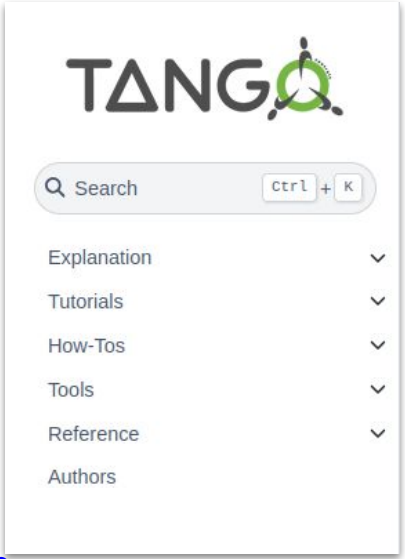
- **Restructure** to follow the Diataxis documentation approach, a.k.a. The Grand Theory of Documentation (GUTD).

diátaxis

Diataxis/GUTD

- Approach for writing documentation.
- Identifies **4** distinct needs of the reader





Documentation Workshops

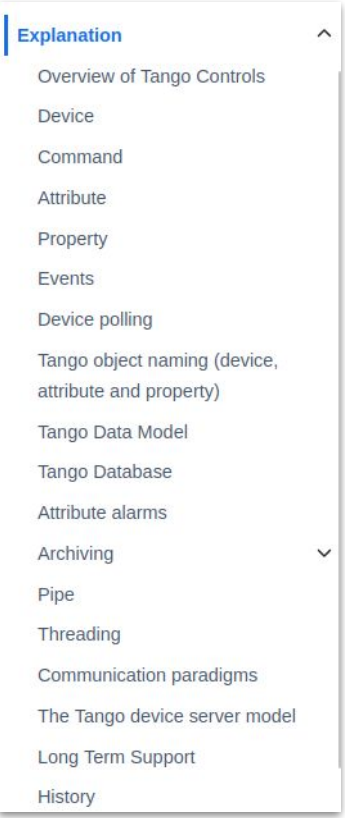
October 2024 Documentation Workshop

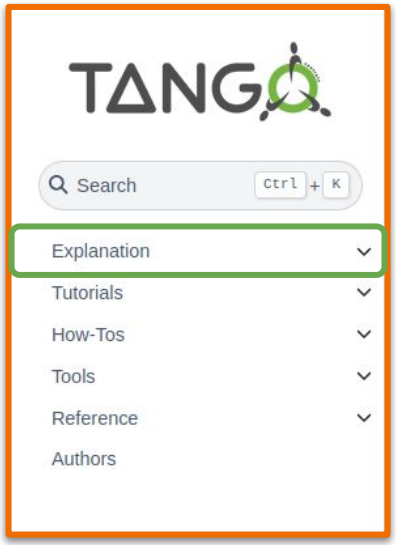
- Took place in Autrans, near Grenoble
- Participants: Benjamin Bertrand, Reynald Bourtembourg, Thomas Braun, Andy Götz, Vincent Hardion, Anton Joubert, Thomas Jürges, Damien Lacoste, Vicente Rey-Bakaikoa, Nicolas Tappret, Becky Auger-Williams (remote).
- Performed the initial restructure of the documentation.

Remote Documentation Workshop

- Dedicated 2 hour workshop every Thursday on Zoom
- Shout out: Benjamin Bertrand, Reynald Bourtembourg, Thomas Braun, Anton Joubert, Thomas Jürges

Restructure





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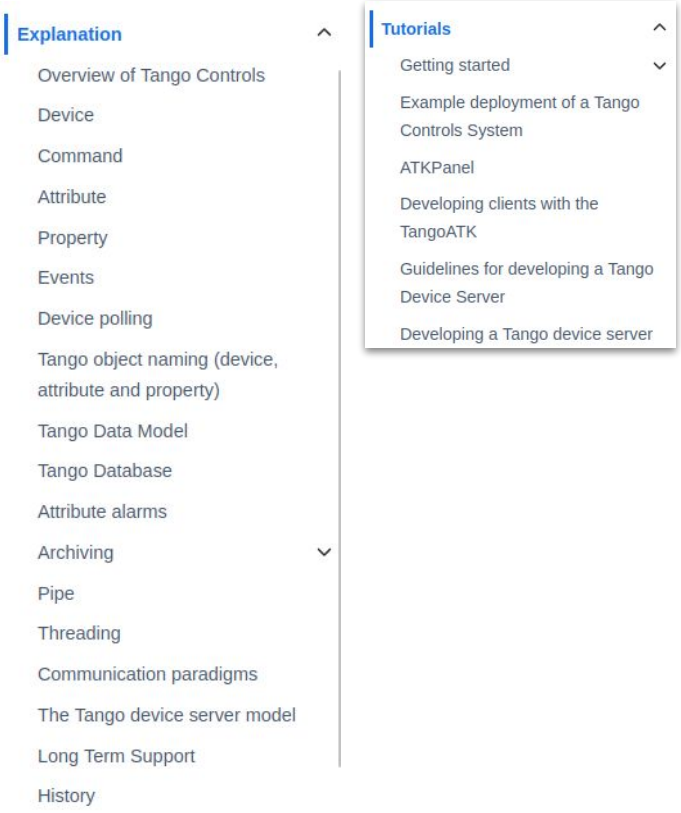

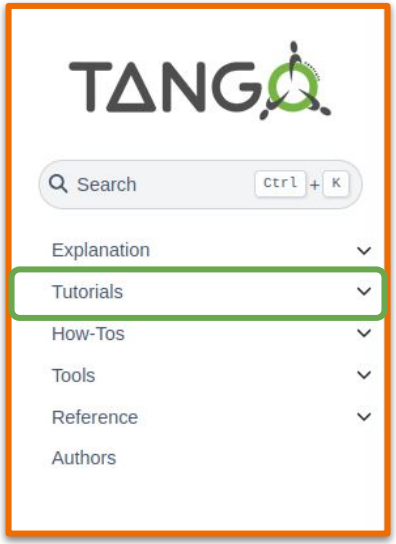

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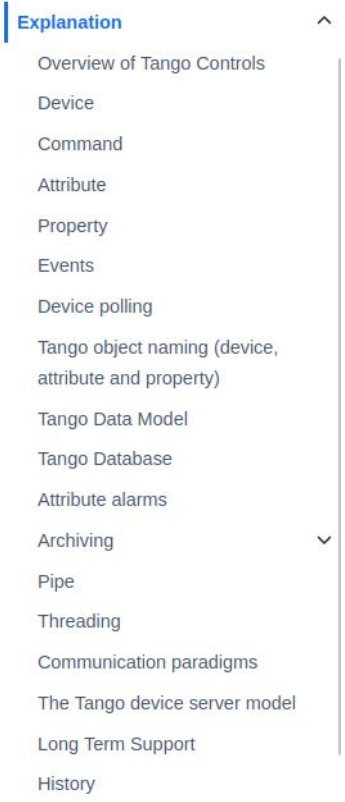

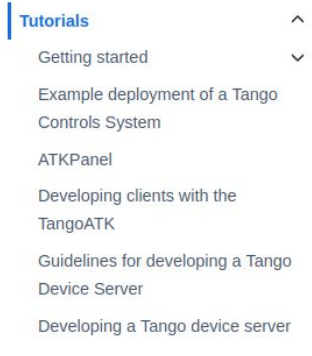

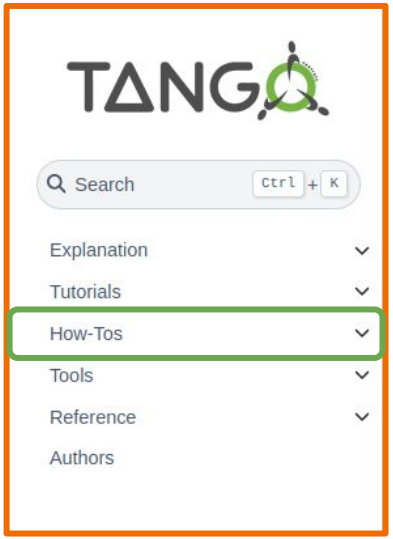

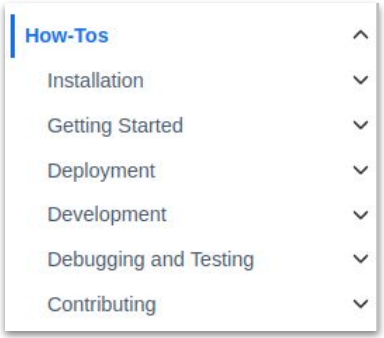

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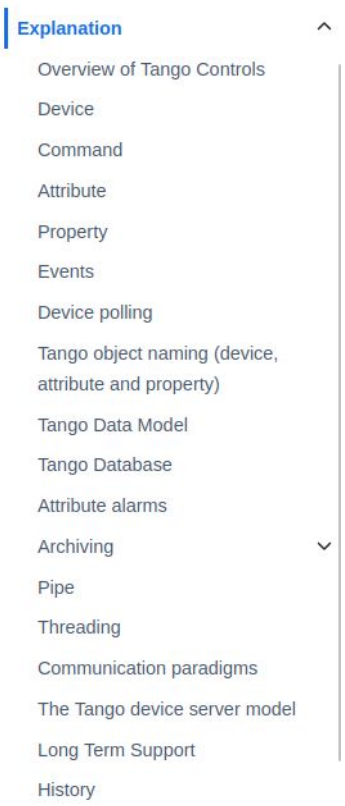
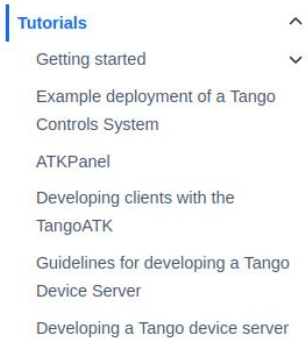
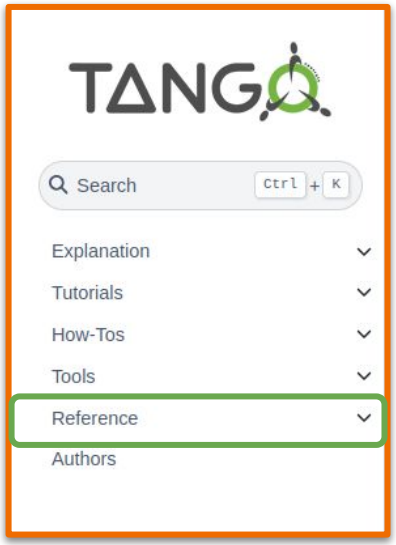
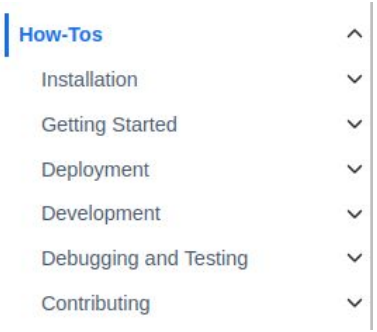
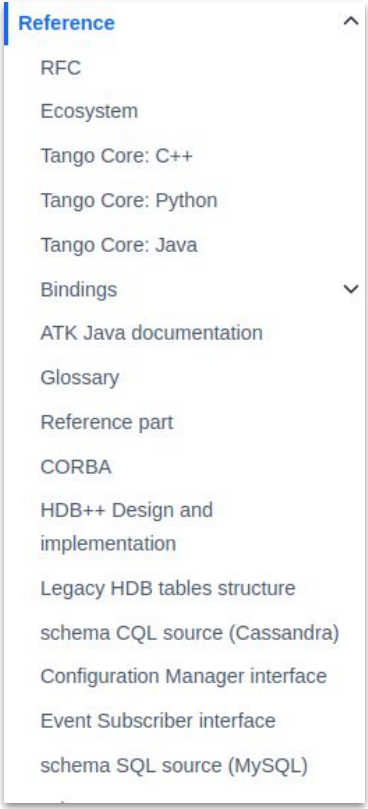










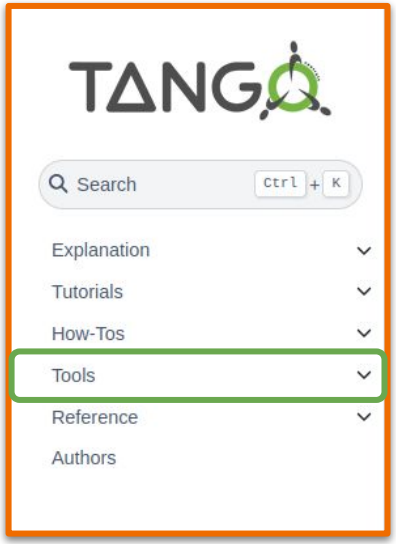
Restructure

Explanation

- Overview of Tango Controls
- Device
- Command
- Attribute
- Property
- Events
- Device polling
- Tango object naming (device, attribute and property)
- Tango Data Model
- Tango Database
- Attribute alarms
- Archiving
- Pipe
- Threading
- Communication paradigms
- The Tango device server model
- Long Term Support
- History

Tutorials

- Getting started
- Example deployment of a Tango Controls System
- ATKPanel
- Developing clients with the TangoATK
- Guidelines for developing a Tango Device Server
- Developing a Tango device server



Tools

- Developer's Toolkit
- Tango Application Toolkit "ATK"
- Astor
- Jive
- Starter
- LogViewer
- Tango Admin utility
- JDraw

How-Tos

- Installation
- Getting Started
- Deployment
- Development
- Debugging and Testing
- Contributing

Reference

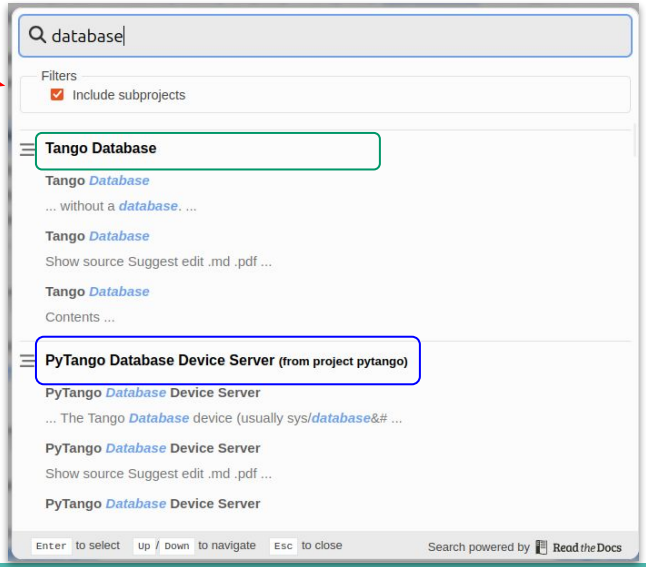
- RFC
- Ecosystem
- Tango Core: C++
- Tango Core: Python
- Tango Core: Java
- Bindings
- ATK Java documentation
- Glossary
- Reference part
- CORBA
- HDB++ Design and implementation
- Legacy HDB tables structure
- schema CQL source (Cassandra)
- Configuration Manager interface
- Event Subscriber interface
- schema SQL source (MySQL)

New features

- Use of **subprojects**
  - Fall under same domain name
  - E.g. Jive, PyTango, Astor
  - **Search feature** allows searching through subprojects as well!
  - Easier **cross-referencing** within the documentation

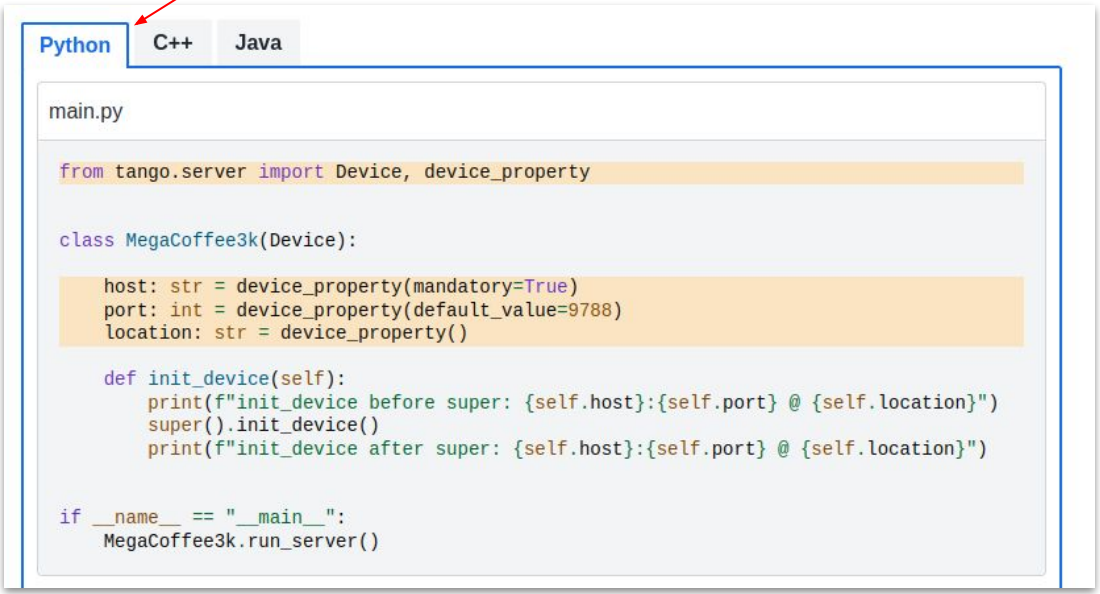
Main page: tango-controls.readthedocs.io/en/latest/

Subproject: tango-controls.readthedocs.io/projects/pytango/en/latest/index.html



New features

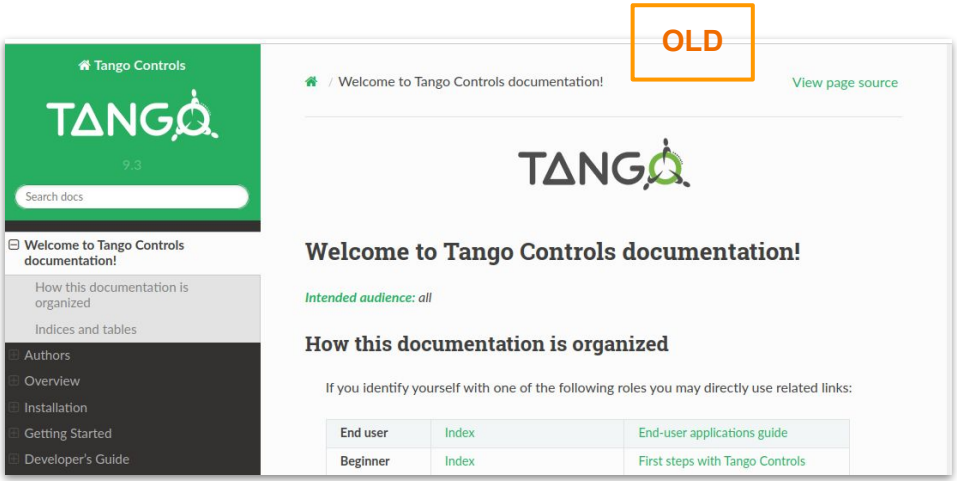
- How-tos have been developed across all* languages (not split out)

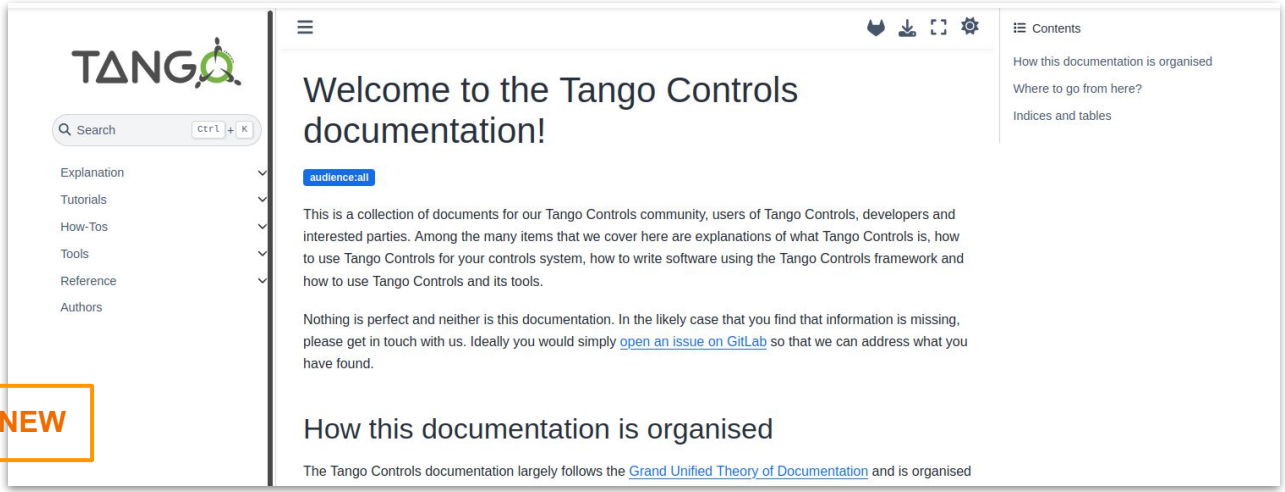


* work in progress...

Further changes

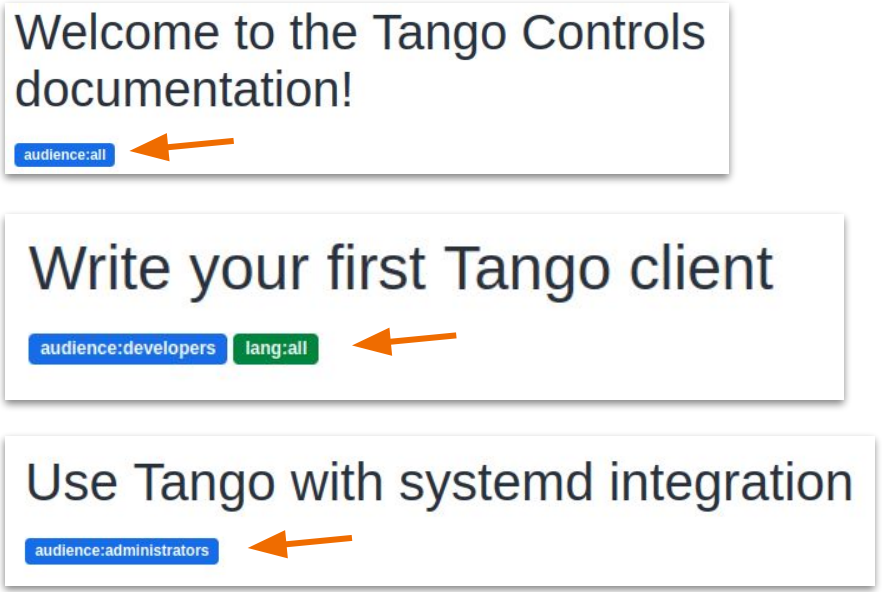
- Focuses on latest version of Tango (v10+)
- Updated theme





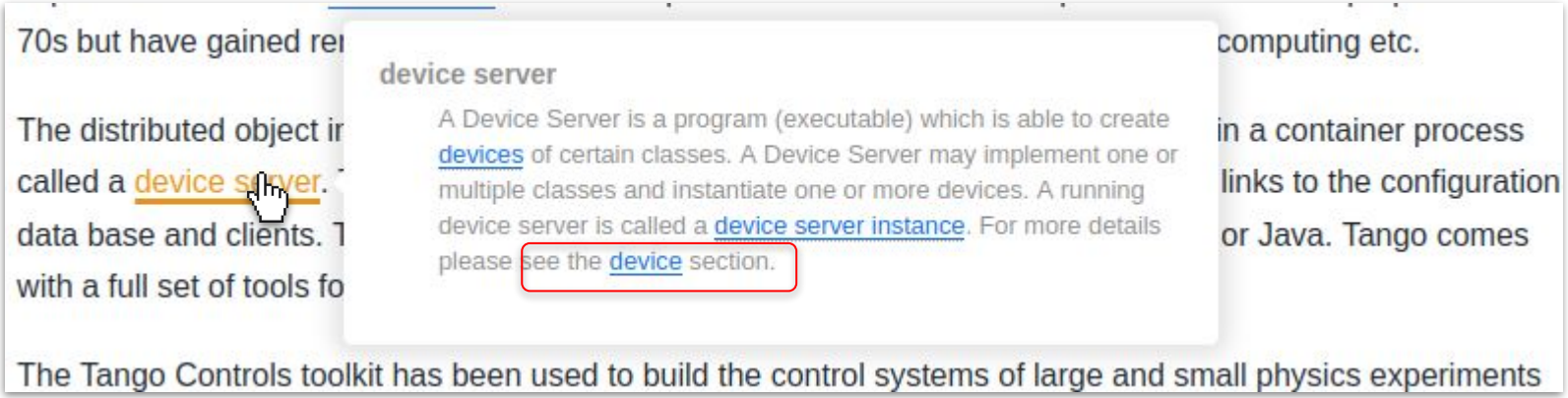
Further changes

- Improved cross-referencing throughout
- Fixed broken links
- Not split into ‘users’/’developers’ section
  - Doesn’t pigeon hole the reader
  - **Tags** can be used as guidance



Further changes

- Glossary term ‘hover-overs’



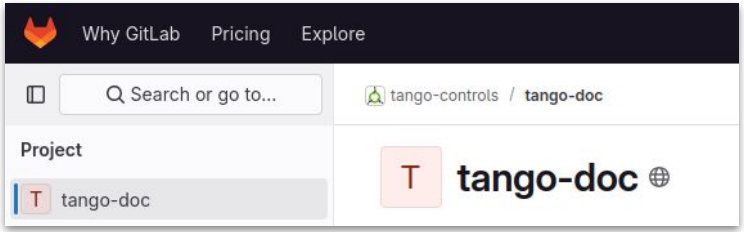
- Terms can be added ‘**in place**’, i.e. where they are documented (No need to add to a separate glossary file).

Future

Todo:

- Still need to add different languages to some **How-tos**.
- Review tango-doc **GitLab issues** (so we can start fresh)

Ongoing:



- **NEEDS TO BE MAINTAINED!!!**
  - Document new features
  - Add new How-Tos as they are discovered
- How to contribute to tango-docs has been well documented... all/any contributions are ALWAYS welcome.
  https://tango-controls.readthedocs.io/en/latest/How-To/contributing/docs/docs.html#documentation-workflow-tutorial


tango-controls.readthedocs.io/en/latest/index.html
TANGO
Search Ctrl + K
Explanation
Tutorials
How-Tos
Tools
Reference
Authors
Contents
How this documentation is organised
Where to go from here?
Indices and tables
Welcome to the Tango Controls documentation!
audience:all
This is a collection of documents for our Tango Controls community, users of Tango Controls, developers and interested parties. Among the many items that we cover here are explanations of what Tango Controls is, how to use Tango Controls for your controls system, how to write software using the Tango Controls framework and how
Nothing is perfect and neither is this documentation. In the likely case that you find that information is missing,
Thank you to everyone who has contributed to the documentation update!
How this documentation is organised
The Tango Controls documentation largely follows the Grand Unified Theory of Documentation and is organised in the following categories (with some overlap):
Explanation
Overview of what Tango Controls is, its origins and who uses it. If you are new to Tango Controls, then we recommend that you start
Tutorials
We show you how to implement Tango Devices, Tango clients and other Tango-related software.
latest