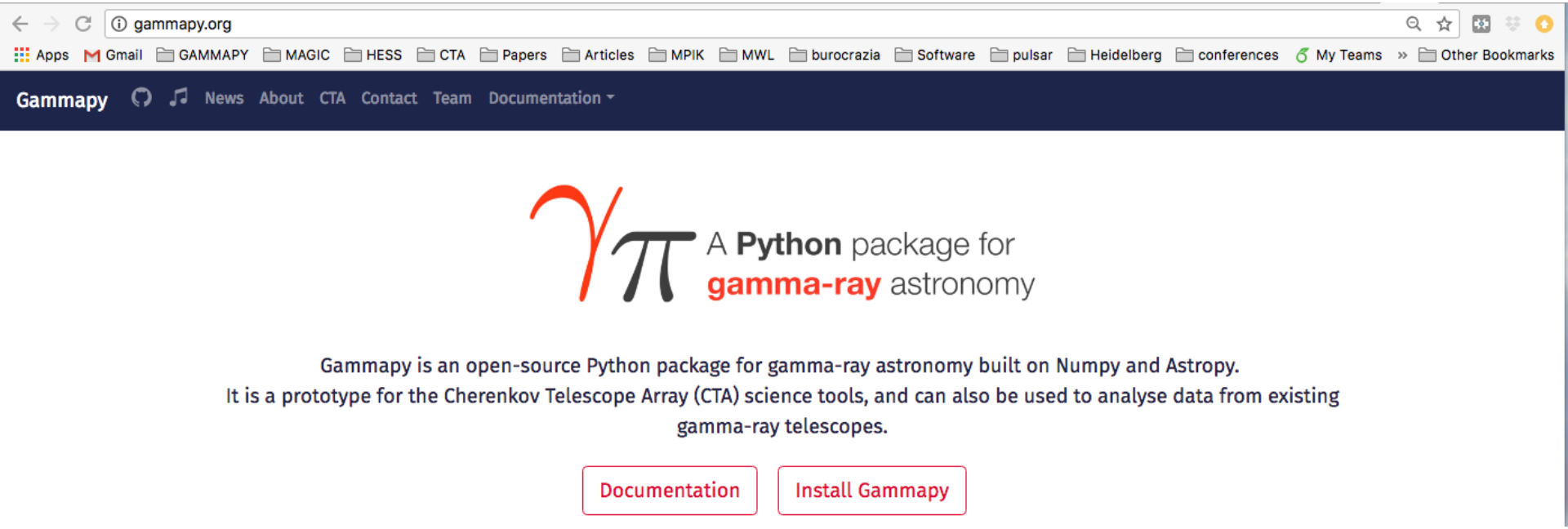
DOCUMENTATION STATUS

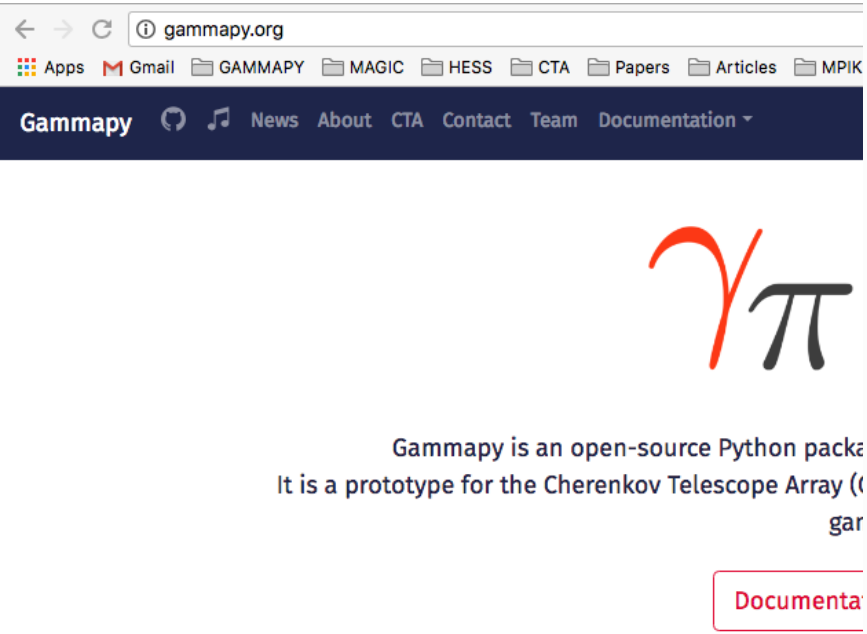
✓ New working webpage http://www.gammapy.org



DOCUMENTA

1

✓ New working webpage



✓ Documentation page

Getting started

Gammapy works with Python 2 and 3, on Linux, Mac OS X and (partly) Windows. See Installation for information how to get started and the Tutorial notebooks to start to learn how to use Gammapy.

- Installation
- Getting Started
- Tutorial notebooks

Gammapy package

As mentioned in the Getting Started, the Gammapy package is structured as a series of sub-packages. We recommend that you start to learn Gammapy via the Tutorial notebooks, and then consult the following pages for further information about each sub-package. Those pages also contain very detailed reference documentation for every function and class in Gammapy.

- Sources / population models (`astro`)
- Background estimation (`background`)
- Source catalogs (`catalog`)
- 3D cube analysis (`cube`)
- Data / observation handling (`data`)
- Dataset access (`datasets`)
- Source detection tools (`detect`)
- 2D image analysis (`image`)
- Instrument response functions (`irf`)
- 1D spectrum analysis (`spectrum`)
- Statistics tools (`stats`)
- Time analysis (`time`)
- Utility functions / classes (`utils`)
- Structures for images / cubes (`maps`)
- Command line tools (`scripts`)

Developer documentation

The Gammapy webpage contains information about the Gammapy project and team as well as information about Gammapy contact and communication channels. Most development takes place on the Gammapy GitHub page.

- Developer documentation

DOCUMENTATION STATUS

- ✓ Example datasets and tutorials in a second ***gammapy-extra*** git repository
  - ✓ Pro: keep the main gammapy code small
  - ✓ Contra: Problems with data changing and versions not being linked
- ✓ **Binder** available to run notebooks: build a Docker image of your repository

TODO

- ✓ Improve **installation instructions**
  - ✓ Team: Roberta & Josè Enrique → anybody else is welcome
  - ✓ Priority: high
  - ✓ Timescale: this summer
- ✓ Improve **developer documentation**
  - ✓ Missing volunteers!
  - ✓ Priority: medium
  - ✓ Timescales: mid-term project
- ✓ Check & improve **tutorial notebooks**
  - ✓ Team: Roberta
  - ✓ Priority: high
  - ✓ Timescale: this week +++
- ✓ Restructure tutorials/datasets storage i.e. **get rid of *gammapy-extra* dependency** (Proposal in PIG-004)
  - ✓ Notebooks in gammapy/notebooks, but with or without output cells filled
  - ✓ Use only stable datasets: no versioning is needed. Where to store them? URL
  - ✓ Shipment of notebooks and dataset with a gammapy download command GH 1369

TODO

- ✓ Improve **installation instructions**
  - ✓ Team: Roberta, Christoph & Josè Enrique → anybody else is welcome
  - ✓ Priority: high
  - ✓ Timescale: this summer
- ✓ Improve **developer documentation**
  - ✓ Missing volunteers!
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  - ✓ Priority: high
  - ✓ Timescale: this week +++
- ✓ Restructure tutorials/datasets storage i.e. **get rid of *gammapy-extra* dependency** (Proposal in PIG-004)
  - ✓ Team: Josè Enrique, Christoph, Roberta
  - ✓ Priority: medium
  - ✓ Timescale: this Fall

TUTORIAL NOTEBOOKS

- ✓ Use released data sets in all notebooks
  HESS FITS data release not one publicly available
- ✓ Replace SkyImage with gammapy.maps in all notebooks
- ✓ Create a new nice notebook for LC computation using PKS 2155 HESS FITS release data