

# DOCUMENTATION STATUS



1

✓ New working webpage

<http://www.gammapy.org>

The screenshot shows a web browser window with the address bar displaying 'gammapy.org'. The browser's bookmark bar includes links to 'Apps', 'Gmail', 'GAMMAPY', 'MAGIC', 'HESS', 'CTA', 'Papers', 'Articles', 'MPIK', 'MWL', 'burocrazia', 'Software', 'pulsar', 'Heidelberg', 'conferences', 'My Teams', and 'Other Bookmarks'. The website's navigation bar features the 'Gammapy' logo and links to 'News', 'About', 'CTA', 'Contact', 'Team', and 'Documentation'. The main content area displays the 'γπ' logo, followed by the text 'A Python package for gamma-ray astronomy'. Below this, a paragraph states: 'Gammapy is an open-source Python package for gamma-ray astronomy built on Numpy and Astropy. It is a prototype for the Cherenkov Telescope Array (CTA) science tools, and can also be used to analyse data from existing gamma-ray telescopes.' At the bottom, there are two buttons: 'Documentation' and 'Install Gammapy'.

γπ A Python package for  
gamma-ray astronomy

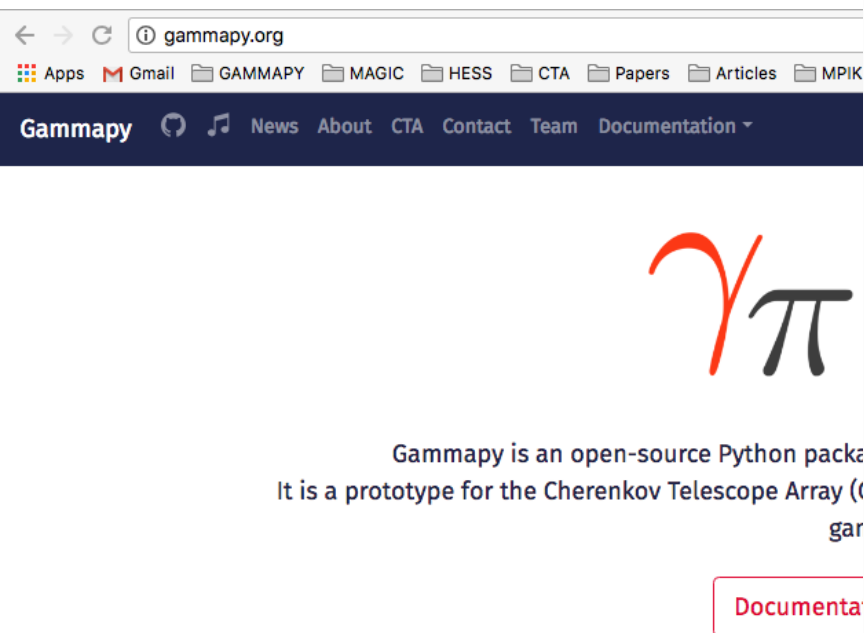
Gammapy is an open-source Python package for gamma-ray astronomy built on Numpy and Astropy.  
It is a prototype for the Cherenkov Telescope Array (CTA) science tools, and can also be used to analyse data from existing  
gamma-ray telescopes.

Documentation Install Gammapy

# 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



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- ✓ 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

3

- ✓ 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

3

- ✓ Improve **installation instructions**
  - ✓ Team: Roberta, Christoph & 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 +++ all
  - ✓ 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



4

- ✓ 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