# helita Documentation

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Helita is a Python library for solar physics focused on interfacing with code and projects from the Institute of Theoretical Astrophysics (ITA) and the Rosseland Centre for Solar Physics (RoCS) at the University of Oslo. The name comes from Helios + ITA.

# CHAPTER 1

## What is in helita?

Helita has the following packages:

- **io**: read/write files of different formats
- **obs**: a few modules to work with solar observations (mostly Hinode and IRIS)
- **sim**: modules to read/write and interact with input/output from simulations and radiative transfer codes
- **utils**: miscellaneous utilities, mostly mathematical modules such as curve fitting, interpolation, signal processing
- **vis**: visualisation modules, mostly working only in Jupyter.