yt_xarray: Facilitating Software Reuse Between Space and Earth Sciences

Contents

- Introduction
- Recent improvements to yt , yt_xarray
- Embedded Transformations within yt_xarray
- Utilizing Cloud Native data formats with yt_xarray
- Summary
- Technical Appendix

Authors

- Chris Havlin: University of Illinois Urbana-Champaign, School of Information Sciences,
- Matt Turk: University of Illinois Urbana-Champaign, School of Information Sciences,

Abstract

Copy/Paste

Introduction

Overview of the project.

Skip to main content





xarray: words: geo, NASA, cloud-native formats (zarr)

yt

more words

yt_xarray

more words

Recent improvements to yt, yt_xarray

- Geo-friendly improvements to yt
- yt_xarray: yt api access
- more

Embedded Transformations within yt_xarray

words

Utilizing Cloud Native data formats with yt_xarray

zarr via xr

xr backend allows zarr access: simple demo?

zarr with yt

zarr with yt paragraph or two

Summary

In summary

Technical Appendix

notebook requirements, notes on use of development branches, etc.

building this book

https://jupyterbook.org/en/stable/advanced/pdf.html

```
$ pyenv virtualenv 3.10.11 yt_NASA_SMD
$ pyenv activate yt_NASA_SMD
```

from top level

```
$ pip install -r requirements.txt
$ jupyter-book build yt_xr_2024/ --builder pdflatex
$ cp yt_xr_2024/_build/pdf/book.pdf ./yt_xr_2024.pdf
```