

STF8

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2024-01-04

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Welcome

Geospatial Data Science with Julia presents a fresh approach to data science with geospatial data and the

It contains best practices for writing *clean*, *readable* and *performant* code in geoscientific applications involving sophisticated representations of the (sub)surface of the Earth such as unstructured meshes made of 2D and 3D geometries.

By reading this book, you will:

1. Get a broader perspective on geospatial data
2. Learn advanced geostatistical algorithms
3. Reproduce practical **open source** examples

Most importantly, you will learn a set of geospatial features that is much richer than the [simple features](#) implemented in traditional geographic information systems (GIS).

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How to contribute?

First off, thank you for considering contributing to this book. It's people like you that make this project so much fun. Below are a few suggestions to facilitate the review process:

- Please be polite, we are here to help and learn from each other
- Try to explain your contribution with simple language
- References to textbooks and papers are always welcome
- Follow the code style in the examples as much as possible

This book is [open source](#) and fully reproducible thanks to the amazing [Quarto](#) project. You can edit the pages directly on GitHub and submit a pull request for review. If you are not familiar with this process, consider reading the [first contributions](#) guide.

Alternatively, you can render the book locally with the [Quarto VS Code Extension](#), which is the recommended method for reviewing more elaborate changes.

Getting involved

If you would like to get involved with the project, you can start by

- Citing the work in publications:

```
@book{Hoffimann2023,  
  title = {Geospatial Data Science with {{Julia}}},  
  author = {Hoffimann, Júlio},  
  year = {2023},  
  doi = {10.5281/zenodo.10150870},  
  url = {https://juliaearth.github.io/geospatial-data-science-with-julia}  
}
```

Foreword

test

I've always felt that something was off with existing approaches to geospatial data science in other programming languages. I remember sitting in the beautiful

partie I

Part I: Foundations

Zob

beauienatuie

on va avoir besoin d'un $(\Omega, \mathcal{F}, \mathbb{P})$

test

$$\mathfrak{F}aenasitea \lim_{t \rightarrow \infty} \tag{0.1}$$

$$AX \; = \; B \tag{0.2}$$

{#eq-1}

référence (??)

test

$$a = b \tag{0.3}$$

$$\leq c \tag{0.4}$$

Théorème 0.1 (Line). *The equation of any straight line, called a linear equation, can be written as:*

$$y = mx + b$$

See Théorème [0.1](#).

Définition 0.1 (estimateur convergent). aniesaie ae advanced

Proposition 0.1. *test*

Théorème 0.2 (Line2). *The equation of any straight line, called a linear equation, can be written as:*

$$y = mx + b$$

partie II

Part II: Transforms

1 chapitre 2

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2 refs

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