

Example Document: How to use the LatexDocumentClass

Riccardo Nicolaidis ²

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²mail@mail.mail

This is an example of how to use the `LatexDocumentClass`.

The `LatexDocumentClass` is a Python class that allows to create a Latex document in a very easy way.

It is built on top of the Latex Beamer class, and it is designed to create slides for presentations. I created this class because it may be useful for managing output Report data from simulations, data analysis, etc.

You only need to do the following steps:

- Import the `LatexDocumentClass` class from the `LatexDocumentClass.py` file
- Instantiate the class
- Set name, author, title, email, output directory
- Build the body of the document by adding the desired content
- Compile the document

The following commands are available:

- `LatexDocument.BeginSlide(<Title of the slide>)`
- `LatexDocument.EndSlide()` (to be used at the end of the slide, if not the slide will not be closed and you'll get an error)
- `LatexDocument.BeginItemize()` (to be used at the beginning of an itemize environment)
- `LatexDocument.EndItemize()` (to be used at the end of an itemize environment, if not the itemize environment will not be closed and you'll get an error)
- `LatexDocument.Item(<Text of the item>)` (to be used inside an itemize environment, if not you'll get an error)
- `LatexDocument.Body` (to be used for adding text to the body of the document)
- `LatexDocument.InsertFigure(<Path of the image>, <Caption of the image>)` (to be used for adding a figure to the body of the document)
- `LatexDocument.Compile()` (For compiling and generating the PDF file)

Example of a figure

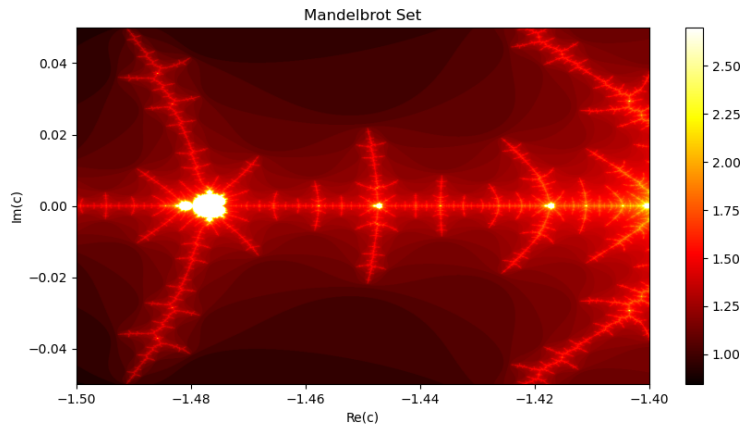


Figure: A beautiful Mandelbrot Set

Another interesting plot

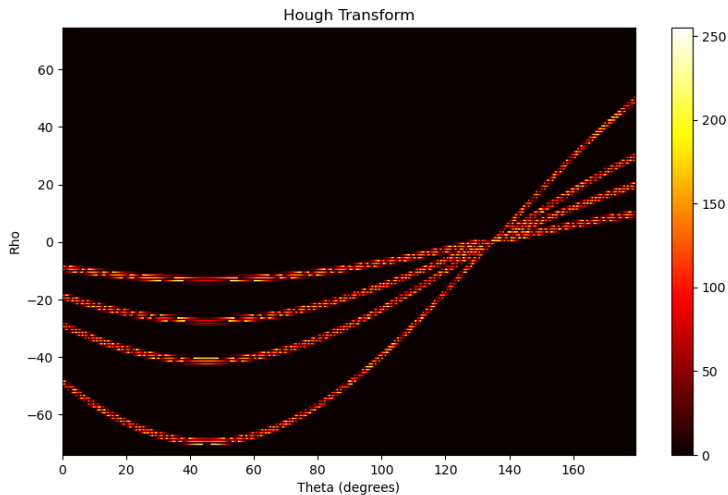


Figure: A beautiful Hough Transform

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