



# **Doctor**

### Elliott Phillips

/ellsphillips/doctor

23/03/2022

### Head's up!

I'm a full-time senior Data Scientist, currently on secondment and juggling projects as I go...

But more on that later...



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### Introduction

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An automated documentation assistant built in Python and TEX for procedural, data-driven reporting.

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**Doctor** provides services to simplify the reporting of data-oriented, beautiful, lightweight documents.

Transparent and opinionated, without the WYSIWYG faff.

### About – Journey

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### Personal side project

- ► LATEX University requirement
- Self-taught Python at ONS
- Wanted to inject flair whilst automating corporate documents

#### Business-critical application

- ► Lead project to deliver real-time financial estimates
- Complex data to visualise and communicate
  - Templated cohesion between report releases

#### nternal collaborative platform

- SCS requested
  S&T to National
  Statistician
- assembled cross-ONS development team
  - Coach colleagues in software design and effective versioning

# About - Journey

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# About - Journey

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- ► Lead project to deliver real-time financial estimates
- Complex data to visualise and communicate
- Templated cohesion between report releases

#### Internal collaborative platform

- ► SCS requested S&T to National Statistician
- Delivered demoes, assembled cross-ONS development team
- Coach colleagues in software design and effective versioning

Examples

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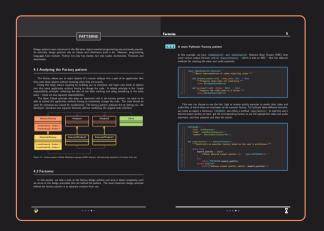
BRR demo

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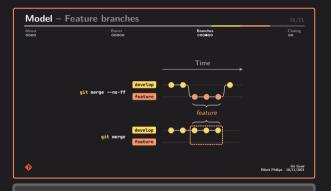
Contribution





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\$ git clone https://github.com/ellsphillips/git-book git-good



### **Examples**

**Examples** 

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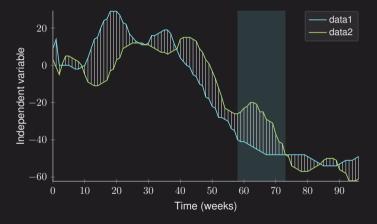
- Table

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- Plot

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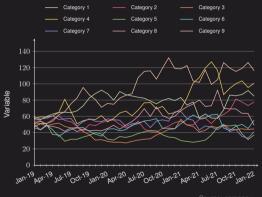
Plot – line





Plot – line

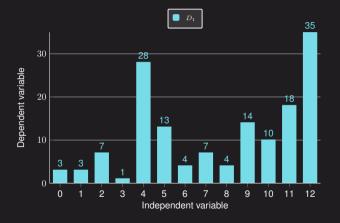
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Plot – bar

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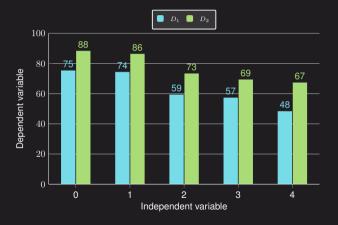
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```
1 | import doctor as dr
2
3
4 | def main() → None:
5 | ...
6
7
8 | if __name__ = "__main__":
9 | main()
```

Doctor

Installation – Module

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```
~/repo
   - ■ /doctor
   🗕 🖿 /document
               main.tex
             book.pdf
            slides.pdf
     /tests
   - app.py
     venv
```

API – Tables 15/23

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API – Plot

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```
figure = dr.plot(
 2
        "line"
        data={
 4
           "timeseries_2020": dr.data.series.brownian(),
 5
           "timeseries_2021": dr.data.series.brownian(),
6
           "timeseries 2022": dr.data.series.brownian().
 8
        options={
           "plot type" "ybar",
10
           "data source" "src/plots/example.dat",
11
           "caption": "Demonstration of the doctor-plot env",
12
           "label": "example-plot",
13
14
```

API – Document

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Document class API

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Contribution – Package

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- ▶ Refine and publish existing PoC test library
- ▶ Deliver testing fundamentals workshop
- ▶ Build robust testing suite for **≥octor**

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\$ pip install doctor



### Contribution Contribution

- GitHub

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Interested in contributing? **Doctor** is developed open source! Get it touch via email or create a pull request



# GitHub – Sharing is caring

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You're welcome to retain a copy and share this material with anyone who may benefit.

Please ★ this repository if you have found this material useful and to follow its development!







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