



## **Doctor**

### Elliott Phillips

/ellsphillips/doctor

23/03/2022

Example

Usag

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Contribution

# 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

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# About - Journey

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### Business-critical application

- ► 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

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$C_1$	$C_2$	$C_3$	$C_4$
а	b	С	d
е	f	g	h
i	j	k	ı

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BRR demo

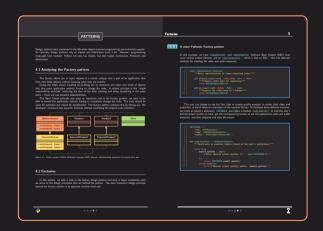
## **Users** – Learning & Development

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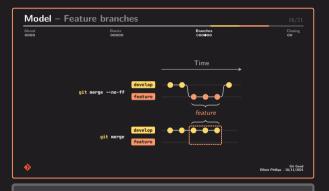


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\$ git clone https://github.com/ellsphillips/git-book git-good

# **Examples** Examples

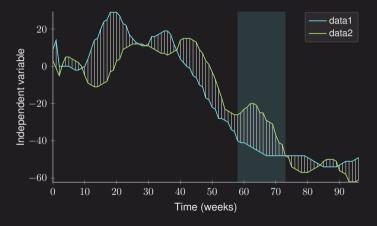
Usage

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Next step:

- Plot

Plot – line

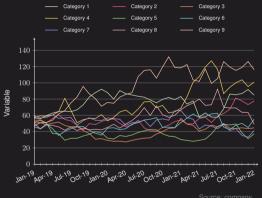




Plot – line

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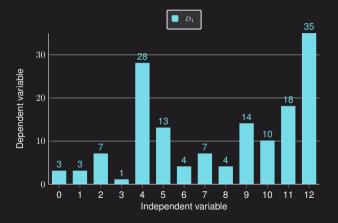
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Plot – bar

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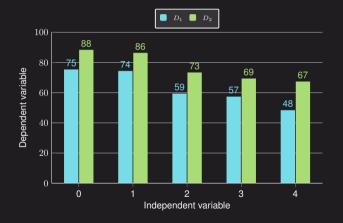




Plot – bar

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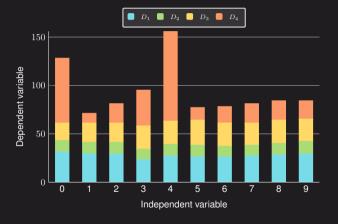
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- API

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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

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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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Package – Testing

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Build test suite

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\$ pip install doctor



# Contribution Contribution

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



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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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