



# **Doctor**

### Elliott Phillips

/ellsphillips/doctor

24/03/2022

**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...



Example

Usago

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Contribution

# Introduction

- About
- Users
- Design

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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
- Delivered demoes,
   assembled
   cross-ONS
   development team
  - Coach colleagues in software design and effective versioning

# About - Journey

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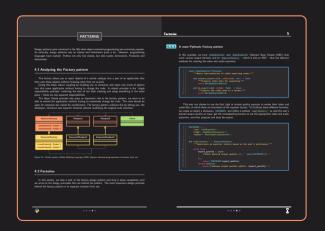
BRR demo

# **Users** – Learning & Development

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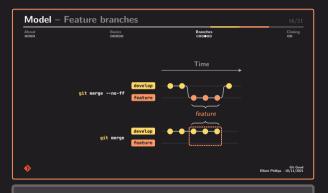






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\$ git clone https://github.com/ellsphillips/git-book git-good

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### Examples

**Examples** 

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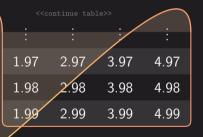
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а	b	С	d
е	f	g	h
i	j	k	1

$C_1$	$C_2$	$C_3$	$C_4$
а	b	С	d
е	f	g	h
i	j	k	- 1

Table – Flexibility 10/24

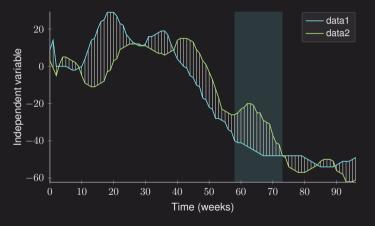
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$C_1$	$C_2$	$C_3$	C <sub>4</sub>
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1.01	2.01	3.01	4.01
1.02	2.02	3.02	4.02
1.03	2.03	3.03	4.03
1.04	2.04	3.04	4.04
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Plot – line

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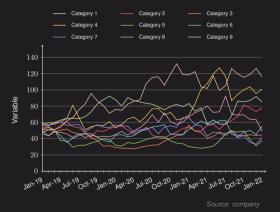




Plot – line

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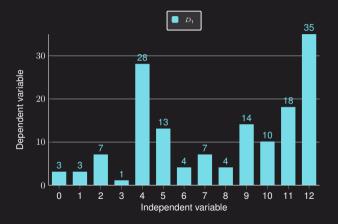
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Plot – bar

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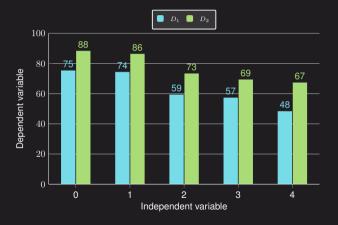
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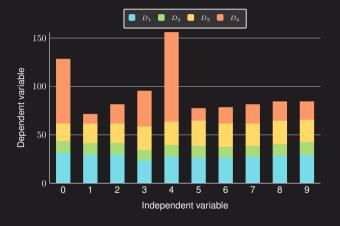




Plot – bar

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Examples

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- Installation

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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()
```

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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
```

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Document class API

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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

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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