



# **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

Next steps

Contribution

# Introduction

- About
- Users
- Design

 Introduction
 Examples
 Usage
 Next steps
 Contribution

 ●○○○
 ○○○○
 ○○○○
 ○○○
 ○○○



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

Introduction	Examples	Usage	Next steps	Contribution
00000	0000	00000	00	00

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

Transparent and opinionated, without the WYSIWYG faff.

# About – Journey

Introduction

Examples 0000 Usage 00000 Next steps

Contribution

### 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

Introduction

Examples 0000 Usage 00000 Next steps

Contribution

### 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
- software design and effective versioning

# About - Journey

Introduction

Examples 0000 Usage 00000 Next steps

Contribution 00

### 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

### 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

Introduction	Examples	Usage	Next steps	Contribution
000•0	0000	00000	00	00

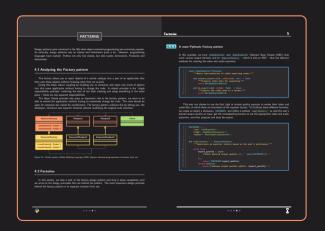
BRR demo

# **Users** – Learning & Development

Introduction

Examples 0000 Usage 00000 Next steps

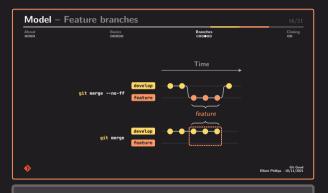






Examples 0000 Usage 00000 Next steps

Contribution



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

Doctor

### Examples

**Examples** 

Usag

- Table

Next steps

- Plot

Examples •000 Usage 00000 Next steps

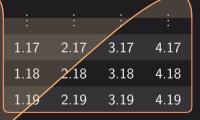
$C_1$	$C_2$	$C_3$	$C_4$
а	b	С	d
е	f	g	h
i	j	k	1

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

Examples

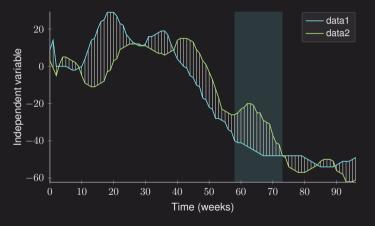
Usage 00000 Next steps

$C_1$	$C_2$	<i>C</i> <sub>3</sub>	C <sub>4</sub>
1.00	2.00	3.00	4.00
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
	/.		



Plot – line

Introduction Examples Usage Next steps Contribution occoo o

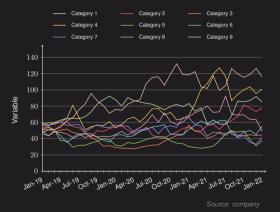




Plot – line

 Introduction
 Examples
 Usage
 Next steps
 Contribution

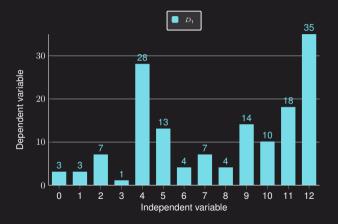
 ○○○○
 ○○○○
 ○○
 ○○
 ○○



Plot – bar

Introduction

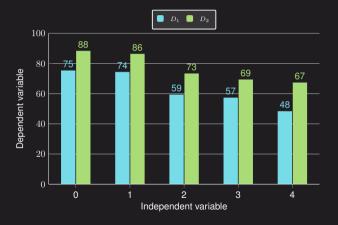
Examples ○○○● Usage 00000 Next steps





Plot – bar

Introduction 00000 Examples ○○○● Usage 00000 Next steps

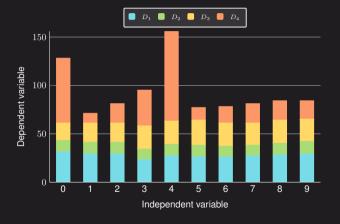




Plot – bar

Introduction

Examples ○○○● Usage 00000 Next steps



Examples

Usage

Usage

Next steps

- Installation

Contribution

- API

Examples 0000 Usage ●○○○○ Next steps

Contribution

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

Doctor

 Introduction
 Examples
 Usage
 Next steps
 Contribution

 0000
 0000
 0000
 0000
 0000
 0000
 0000
 0000
 0000
 0000
 0000
 0000
 0000
 0000
 0000
 0000
 0000
 0000
 0000
 0000
 0000
 0000
 0000
 0000
 0000
 0000
 0000
 0000
 0000
 0000
 0000
 0000
 0000
 0000
 0000
 0000
 0000
 0000
 0000
 0000
 0000
 0000
 0000
 0000
 0000
 0000
 0000
 0000
 0000
 0000
 0000
 0000
 0000
 0000
 0000
 0000
 0000
 0000
 0000
 0000
 0000
 0000
 0000
 0000
 0000
 0000
 0000
 0000
 0000
 0000
 0000
 0000
 0000
 0000
 0000
 0000
 0000
 0000
 0000
 0000
 0000
 0000
 0000
 0000
 0000



API – Tables

IntroductionExamplesUsageNext stepsContribution000000 ●0000 ●000000



API – Plot

 Introduction
 Examples
 Usage
 Next steps
 Contribution

 0000
 0000
 0000
 00
 00
 00
 00
 00
 00
 00
 00
 00
 00
 00
 00
 00
 00
 00
 00
 00
 00
 00
 00
 00
 00
 00
 00
 00
 00
 00
 00
 00
 00
 00
 00
 00
 00
 00
 00
 00
 00
 00
 00
 00
 00
 00
 00
 00
 00
 00
 00
 00
 00
 00
 00
 00
 00
 00
 00
 00
 00
 00
 00
 00
 00
 00
 00
 00
 00
 00
 00
 00
 00
 00
 00
 00
 00
 00
 00
 00
 00
 00
 00
 00
 00
 00
 00
 00
 00
 00
 00
 00
 00

```
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

 Introduction
 Examples
 Usage
 Next steps
 Contribution

 0000
 0000
 0000
 00
 00
 00

Document class API

Next steps

Next steps

Package

 Introduction
 Examples
 Usage
 Next steps
 Contribution

 0000
 0000
 ●0
 00

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

Examples 0000 Usage 00000 Next steps ○● Contribution



\$ pip install doctor



# Contribution Contribution

- GitHub

Introduction	Examples	Usage	Next steps	Contribution
00000	0000	00000	00	•0

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



# GitHub – Sharing is caring

Introduction Examples Usage Next steps Contribution oooo ooo oo oo

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!







## **Doctor**

# Elliott Phillips

/ellsphillips/doctor

24/03/2022