



# **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

Usag

Next steps

Contribution

### Introduction

- About
- Users
- Design

 Introduction
 Examples
 Usage
 Next steps
 Contribution

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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 requestedS&T to NationalStatistician
- assembled cross-ONS development team
  - software design and effective versioning

# About - Journey

Introduction

Examples 0000 Usage 00000 Next steps

Contribution

#### Personal side project

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# About - Journey

Introduction

Examples 0000 Usage 00000 Next steps

Contribution

#### Personal side project

- LATEX University requirement
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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

Introduction	Examples	Usage	Next steps	Contribution
00000	0000	00000	00	00

As technical project lead, requirement to transpose regular income data stream into a monthly insights report on businesses' resilience in response to COVID-19, delivering to CO...

 Introduction
 Examples
 Usage
 Next steps
 Contribution

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As technical project lead, requirement to transpose regular income data stream into a monthly insights report on businesses' resilience in response to COVID-19, delivering to CO...

Automate the boring stuff!

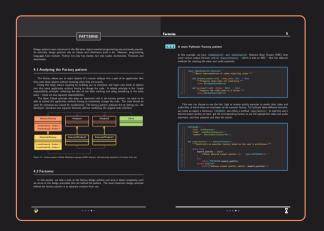


### **Users** – Learning & Development

Introduction

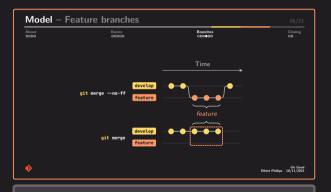
Examples 0000 Usage 00000 Next steps





Introduction ○○○○● Examples 0000 Usage 00000 Next steps

Contribution



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

Doctor

# **Examples** Examples

Usage

- Table

Next step

- Plot

Examples

Usage 00000 Next steps

Contribution

Table – Flexibility 10/24

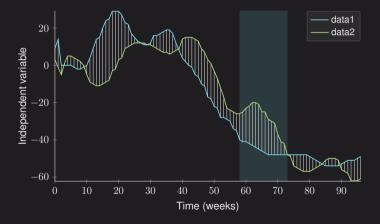
 Introduction
 Examples
 Usage
 Next steps
 Contribution

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$C_1$	$C_2$	$C_3$	$C_4$
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

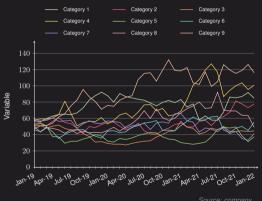
Introduction Examples Usage Next steps Contribution ooooo oo oo oo





Plot – line

IntroductionExamplesUsageNext stepsContribution00000000000000

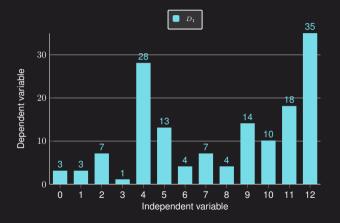


Doctor

Plot – bar

Introduction

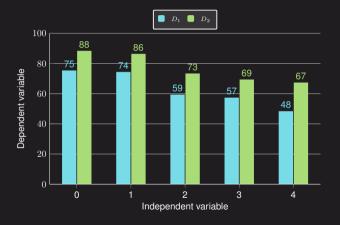
Examples ○○○● Usage 00000 Next steps





Plot – bar

Introduction 00000 Examples ○○○● Usage 00000 Next steps

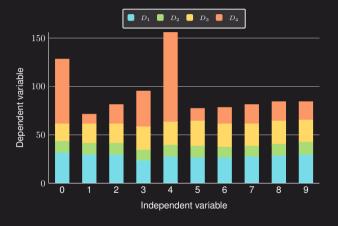




Plot – bar

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

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API – Tables

 Introduction
 Examples
 Usage
 Next steps
 Contribution

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API – Plot

 Introduction
 Examples
 Usage
 Next steps
 Contribution

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 0000
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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

 Introduction
 Examples
 Usage
 Next steps
 Contribution

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 0000
 0000
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Document class API

Examples

Usage

Next steps Nex

Next steps

Contribution

- Package

 Introduction
 Examples
 Usage
 Next steps
 Contribution

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

Example 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

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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