



Doctor

Elliott Phillips



23/03/2022

Example

Usag

Next steps

Contribution

Introduction

- About
- Users
- Design

 Introduction
 Examples
 Usage
 Next steps
 Contribution

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 00
 00
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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	00	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

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
 - Coach colleagues in software design and effective versioning

About - Journey

Introduction

Examples

Usage 00000 Next steps

Contribution

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About - Journey

Introduction

Examples

Usage 00000 Next steps

Contribution 00

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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

Usage 00000 Next steps

Contribution

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

Introduction	Examples	Usage	Next steps	Contribution
000000	00	00000	00	00

BRR demo

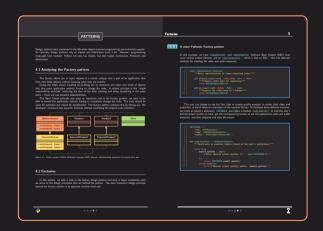
Users – Learning & Development

Introduction

Examples

Usage 00000 Next steps



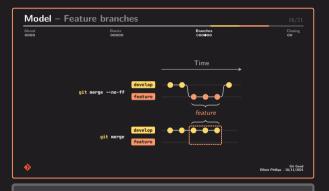


Users – Learning & Development

Introduction

Examples 00 Usage 00000 Next steps

Contribution



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

Examples Examples

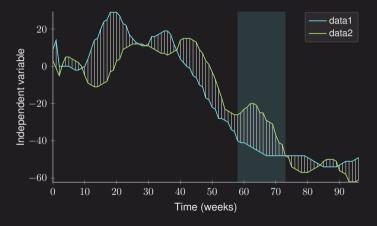
Usage

- Table

Next step:

- Plot

Plot – line

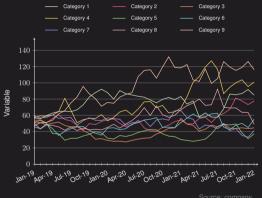




Plot – line

 Introduction
 Examples
 Usage
 Next steps
 Contribution

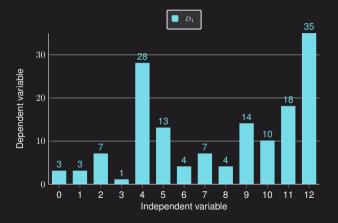
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Doctor

Plot – bar

Introduction 000000 Examples ○● Usage 00000 Next steps

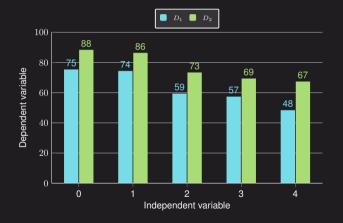




Plot – bar

Introduction

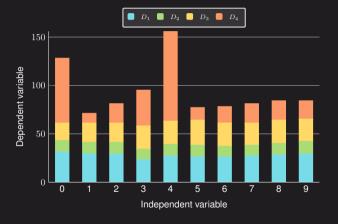
Examples ○● Usage 00000 Next steps



Plot – bar

Introduction

Examples ○● Usage 00000 Next steps



Examples

Usage

Usage

Next steps

- Installation

Contribution

- API

Examples

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

Installation – Module

Introduction Examples

Usage ○●○○○ Next steps

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

API – Tables

IntroductionExamplesUsageNext stepsContribution00000000 ●000000



API – Plot

 Introduction
 Examples
 Usage
 Next steps
 Contribution

 000000
 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

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 00
 0000◆
 00
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Document class API

Examples

Usage

Next steps Next steps

Contribution – Package

 Introduction
 Examples
 Usage
 Next steps
 Contribution

 00000
 00
 0000
 ●0
 00

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

Examples 00 Usage 00000 Next steps ○● Contribution





\$ pip install doctor



Contribution Contribution

- GitHub

Introduction	Examples	Usage	Next steps	Contribution
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Interested in contributing? **Doctor** is developed open source! Get it touch via email or create a pull request



Introduction 000000	Examples 00	Usage 00000	Next steps oo	Contribution ○●

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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/ellsphillips/doctor

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