



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...



Examples

Usage

Next step

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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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

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About - Journey

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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

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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...

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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...

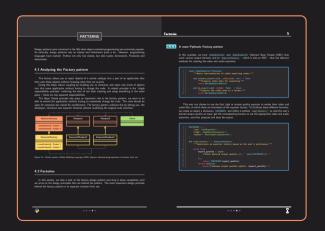
Automate the boring stuff!

Users – Learning & Development

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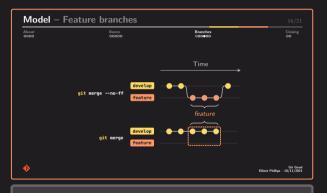




Users – Learning & Development

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

Doctor

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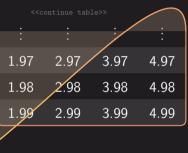
Contribution

Table – Flexibility 10/25

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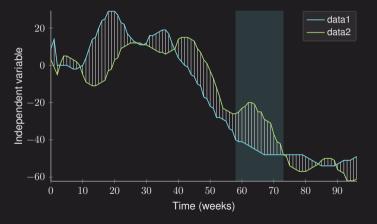
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Plot – line

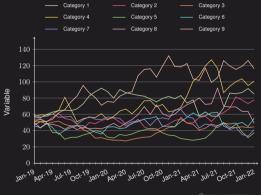
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Plot – line

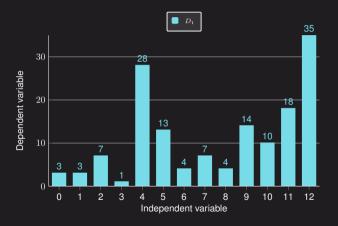
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Plot – bar

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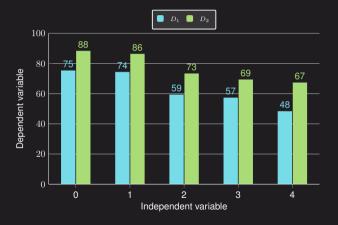




Plot – bar

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Plot – bar

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Examples

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- Installation

Contribution

- API

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Contribution

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

Doctor

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```
~/repo
    - ■ /doctor
    🗕 🖿 /document
                   main.tex
                book.pdf
                slides.pdf
      /tests
    \mathrel{\leftharpoonup} 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
```

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Document class API

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Contribution – Package

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



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Contribution

- 1. Charting library (Scatter, Pie, ...)
- 2. Choropleth support
- 3. Rendering local code with syntax highting

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n. Any ideas?

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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

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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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