Plutarchus Documentation

Beta 0.1

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1 Introduction

Plutarchus is an open source personal website building tool. It takes a JSON file and generates a website using the data in the JSON file. The JSON file is the dataset of the user's work. The websites that Plutarchus generates are static HTMLs, however Javascript and CSS are integrated to make then at par with modern web designs. Plutarchus v0.1 is designed to build resume websites. The examples and test cases are websites of academics and hence same are the target audience for v 0.1.

1.1 Why Plutarchus

There are a number of free website building tools available online. The key idea of the Plutarchus that separates it from other is that it generates a website from just a JSON file. Firstly, the user doesn't have to do any web design. Second, the user can maintain a JSON file of his work by simply adding entries to as new work is produced. The JSON file can be read as a dataset in various programming language for data analytics, etc.

The project that comes closest to Plutarchus is JSON Resume. However, JSON Resume isn't aimed websites that are frequently updated.

1.2 Examples

The personal website of Renuka Sane is generated from her JSON file

The JSON file contains the a tag for theme, the same website is generated again, with different theme here. 'Theme1a' has been changed to 'Theme2a' in the JSON file used to generate the second website.

A website can also be generated without a theme or with minimal theming. This is the same website without any theme. It doesn't contain any Javascripts and CSS files. This is called 'Theme 0' in the package.

2 Getting Started

There are broadly 2 steps.

- 1. Write a JSON file of your work
- 2. Build website using it by using the web app or the Command Line Interface.

2.1 Writing a JSON File

JSON, or JavaScript Object Notation, is a minimal, readable format for structuring data. It is used primarily to transmit data between a server and web application, as an alternative to XML.

Essentially, you follow some rules to write a text file and save the file using 'json' as the extension. There rules are fairly simple and can be understood by looking at an example. It's easiest to do it by editing the minimal JSON file provided in the package. There is also a JSON editor provided in the Commandline Interface of plutarchus and there is a webapp under development for the same (will release in v0.2).

There are two sections that you need to be there in the JSON file, 'basics' and 'entries'.

2.1.1 Basics

There are 7 items to be put in basic: theme, support, name, image, sort, email and pages. The theme tag tells the generator which theme to use. Example: 'theme': 'Theme1a'. If you say yes to support, there will be link to plutarchus on your page. The pages tag will the generator the names of the pages and the order. If the value given to sort is decending, it will sort the entries in decending order or dates. The rest are probably self explanatory.

An example of basics:

```
"basics": {
"theme":"Theme1a",
"support":"YES",
"name":"Renuka Sane",
"image":"http://saner.org.in/renuka1.jpg",
"sort":"descending",
"email":"renukas@gmail.com",
"pages":["Research","Pensions","Media","Criminal Justice"]
}
```

2.1.2 Entries

You add information about of your works in the entries section of the JSON file. It's list of elements each containing five items: page, date, section, sub-

section and entry. You may not put date, section and subsection, but page and entry are required. The page value tells the generator which page to put the entry in. The entry where text regarding the work is put. HTML tags can be put in the field for formatting, adding hyperlinks, images, etc. All hyperlinks must by put in single quotes.

example of an entry:

```
{
"page":"Criminal Justice",
"date":"10 May 2015",
"section":"The Indian criminal justice system",
"subsection":"Broad Work",
"entry":"<a href='http://ajayshahblog.blogspot.in/'>
Faulty tradeoffs in security</a>, by <h2>Ajay Shah</h2>,
Ajay Shah's blog" }
```

Add such elements to the entries section of your JSON file and separate them with commas.

2.1.3 HJSON File

A HJSON file is essentially JSON file in which you can add comments. There are some additional features like 'do what I mean' so if you make minor mistakes in formatting, the program (plutarchus) reading the HSJON might be able to correct them.

It's recommended to use a HJSON file. The minimal HJSON file provided in the package has comments that can guide you.

2.1.4 Converting from HJSON to JSON

You may want to convert your HJSON file to a JSON file. If your HJSON file is called work.hjson, you can convert it by running.

```
pip install hjson
hjson -j work.hjson > work.json
```

The first line install the hison converter and the second line does the conversion. It removes all the comments and also make corrections to all the mistakes in the formatting if any.

2.2 Website Generation

You can either use the Commandline Interface or the webapp to generate the website from the JSON file. The webapp will be updated less frequently as compared to the Commandline Interface.

2.2.1 Command Line Interface

Download the source code and run generate.py

```
$ git clone https://github.com/ayushpatnaikgit/plutarchus.git$
$ cd plutarchus
$ python generate.py ~/Documents/work.json
```

Change the location and name of your JSON file to point the program at your JSON file. If you are using a HSJON file, you need add hison package to python.

```
$ pip install hjson
$ python generate.py ~/Documents/work.hjson
```

This will generate a folder call website. This if your website. Replace hison with ison if your file extension is ison.

2.2.2 Graphics User Interface

Go to the web app in your favorite browser. Click upload and upload your json or hjson file.

3 Themes

In version 0.1, there are 2 themes that utilise JS and CSS, and there are 2 variants of each of theme two themes. The themes are located in the

assets/themes folder and they can be selected by giving one of the following options in to the "theme" tag in basics: Theme1a,Theme1b,Theme2a and Theme2b

3.1 Theme0

In addition to the two themes and their 2 variants, there is a basic html option as well. If "theme" in basics has value "Theme0", a basic HTML without JS and CSS will be produced.

3.2 Making Themes

The easiest way to make a theme is editing Theme0 and adding CSS and JS to it. However, Theme1 and Theme2 where make in a very different way. A free and opensource web template was downloaded and certain comments were added to make it complatible with Plutarchus. The comments are read by Plutarchus. More details regarding the method are in developer docs

4 Getting Help

Due to availablility of the web app, there is no need to download the package and install the dependancies, hence all the queries will be regarding the JSON file. For version 0.1, the **forum** would be the best platform. The **mailing list** is also another option. In future versions more examples will be available. We request the users of this service to provide their JSON and HJSON files so other users are use them as reference.

If you already has a website and you want to migrate, use the Latin-Plutarchus Migrating service. Most websites can be migrated under USD 20.