

Metadata

Course: DS 5100
 Module: 14 Python Packages
 Topic: HW Package Booklover
 Author: R.C. Alvarado
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Student Metadata

- Name: Kate Meldrum
- NetID: kmm4ap

Instructions

Follow the recipe we used in class to package the code you wrote for `HW09` -- `booklover.py` and `booklover_test.py`.

Here is the recipe:

- Create a new git repo for your package.
- Create and edit the required files and directories for your package and move the booklover modules there.
- Stage, commit, and push all the files you've created.
- Install your package with pip.
- Outside of your package dir, write a script to test your method.

Put this notebook in your repo. This will allow you to execute bash commands and capture the output directly in the notebook.

TOTAL: 8 POINTS

Q1

(5 points)

Show the directory structure of your repo by running this command from the root of your repo:

```
In [7]: import os
os.chdir('/Users/meldrumapple/Desktop/DS5100/HW14')
!ls -lR

total 72
drwxr-xr-x  6 meldrumapple  staff    192 Jul 11 12:44 Booklover.egg-info
-rw-r--r--  1 meldrumapple  staff   1071 Jul 11 11:05 LICENSE
-rw-r--r--  1 meldrumapple  staff  13386 Jul  1 13:23 M09-HW-BookLover-v2.ipynb
-rw-r--r--  1 meldrumapple  staff   5503 Jul 11 13:24 M14_HW.ipynb
-rw-r--r--  1 meldrumapple  staff     6 Jul 11 11:05 README.md
drwxr-xr-x  6 meldrumapple  staff    192 Jul 11 13:22 lovers
drwxr-xr-x  6 meldrumapple  staff    192 Jul 11 13:22 lovers.egg-info
-rw-r--r--  1 meldrumapple  staff    334 Jul 11 13:22 setup.py

./Booklover.egg-info:
total 32
-rw-r--r--  1 meldrumapple  staff   281 Jul 11 12:44 PKG-INFO
-rw-r--r--  1 meldrumapple  staff   209 Jul 11 12:44 SOURCES.txt
-rw-r--r--  1 meldrumapple  staff     1 Jul 11 12:44 dependency_links.txt
-rw-r--r--  1 meldrumapple  staff    10 Jul 11 12:44 top_level.txt

./lovers:
total 16
drwxr-xr-x  3 meldrumapple  staff     96 Jul 11 12:57 __pycache__
-rw-r--r--  1 meldrumapple  staff  1070 Jul  1 15:33 booklover.py
-rw-r--r--  1 meldrumapple  staff  1440 Jul  1 15:35 booklover_test.py

./lovers/__pycache__:
total 8
-rw-r--r--  1 meldrumapple  staff  1433 Jul 11 12:57 booklover.cpython-39.pyc

./lovers.egg-info:
total 32
-rw-r--r--  1 meldrumapple  staff   275 Jul 11 13:22 PKG-INFO
-rw-r--r--  1 meldrumapple  staff   146 Jul 11 13:22 SOURCES.txt
-rw-r--r--  1 meldrumapple  staff     1 Jul 11 13:22 dependency_links.txt
-rw-r--r--  1 meldrumapple  staff     1 Jul 11 13:22 top_level.txt
```

Q2

(1 point)

Put the URL of your GitHub repo here. Just paste it into a Markdown cell.

URL: <https://github.com/meldrumkathryn/HW14>

Q3

(1 point)

Show the results of installing your package.

```
!pip install -e .
```

(base) Kates-MacBook-Air:HW14 meldrumapple

pip install -e . Obtaining file : //Users/meldrumapple/Desktop/DS5100/HW14Installing collected packages : loversRunning setup.py develop for love

- 0.1(base) Kates - MacBook - Air : HW14meldrumapple

Q4

(1 point)

Create a file outside your repo (one level up) to test your package.

Import the package and run it. Specifically, create a BookLover object, add a book, and then print number books read.

Show the output of running the file below, using a command like the following:

```
!python ../book_lover_demo.py
```

```
In [13]: import os
os.chdir('/Users/meldrumapple/Desktop/DS5100/DS5100-2022-06-RA/lessons/M14')
!python hw_test.py
```

1