Welcome to The Carpentries Etherpad!

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Use of this service is restricted to members of The Carpentries community; this is not for general purpose use (for that, try https://etherpad.wikimedia.org).

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Links

Etherpad: https://pad.carpentries.org/2023-ADACS-ECR-WOrkshop
Workshop page: https://adacs-australia.github.io/2023_ASA_ECR_Python_Workshop/
Github for workshop: https://github.com/ADACS-Australia/2023_ASA_ECR_Python_Workshop
Webex link: https://curtin.webex.com/curtin/j.php?MTID=m8903270a10c0a1b9fbcfc3327ebead2c
Pauls' email for feedback / questions: paul.hancock@curtin.edu.au
Pre-workshop survey: https://forms.gle/cpoHF72b4Ah4k8co9
Post-workshop survey: https://forms.gle/HJR4ERAJRDEHZiFc6

PERTH

Adjusted schedule:
Monday 11:30 to 12:30 is Lunch/Journal club so we'll shift lunch earlier by 1/2 hour.
Thursday 11-12 there is a Seminar, so suggestion is tea-break -> seminar -> double session, open to suggestions.

How have you installed your python modules:?
Pip (venv), or Anaconda (conda, miniconda etc)

Anaconda

Miniconda to build the base, then pip

pip

Anaconda

Pip

Pylint exercise:

from random import * -> from random import uniform

rename sky-sim.py to sky_sim.py

import at the top of the code

print("{0:07d}, {1:12f}, {2:12f}".format(i, ras[i], decs[i]), file=f) -> print(f"{i:07d}, {ras[i]:12f}, {decs[i]:12f}", file=f)

Constant variable should be upper case (e.g ra, dec -> RA DEC)

Maybe place all global variables up below the imports

Commonly used python modules
numpy, scipy, astropy, matplotlib

scipy, numpy,seaborn,astropy,matplotlib,os,pandas

matplotlib, numpy, pandas, astropy

numpy, matplotlib, sys, h5py, os

numpy, astropy, matplotlib, os

multiprocessing, datetime, pprint (useful for printing dictionary structures), sqlite3, logging

astropy, matplotlib, numpy

Proect pitch ideas:
- a command line tool that will take an ra/dec and tell you which constellation it lies in,
- a tool to identify which satellites will be in your field of view during an observation,
- an anti-transient checker that will tell you if your transient is actually just the Moon/Jupiter/etc
- a pedantic radio astronomer's spell checker that wil identify incorrect uses of flux vs flux density,
- a single player version of Set! to keep you sharp during long observing runs,
- transform flat-sky pixels to HEALPix projection
- Sky simulation and visualisation
- a code that takes in different ways to input ra and dec (hh:mm:ss, etc)

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Groups for project work sessions

| group name | members | project description |

Breakout group 1: Jonghwan, Marcin, Nichole, Jason: Satellites in the field-of-view during an observation
Group 1: Nichole is setting up github: https://github.com/nicholebarry/turbo-guide
Please put your github name here: marcinglowacki cosmonomad JasonAhumada
A fine name
Are people able to join breakout session 1 and chat?
Sure

group2: Xi, Xiu, topic: a code that takes in different ways to input ra and dec (hh:mm:ss, etc)
name: super-rotary-phone
github name: XShao0062, Xiu0904

Group3: ?

DAY 2

If git complains about not knowing your username or email then do the following:
git config --global user.name <your user name>
git config --global user.email <your email address>

Day 3

---
tests for make_positions:

- check that the strings were split correctly
- check that DEC_STR and RA_STR exist
- test tolerance of ra, dec after conversion
- check that input ar indegrees, ie ra<360 and abs(dec)<90
- check the number of positions generated mtch the expected one

what other options would users like to have for the sky_sim script?

- An option to show plots

Day 4

Options:
1 - Break from 11-12 for Seminar,
2 - Regular schedule not breaking for Seminar X, x
3 - No preference,

3 I am also a different person
3 i'm a diffferent person
3

Consensus - Regular schedule.

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profiling

for statements are quite slow

Day 5

---
create a table called Subjects - solutions:

```
CREATE TABLE Subjects (
    "subject id" int,
    "title" varchar,
    PRIMARY KEY ("subject id")
);
```

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options
1 - group project discussions after lunch and then feedback session followed by more work
2 - work after lunch and do discussion/feedback after the tea break (3:30)
3 -

Sorry, I din't get involved in the groups

Sorry I will have a meeting 12:30-1:30, so will come back 2:00