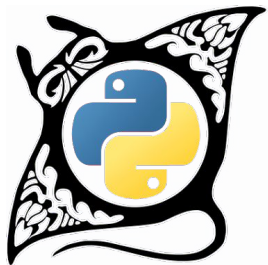


**Want wifi?**  
**ssid: boxjelly**  
**password: tweetusnow**



# pyhawaii



EXIF data extraction and location mapping

January, 2016

# Sponsors and supporters

Thanks to:

The Box Jelly! @theboxjelly

HiCapacity @hnlmakerspace

Dark Art of Coding @darkartofcoding

University of Hawaii

Pacific Center for Advanced Tech Training

Booz Allen Hamilton

# Agenda

Intro

Sign-in

Tech Talk

Free Play (if time allows)

# Contact info

`pyhawaii.slack.com <<< invite`

`http://www.meetup.com/PyHawaii-Python-Users-Group/`

`pyhawaii.com`

`info@pyhawaii.com`

`facebook.com/pyhawaii`

`twitter.com/py_hawaii`

`hicapacity.slack.com`

# Future

January 13: More dark python

January 20: Darker python

Data Analysis 7-part series ... TBA

# How can you help?

`info@pyhawaii.com`

We will help you find a way to contribute!

- planning: we are looking to grow our planning team
- execution
- goals
- advertising
- Share/Tweet/Like, etc...

# Topics

Programming setup (git, virtualenv, etc)

Downloading an image

Extracting EXIF data

Creating a KML file

Displaying the KML in Google Earth/Maps



# Programming setup

git

github

virtual environments

# Downloading an image

Tools include:

- BeautifulSoup

Other options...

- Requests

- Scrapy

# Extracting EXIF data

What is EXIF data?

Tools include:

- PIL

Other options...

- Pillow

# Creating a KML file

What is a KML file

Tools include:

- Manual

Other options...

- SimpleKML

- pykml

# Displaying the KML

Displaying the KML in:

Google Maps

Other Options...

Google Earth