Cheerlights – Part 4

Sending Tweets from Python

Install Twython

- Use pscp to transfer the file *pip-6.0.8.tar.gz* to from the Linux files folder to your Galileo
- Unpack this file by typing in Linux shell:
  `tar –zxvf pip-6.0.8.tar.gz`
- When it finishes, enter the new directory with the command `cd pip-6.0.8`
- Install pip with the command
  `python setup.py –install`
- When pip installs, install Twython with the command: `pip install twython`

Get Your Twitter API Keys

- Log on to your Twitter account
- Go to https://apps.twitter.com/
- Click **Create a New App**
- Make up a name a description about the Galileo workshop
- Use something official for the website, maybe http://www.insper.edu.br/
- Agree to the terms and create the app

Get Your Twitter API Keys

- Go to the **Keys and Access Tokens** tab on your app page
- Make note of your API Key and API Secret
- Click **Get Access Tokens**
- Make note of your Access Token and Access Token Secret

Setup the Python Script

- Open the *cheerlights_sender.py* script in a text editor
- Enter your API Key, API Secret, Access Token, and Access Token Secret in the designated spots
- Change the name variable to your name

Understand the Python Script

- It creates a Twython api object and uses it to update your Twitter status
- It uses the **sys** package to get the color from an argument on command line. When you run the code from the Linux shell, specify the color, ie:
  `python cheerlights_sender.py blue`
- The `random_word` piece exists so that tweets are unique (Twitter flags you as a bot if you attempt to tweet the same thing multiple times)

Common Problem:

- To fix a System Time Warning:

SystemTimeWarning: System time is way off (before 2014-01-01). This will probably lead to SSL verification errors

- Find the current UTC time at http://time.is/UTC

- Enter the following commands:

```
datetime 2015.04.10-12:00:00
```

Make sure your date is in YYYY.MM.DD format

```
hwclock --systohc
```