http://www.twitter.com/wugbot

```
from twython import Twython, TwythonError
import time, sys

APP_KEY = '...'
APP_SECRET = '...'
OAUTH_TOKEN = '...'
OAUTH_TOKEN_SECRET = '...'

twitter = Twython(APP_KEY, APP_SECRET, OAUTH_TOKEN,
OAUTH_TOKEN_SECRET)

naughty_words = [" -RT"]
good_words = ["wugbot", "#wugbot", "@wugbot", "WugBot",
"computational linguist"]
filter = " OR ".join(good_words)
blacklist = " -".join(naughty_words)
keywords = filter + blacklist

x = -1
while x < 0:
    search_results = twitter.search(q=keywords, count=50)
    try:
        for tweet in search_results["statuses"]:
            try:
                twitter.retweet(id = tweet["id_str"])
            except TwythonError as e:
                print e
            time.sleep(2)
    except TwythonError as e:
        print e
    time.sleep(100)
```

http://www.twitter.com/AllTheLanguages

```
from urllib import urlopen
import time, re, tweepy, sys

CONSUMER_KEY = "..."
CONSUMER_SECRET = "..."
ACCESS_KEY = "..."
ACCESS_SECRET = "..."

auth = tweepy.OAuthHandler(CONSUMER_KEY,
CONSUMER_SECRET)
auth.set_access_token(ACCESS_KEY, ACCESS_SECRET)
api = tweepy.API(auth)

languageCodes = ["eng","boi","vmj"]

def ethnologue(lngcode):
    url = "https://www.ethnologue.com/language/"+str(lngcode)
    html = urlopen(url).read()
    Language = re.search(r'(?<=\>)[^\<\>]+(?=\</h1\>)',html).group()
    Loc = re.search(r'(?<=[A-Z]"\>)[^\<\>]+(?=\</a\>\</h2\>)',html)
    Location = " of " + Loc.group() if Loc else ""
    End = re.search(r'(\>\d\d?\D? \()(\w+ ?\w+?)(?=\)\.)',html)
    Endangerment = " " + End.group(2) if End else ""
    return Language + " is a" + Endangerment.lower() + " language" +
Location + ". More info: " + url

while len(languageCodes) > 0:
    tweetLng = languageCodes.pop()
    api.update_status(ethnologue(tweetLng))
    time.sleep(4000)
```

Chapter 3, Practice Exercise 27 from http://www.nltk.org/book

```
import random
def laughter(n):
    laugh = ''
    while len(laugh) < n:
        laugh = laugh + random.choice('aehh ')
    return laugh
```

Today we'll combine bits of code from @wugbot and @AllTheLanguages, along with the answer to a practice exercise from the NLTK book, in order to make @WugLaugh!

You can read a blog post about the making of @wugbot here: http://wugbot.org/blog/?p=32

The rest of this page is intentionally blank so you can take notes!