

# Tutorial\_Session5

September 28, 2018

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## 1 Twitter

- Twitter can also be used to retrieve information about the tweets, connections, or followers of a user, or topics trending on Twitter.
- Information is shared on Twitter in the form of tweets. A tweet may contain photos, videos, links, and up to 140 characters of text.
- Twitter provides several APIs (Application Programming Interfaces) to access Twitter data such as user's profile information or tweets
- An API request on Twitter is first authenticated using Open Authentication (OAuth). OAuth allows the users to connect to Twitter and send authorized Twitter API request.
- For performing analysis on Twitter data, we need the package tweepy.

Commands for installing library tweepy

```
> pip install tweepy
```

### Steps for Open Authentication

```
In [4]: !pip install tweepy
```

```
Requirement already satisfied: tweepy in c:\users\ankit rajpal\anaconda3\lib\site-packages
Requirement already satisfied: requests>=2.11.1 in c:\users\ankit rajpal\anaconda3\lib\site-packages
Requirement already satisfied: six>=1.10.0 in c:\users\ankit rajpal\anaconda3\lib\site-packages
Requirement already satisfied: PySocks>=1.5.7 in c:\users\ankit rajpal\anaconda3\lib\site-packages
Requirement already satisfied: requests-oauthlib>=0.7.0 in c:\users\ankit rajpal\anaconda3\lib\site-packages
Requirement already satisfied: chardet<3.1.0,>=3.0.2 in c:\users\ankit rajpal\anaconda3\lib\site-packages
Requirement already satisfied: idna<2.7,>=2.5 in c:\users\ankit rajpal\anaconda3\lib\site-packages
Requirement already satisfied: urllib3<1.23,>=1.21.1 in c:\users\ankit rajpal\anaconda3\lib\site-packages
Requirement already satisfied: certifi>=2017.4.17 in c:\users\ankit rajpal\anaconda3\lib\site-packages
Requirement already satisfied: oauthlib>=0.6.2 in c:\users\ankit rajpal\anaconda3\lib\site-packages
```

You are using pip version 9.0.1, however version 18.0 is available.

You should consider upgrading via the 'python -m pip install --upgrade pip' command.

Step 1	• Go to website apps.twitter.com and sign in using Twitter username and password.
Step 2	• Click on 'Create new app' button on the page.
Step 3	• Fill credentials such as application name, description, and the URL where application will be hosted. After agreeing to terms and conditions, click on 'Create your Twitter application'.
Step 4	• In Keys and Access Tokens tab, Consumer Key and Secret are provided which can be regenerated.
Step 5	• The application can be authorized for making API calls by requesting regenerable Access Token and Access Secret by clicking on 'Create my access token'.

Variables associated with user object

Variable	Description
name	Name of the user.
screen_name	Handler/alias name of the user with which user uniquely identifies himself.
id	Unique id associated with every user's account.
created_at	UTC of the creation of user's account on Twitter.
location	User-defined location of his profile.
description	User's account description.
followers_count	Number of followers of the user.
friends_count	Number of users being followed.
favourites_count	Number of favourite tweets of a user.
statuses_count	Number of tweets of a user.
url	URL mentioned by the user in his profile.

## 1.1 Collecting User's Information

In [5]: `import tweepy`

```
def OAuthVerifier():
    """
    Objective: To authorize the application to access Twitter
    Input Parameter: None
    Return Value: API object
    """
    consumerKey = 'iym0XRGOS0gyP0jmlPQgB4XrC'
    consumerSecret = 'I6gBj8RpcXJvN6xaKUUGeTkPEDpHzIRXBmT9d9yG8k5IkOH0bF'
    authorization = tweepy.OAuthHandler(consumerKey, consumerSecret)
    accessToken = '727494459118653446-XWf9MmBJmCUOM7Ic9xvoH1ZCBQAWWA1'
    accessSecret = 'jl4UJPXYSC8ygV8EszNz6fMOW2NEs9NFvJc2InyfXNvve'
    authorization.set_access_token(accessToken, accessSecret)
    api = tweepy.API(authorization)
    return api

def getUserStatistics(user):
    """
    Objective: To get user statistics using various
    variables of the api
    """
```

```

Input Parameter: user - string
Return Value: None
'''

print('\nName: ', user.name)
print('Screen Name: ', user.screen_name)
print('ID: ', user.id)
print('Account creation date and time: ', user.created_at)
print('Location: ', user.location)
print('Description: ', user.description)
print('No. of followers: ', user.followers_count)
print('No. of friends: ', user.friends_count)
print('No. of favourite tweets: ', user.favourites_count)
print('No. of posted tweets: ', user.statuses_count)
print('Associated URL: ', user.url)

def main():
    '''
    Objective: To collect user information
    Input Parameter: None
    Return Value: None
    '''

    # To print user's information
    api = OAuthVerifier()
    # Authenticated User
    user = api.me()
    getUserStatistics(user)
    # Different User
    name = input('\n\nEnter the user identification: ')
    user = api.get_user(name)
    getUserStatistics(user)

if __name__ == '__main__':
    main()

```

```

Name: Suzzane Mathew
Screen Name: SuzzaneMathew
ID: 727494459118653446
Account creation date and time: 2016-05-03 13:46:10
Location: India
Description: A Pythn Programmer
No. of followers: 5
No. of friends: 34
No. of favourite tweets: 0
No. of posted tweets: 3
Associated URL: None

```

Enter the user identification: @mangeshkarlata

Name: Lata Mangeshkar

Screen Name: mangeshkarlata

ID: 155151279

Account creation date and time: 2010-06-13 07:32:59

Location: Mumbai, Maharashtra

Description: playback singer since 1942. <https://t.co/8BRJP3t7bx>

No. of followers: 13155767

No. of friends: 9

No. of favourite tweets: 1

No. of posted tweets: 2537

Associated URL: <https://t.co/3MBdzaKlVa>

## 1.2 Collecting Tweets Having Specific Words

- **StreamListener** class: used for collecting streaming tweets.
- Class **MyStreamListener** inherits the class **StreamListener** of the **tweepy** module.
- In the class **MyStreamListener**, we define two methods: **on\_status** and **on\_error**.
  - \* The method **on\_status** tells what to do when a status (input parameter) known as tweet update is received.
  - \* The method **on\_error** handles the error and gets automatically invoked on occurrence of an error.

```
In [ ]: import tweepy
```

```
class MyStreamListener(tweepy.StreamListener):
    # Class inheriting StreamListener of tweepy module

    def on_status(self, status):
        '''
        Objective: To print text stream of tweets
        Input Parameters:
            self (implicit parameter) - object of type
            MyStreamListener
            status - string value representing tweet
        Return Value: None
        '''
        print(status.text)

    def on_error(self, status):
        '''
        Objective: To disconnect the stream by returning False
```

```

        if error 420 occurs
        Input Parameters:
            self (implicit parameter) - object of type
            MyStreamListener
            status - int value representing error code
        Return Value: result - int
        '''
        if status==420:
            return False

def main():
    '''
    Objective: To print streaming data containing given keywords
    Input Parameter: None
    Return Value: None
    '''
    api = OAuthVerifier()
    # Creates a stream listener object listenerOb
    listenerOb = MyStreamListener()
    # Create a Stream object
    myStream = tweepy.Stream(api.auth, listenerOb)
    # Starts streaming by specifying search keywords
    searchList = eval(input('Enter search keywords list: '))
    myStream.filter(track = searchList)

if __name__ == '__main__':
    main()

```

Enter search keywords list: ['Python','Programming']

RT: Forest Edge ES #ForestEdgeES #Elementary #School for #Robotics #Programming at Royal Cyber

RT: Sunrise Valley ES #SunriseValleyES #Elementary #School for #Robotics #Programming at Royal

RT @LoharPrasanna: Which Programming language should you learn ? <https://t.co/WcwhuGg4Q8>

2 - ++

# #Programming #cplusplus

Diet-Microbiota Interactions Mediate Global Epigenetic Programming in Multiple Host Tissues - S

RT: Daniels Run ES #DanielsRunES #Elementary #School for 3D Game Programming (1-6th Grade) @ S

RT: Clearview ES #ClearviewES #Elementary #School for 3D Game Programming (1-6th Grade) @ STEM

@python NowTime: 2018/03/17 03:09:23.3863

TweetCount: 319

RT: Cub Run ES #CubRunES #Elementary #School for #Robotics #Programming at Royal Cyber Club h

RT @sensitiveemmett: i know people don't like daylight savings time because it screws up their

The Top 9 Technology of 2016 #javascript #Python <https://t.co/dPgXc3pcHe>

RT @DIBIADream: DREAM is proud to present our 2017 Impact & Initiatives Report. Continuing

Zigbee Showcased at CES2017 Path to Unified.. #programming # <https://t.co/iGxjc8RHzh>

RT @allen\_data: Python GUI Programming using Tkinter and Python 3

<https://t.co/UZktnwixdN>

#hadoop #spark <https://t.co/WYZ4mXu0c5>

RT @TheBrando2: Monty Python and the Holy Grail (1975) <https://t.co/purMRtV0vJ>

Global IIoT Technologies, Solutions... #programming # <https://t.co/RBuRZjmjrz>

Connectivity Foundation and AllSeen Alliance Team up... #javascript #Python <https://t.co/sEn4U>

Immediate Availability of ConnectCore for i.MX6UL Starter Kit... #javascript #Python <https://t.co/>

RT @enthought: You used to write #python like C code... @LEGOWorldsGame <https://t.co/0hVNLd96IS>

John Cleese taking a break on the set of Monty Python and the Holy Grail (1975) <https://t.co/YI>

VMs look to edge out gateways in push.. #javascript #Python <https://t.co/oWB0QapuA>

RT: Fairfax Community Church for #Programming cool games #STEMCamps #Kids #Education <https://t.co/>

RT: Fairfax Presbyterian Church for #STEM #Classes #Designing #Legos #Programming #Modeling #K

CVproof will connect with HR groups specifically and additionally through associations with re

RT: Centreville Presbyterian Church for #STEM #Classes #Designing #Legos #Programming #Modeling

RT: Korean Central Presbyterian for #Robotics #Programming #Modeling #STEMCamps #Kids #Education

Public libraries invited to apply for The Great American Read PBS programming grants

<https://t.co/oSzqpIxd0r>

RT @elpais\_cultura: Dice el ex Monty Python que sus integrantes son como la muchedumbre que as

RT: Centreville Farms Community Association for #Robotics #Programming #Modeling #STEMCamps #K

Programming Alert: Boxing promoter #DonKing joins @cvpayne to discuss he state of boxing as a s

RT: Pat White Center at Ben Lomond for #STEM #Classes #Designing #Legos #Programming #Modeling

RT: Church of the Good Shepherd for #Programming cool games #STEMCamps #Kids #Education <https://t.co/>

RT @Robzmob: #FridayMotivation ; ) They have #Programming . . . , but we have #Brains !! #TheStor

RT: Stenwood ES #StenwoodES #Elementary #School for 3D Game Programming (1-6th Grade) @ STEM S

RT @FoxBusiness: Programming Alert: Boxing promoter #DonKing joins @cvpayne to discuss he stat

Which are the most popular programming languages at hackathons? #hackathon #javascript #reactjs

<https://t.co/Z8R1xAKGAl>

How to run #Capybara feature specs with #Selenium and headless #Chrome #ruby #rails #rubyonrails

Do you have Python 2 code that urgently needs to get migrated to Python 3? Just @anthonympjshaw

RT @JRLibrarian: As requested - here are four weeks of programming ideas and activities reflect

RT @Hakin9: A Practical Introduction to Blockchain with Python <https://t.co/fwmWjrPH3a> #infosec

RT @feminnazty: Yo shut up I remember losing a whole day of programming cause Nickelodeon want

Ya kids will live while 17

STMicroelectronics Innovative.. #programming # <https://t.co/lV66oc9FyD>

New World of Intelligent Devices.. #programming # <https://t.co/c0xE9qxHqi>

RT @CodeWisdom: "Programming is the art of algorithm design and the craft of debugging errant c

RT: Center Ridge Region Home Owner for #Robotics #Programming Educational Classes For Kids <https://t.co/>

RT @DuncanGalbrait1: Monty Python - Life of Brian - PFJ Union meeting <https://t.co/jVlH3BdUSW>

Commercial Craft Brewing Appliances for... #programming # <https://t.co/9p9GGYiFzS>

RT: Chantilly Highlands Community for #STEM #Classes #Designing #Legos #Programming #Modeling #K

RT @WWEGraves: Im terribly sorry that your parents didnt love you enough. Here is some of the a

RT @abubakar47i: It mobilizes the smartest minds from >100 countries to apply their business

RT @KirkDBorne: Programming Languages for #DataScience and #MachineLearning (with samples of s

RT: London Towne ES #LondonTowneFCPS #Elementary #School for #Robotics #Programming at Royal C

RT @jeremynewberger: .@SeanHannity and @IngrahamAngle scolding @ShepNewsTeam on how newsy their

@python NowTime: 2018/03/17 03:10:33.7043

TweetCount: 321

RT: Stacy C. Sherwood Community Center for #Robotics #Programming Educational Classes For Kids

Practical Python Data Science Techniques

<https://t.co/wRehxtDtxn>

#bigdata <https://t.co/eC9H5UTA65>

RT @lucasoft\_co\_uk: RT @Hakin9: A Practical Introduction to Blockchain with Python <https://t.co/8Mgyx6yymE>

RT: Brookfield ES #BrookfieldES #Elementary for #Programming #MinecraftModding at Royal Cyber Club

RT: Herndon ES #Herndon\_ES #Elementary #School for 3D Game Programming (1-6th Grade) @ STEM Summit

RT: Herndon Community Center for #Robotics #Programming #Modeling #STEMCamps #Kids #Education

RT: Grace Covenant Church for #Robotics #Programming #Modeling #STEMCamps #Kids #Education <https://t.co/8Mgyx6yymE>

Yay for cool graphs and charts in your reports! <https://t.co/8Mgyx6yymE>

RT: Grace Covenant Church for #Programming cool games #STEMCamps #Kids #Education <https://t.co/8Mgyx6yymE>

@IngrahamAngle No he is right. Your programming is illegit propaganda

RT: Greenbriar Community Center for #Robotics #Programming Educational Classes For Kids <https://t.co/8Mgyx6yymE>

RT @FoxBusiness: Programming Alert: Peter Thiel sits down with @MariaBartiromo for an exclusive

RT @FoxBusiness: Programming Alert: Boxing promoter #DonKing joins @cvpayne to discuss he state

#OpenGL #Programming #Math #Matrix #CPP #Developers #GLSL Reminder: your regular modelview (MV)

RT: Lord of Life Lutheran Church for #Robotics #Programming Educational Classes For Kids <https://t.co/8Mgyx6yymE>

RT: Centreville Presbyterian Church for #STEM #Classes #Designing #Legos #Programming #Modeling

RT @ReaktorNow: Together with @helsinkiuni we are developing a free online course called the E

RT @SecurityTube: Python for Pentesters: Directory Navigation <https://t.co/8yaK0A4T09> <https://t.co/8yaK0A4T09>

RT: Daniels Run ES #DanielsRunES #Elementary #School for 3D Game Programming (1-6th Grade) @ STEM Summit

RT @Aly\_Raisman: Please join the effort to address sexual abuse in sport. I have partnered with

QISKit: quantum computing with python <https://t.co/utOD9Sbrv6> via @IBMCode

RT: Center Ridge Region Home Owner for #Robotics #Programming #Modeling #STEMCamps #Kids #Education

RT: Aldrin ES #AldrinEagles #Elementary #School for 3D Game Programming (1-6th Grade) @ STEM Summit

RT @Mason9780: New technology is now making it possible for viewers to record and store high de

RT @christi3k: I'm looking for my next gig as a software engineer or developer advocate in Port

RT: Centreville Baptist Church for #Robotics #Programming Educational Classes For Kids <https://t.co/8Mgyx6yymE>

RT @FoxBusiness: Programming Alert: Boxing promoter #DonKing joins @cvpayne to discuss he state

Comienza #BetaBeersODB con @JAR\_omero hablándonos de Django #python <https://t.co/FfQgR8R7cA>

Over 1600 students in 22 programs... 75 in #engineering... plus 100% of last year's welding gra

I'm excited to attend "Using Scratch Programming to Teach World Language" at CABE 2018. Come w

RT: Sully Station Community Center for #Robotics #Programming Educational Classes For Kids <https://t.co/8Mgyx6yymE>

RT: Powell ES #ColinPowellES #Elementary #School for #Robotics #Programming at Royal Cyber Club

RT @Hakin9: A Practical Introduction to Blockchain with Python <https://t.co/m8vK9WUzHU> #infosec

RT: Centreville Community Church for #STEM #Classes #Designing #Legos #Programming #Modeling #

RT @svpersof: Hello everyone! I got accepted into my study abroad program to learn about intern

RT @FoxBusiness: Programming Alert: Boxing promoter #DonKing joins @cvpayne to discuss he state

RT @KitPloit: Powershell-RAT - Python Based Backdoor That Uses Gmail To Exfiltrate Data Through

@mia\_0327 <https://t.co/oopF1g9ThH>

RT: Aldrin ES #AldrinEagles #Elementary for #Programming #MinecraftModding at Royal Cyber Club

RT @chris\_\_martin: The "domain object" pattern was one of the most destructive forces at my fir

RT: Floris United Methodist Church for #STEM #Classes #Designing #Legos #Programming #Modeling

RT @mocityschool: Did you see @TheSpec article about our Intro to Construction for Women cour

RT: Clearview ES #ClearviewES #Elementary for #Programming #MinecraftModding at Royal Cyber Club

RT: Daniels Run ES #DanielsRunES #Elementary #School for 3D Game Programming (1-6th Grade) @ STE  
RT @WWEGraves: Im terribly sorry that your parents didnt love you enough. Here is some of the a  
RT @BigDataFr\_: Offre de Stage HPC Ingénieur/Bac+5 Maths-Info  
Cuda, Python, NumPy, Scikit-Learn, Keras, Caffe, <https://t.co/z4ex4T1KRA>  
<https://t.co/meDjQfnVam> [ Programming & Design ] Open Question : SQL database in trouble?  
fun time remote pair programming to practice C++ TDD  
with a @TKPJava graduate <https://t.co/0uzn8r2a0S>  
@python NowTime: 2018/03/17 03:11:44.773  
TweetCount: 323  
RT: Sully Station Community Center for #Robotics #Programming Educational Classes For Kids ht  
This is going to strangle entrepreneurs and small sellers. A \$12 Etsy sale will now not only ha  
The new Conditional Types capabilities in @typescriptlang 2.8 move the language even more firm  
RT: Virginia Run ES #VirginiaRunES #Elementary for #Programming #MinecraftModding at Royal Cybe  
RT @FoxBusiness: Programming Alert: Boxing promoter #DonKing joins @cvpayne to discuss he statu  
We're at a standstill at work because my boss's boss never gives us a programming budget and j  
RT: Crossfield ES #CrossfieldES #Elementary for #Programming #MinecraftModding at Royal Cyber C  
RT: Greenbriar Community Center for #Robotics #Programming #Modeling #STEMCamps #Kids #Education  
Excellent! Thanks for PRIMM-ing!! @KingsECS <https://t.co/2QjyawHVU4>  
Canterbury Woods ES #Canterbury\_Wood #Elementary #School for 3D Game Programming (1-6th) @ STE  
RT @gethackteam: Which are the most popular programming languages at hackathons? #hackathon #j  
<https://t.co/Z8R1x>  
RT: Summer Camp registration is open! STEM, Minecraft, Robotics, Game Design, Game Programming  
@JDM1114 & @GregHughesNBCSG You guys are better than this, right? If not, we can help. #sur  
RT @saeedamenfx: the master of Python @dyjh speaking! Great talk, always learn something new fr  
Real Good Community Programming only on 91.1 The Bridge! <https://t.co/2mQ6K9uLw2> on #Podbean  
Real Good Community Programming only on 91.1 The Bridge! <https://t.co/qs54crPbj5> on #Podbean  
Real Good Community Programming only on 91.1 The Bridge! <https://t.co/R6Qzg2fYaz> on #Podbean  
RT @lucasoft\_co\_uk: RT @Hakin9: A Practical Introduction to Blockchain with Python <https://t.co/>  
RT @WWEGraves: Im terribly sorry that your parents didnt love you enough. Here is some of the a  
Thanks for having us! <https://t.co/CJTJfpVhHd>  
I wish I had more people to work out with. I love seeing different people's programming and go  
RT: #STEM #Robotics #Programming #Modeling #STEMCamps #Kids #Education at Royal Cyber Club ht  
RT @WWEGraves: Im terribly sorry that your parents didnt love you enough. Here is some of the a  
RT @LorenaABarba: I'm making an open online course with the first module of our computing cours  
RT @jcldf: Python based backdoor that uses Gmail to exfiltrate data as an e-mail attachment.

This RAT will help someone during red team en  
Por isso que eu digo que os caras do Monty Python eram gênios. <https://t.co/vT7uGGUxmh>  
I know I complain a lot, and freak out a lot, but let me first say that I am blessed to have a  
RT: Poplar Tree ES #PoplarTreeES #Elementary #School for #Robotics #Programming at Royal Cyber  
Practical Python Data Science Techniques

<https://t.co/ndqjsgz0pp>

#bigdata <https://t.co/54gkBmNjMD>  
RT @CodeWisdom: "Everyday life is like programming, I guess. If you love something you can put  
RT @SecurityTube: Python for Pentesters: Directory Navigation <https://t.co/8yaK0A4T09> <https://t.co/>  
RT @dustmop: Hi! I'm a full-stack / backend freelance engineer looking for part-time contract v



RT @mlemweb: Our Digital Humanities Workshop is tomorrow! @dustyweb and I are finalizing our t  
RT: Southgate Community Center for #Robotics #Programming #Modeling #STEMCamps #Kids #Education  
Our Education Program partners with Inwater Research Group to promote quality educational progr  
RT @TalkPython: Do you have Python 2 code that urgently needs to get migrated to Python 3? Just  
RT: Aldrin ES #AldrinEagles #Elementary #School for #Robotics #Programming at Royal Cyber Club  
@briangcronin That's the main ingredient to making great programming videos -- great content an  
RT @Onitaset: New working theme: "Today we will discuss how you are failing Black people and wh  
RT @WWEGraves: Im terribly sorry that your parents didnt love you enough. Here is some of the a  
RT @jdmorenob: aDiario Lenguajes de programación! <https://t.co/RE7n2nBgni> #in Gracias a @danie  
Join Jules Damji (@2twitme) @ApacheSpark & Community Advocate at @Databricks to learn how t  
RT @mlemweb: Our Digital Humanities Workshop is tomorrow! @dustyweb and I are finalizing our t  
RT: Reston Community Center for #STEM #Classes #Designing #Legos #Programming #Modeling #Kids  
@scuttlingvoid prob a piebald ball python ye !!  
i always feel so powerful learning programming but then one mistake happens that wrecks all my  
RT @ReaktorNow: Together with @helsinkiuini we are developing a free online course called the E  
I just liked Introduce 'JS Weight tracer' Python Effector by @oinon on #Vimeo: <https://t.co/20>  
@\_Zanele Oh no. Imagine being a python just nje.  
For even more #Python training, come to my sessions at #FedGIS next week! <https://t.co/cV9uUj9>  
7 Ridicuous Complaints the FCC Received About WWE's Programming <https://t.co/Hm39lzhZNp> <https://t.co/20>  
Mastering Bitcoin: Programming the Open Blockchain 2nd Edition, (Kindle Edition) <https://t.co/20>  
Deciding between a beardie or a ball python is one of the hardest decisions ive ever made  
RT: Centreville Community Church for #STEM #Robotics #Programming #Modeling #STEMCamps #Kids #  
Michael Palin is the only good, nice boy from Monty Python  
RT: Forest Edge ES #ForestEdgeES #Elementary #School for #Robotics #Programming at Royal Cyber  
RT @CyberToolsBooks: Pro Bash Programming teaches you how to effectively utilize the Ba <https://t.co/20>  
@annehelen @shannoncoulter Thats been my opinion for a number of years, sadly. Its really taint  
Modern Serverless Python on Coherence API <https://t.co/Hgtsd0Y6ne>  
Keyword Generator <https://t.co/Ic71uaiuFV>  
@john\_overholt The least known member of Monty Python finally makes headlines. He shoukd have s  
RT: McNair Farms Community Center for #Programming cool games #STEMCamps #Kids #Education <https://t.co/20>  
RT @WWEGraves: Im terribly sorry that your parents didnt love you enough. Here is some of the a  
It's the clarity of F#'s type and function signatures that I miss the most when programming in  
@BenedictEvans I do all my programming now off a macbook pro with the touchpad, full screen wi  
RT @RealDebrid: @TeamZT\_ @jsergio123 The guy is just a piece of shit providing a shitty fix the  
RT @SetonMontessori: Jennifer Nolan contributed a beautiful blog post about our intergeneratio  
RT: Reston Community Center for #STEM #Robotics #Programming #Modeling #STEMCamps #Kids #Educa  
RT @abubakar47i: It mobilizes the smartest minds from >100 countries to apply their business  
python  
Macromedia Mx Elearning: Advanced Training From The Source <https://t.co/3T2VxqJYJ8> #Ruby #prog  
Python Networking: FTP Programming <https://t.co/oHutevQjI9>  
RT @lamifunami: #SignalsNetwork  
Signals is developing a platform for building, training and monetizing crypto trading strategi  
@UKRobotWars Im sure theyll fund some educational programming instead, say more baking or taler  
RT: Willow Springs ES #WSESfox #Elementary for #Programming #MinecraftModding at Royal Cyber C  
RT: Cherry Run ES #CherryRunES1 #Elementary #School for 3D Game Programming (1-6th Grade) @ ST  
@1776Stonewall @IngrahamAngle @FoxNews I'm down to @cvpayne & @LouDobbs ...thats it for any  
@YYCBoarder @NewWorldHominin @FaithGoldy Invading a country using immigration and neuro lingu  
!! @BCBTigers all players bites like a python! #BANvSL #SLvBAN <https://t.co/Fvg0oJ4w88>

RT @Hakin9: A Practical Introduction to Blockchain with Python <https://t.co/m8vK9WUzHU> #infosec  
RT @sensitiveemmett: i know people don't like daylight savings time because it screws up their  
RT: Greenbriar Community Center for #Programming cool games #STEMCamps #Kids #Education <https://t.co/3oCq4x44p4>  
RT: Little Run ES #LRroadrunner #Elementary #School for 3D Game Programming (1-6th Grade) @ STEM S  
Most Python fans aren't Trump fans. <https://t.co/WVnni846Dj>  
Why is Python so good for AI and Machine learning?

<https://t.co/dwYr04TMiC>

@PegCoversTheLaw @steveury Thank you for these midwinter meeting tweets! ABABLEL Committee midw  
Pandas Cookbook: Recipes For Scientific Computing, Time Series Analysis And Data <https://t.co/3oCq4x44p4>  
RT @SecurityTube: Python for #Pentesters: Introduction to Python and Setting Up an Environment  
@python NowTime: 2018/03/17 03:14:06.045  
TweetCount: 327  
Introduction to the Python 3 Programming Language - #python course by @wfbbutton <https://t.co/XS>  
RT @FoxBusiness: Programming Alert: Boxing promoter #DonKing joins @cvpayne to discuss he statu  
RT: Deer Park ES #DeerParkFCPS #Elementary #School for #Robotics #Programming at Royal Cyber C  
High Performance Python: Practical Performant Programming For Humans <https://t.co/3oCq4x44p4>  
@rickathy227 @talace @cheechablunt @Nickelodeon @DLoesch (Someone might want to warn her that l  
RT @lfcseattle: @JDM1114 & @GregHughesNBCSG You guys are better than this, right? If not, v  
RT @fabienLeboeuf: Need to alter Hip joint centre positions of the Conventional Gait Model (#C  
@santome7 @thehill Smith is fact based programming. Hannity is opinion based programming. Its a  
RT @jeffgiesea: ESPN infused its programming with "social justice," ratings declined, and now v  
RT @CsChapters: Hurry up! Today is the last day to register for @CsharpCorner Gurgaon Chapter M  
RT @ITSax: FPGA-Entwickler / VHDL-Entwickler (m/w) in Freital/Dresden in Freital , #FPGA #VHDL  
RT: Greenbriar Community Center for #Robotics #Programming #Modeling #STEMCamps #Kids #Education  
C/C++ Programming Course Near Sector-72 C and C++ Programming are mu..For more info visit... h  
RT: Canterbury Woods ES #Canterbury\_Wood #Elementary #School for 3D Game Programming (1-6th) @  
RT: McNair ES #FCPSMcNairES #Elementary for #Programming #MinecraftModding at Royal Cyber Club  
RT @RichRogersIoT: Programming is about 13% math, 15% theology and the rest is just looking str  
System engineers also do programming.  
RT @UPROXX: Netflix has a lovely stockpile of action television programming to binge through. M  
RT: Greenbriar Community Center for #Robotics #Programming Educational Classes For Kids <https://t.co/3oCq4x44p4>  
RT: Korean Central Presbyterian for #STEM #Classes #Designing #Legos #Programming #Modeling #K  
#redfarmers <https://t.co/m0ef9bxbmR>  
RT: Powell ES #ColinPowellES #Elementary #School for 3D Game Programming (1-6th Grade) @ STEM S  
RT: McNair Farms Community Center for #Robotics #Programming #Modeling #STEMCamps #Kids #Education  
@navytheplug Yep, had a couple.

In church, business, life coach and programming

There is a need to integrate climate change issues into the development planning process at al  
RT @YourSmartyBro: Python GUI Programming Projects using Tkinter and Python 3 <https://t.co/ENS>  
RT @christi3k: I'm looking for my next gig as a software engineer or developer advocate in Port  
RT: Centreville Baptist Church for #Programming cool games #STEMCamps #Kids #Education <https://t.co/3oCq4x44p4>  
RT @FoxBusiness: Programming Alert: Boxing promoter #DonKing joins @cvpayne to discuss he statu  
RT @bheklilr: I'm a mid-level Python developer with plenty of experience in data analysis with  
RT: Centreville Community Church for #STEM #Classes #Designing #Legos #Programming #Modeling #  
Week in Review: Oct 30 Nov 5 #programming # <https://t.co/Ef6Aw0z0yY>  
RT @oliverdarcy: Hate to sound like a broken record, but this once again underscores the divid

RT @WWEGraves: Im terribly sorry that your parents didnt love you enough. Here is some of the a  
 Modify your own #reports in #Microsoft #DynamicsNAV & stay #supported! Find out more about  
 RT: Powell ES #ColinPowellES #Elementary #School for 3D Game Programming (1-6th Grade) @ STEM S  
 RT: Grace Covenant Church for #STEM #Robotics #Programming #Modeling #STEMCamps #Kids #Education  
 RT @oliverdarcy: Hate to sound like a broken record, but this once again underscores the divide  
 If you're looking for a job for next semester, look no further!  
 Applications for Campus Activities Programming Boar <https://t.co/qEj3befIu5>  
 RT: Pat White Center at Ben Lomond for #Robotics #Programming #Modeling #STEMCamps #Kids #Education  
 RT: Fairfax Villa ES #FairfaxVillaES #Elementary for #Programming #MinecraftModding at Royal Cy  
 Emploi Societe Generale SGCIB : Developpeur Fonctionnel Commando Risque et PnL H/F... <https://t.co/1K1>  
 Twitter wants to promote more on-demand viewing as it seeks new deals for live shows ahead of t  
 RT @AML\_WorldWide: Join Us In @KCMO #KansasCityMO for Your 50th Anniversary Miss Black America  
 "BETA PROGRAMMING" SINGLE + VIDEO OUT NOW!

"SAVAGE BEAUTY" DROPS MARCH 23 on @elemental\_95

<https://t.co/UuwYwFPwS3>

Next #post form my series about #Programming #DesignPatterns today about #Prototype #code in #  
 C/C++ Programming Course Near Sector-74C and C++ Programming are mus..For more info visit... h  
 Understanding gender roles in agriculture, making programming accessible for all. <https://t.co/1K1>  
 RT @pvanheus: I finished teaching my Introduction to Python for Bioinformatics course for the y  
 RT: Centreville Community Church for #Robotics #Programming Educational Classes For Kids <https://t.co/1K1>  
 RT: Centreville Baptist Church for #STEM #Classes #Designing #Legos #Programming #Modeling #Kids  
 PythonLINE (1) - <https://t.co/60QxKSEsIx>  
 RT @qiita\_python: PythonLINE (1) - <https://t.co/60QxKSEsIx>  
 RT: Compton Village Homeowners for #Robotics #Programming Educational Classes For Kids <https://t.co/1K1>  
 RT: Sully Station Community Center for #Robotics #Programming #Modeling #STEMCamps #Kids #Education  
 RT: #Robotics #Programming Educational Classes For Kids at Royal Cyber Club <https://t.co/iD6Z>  
 #fortysevenbank, #gofortyseven <https://t.co/vC2r3uKZl8>  
 RT @CodeWisdom: "Programming is the art of algorithm design and the craft of debugging errant c  
 RT @wimlds: Plotcon Boston is happening April 14-15. There are 2-day workshops for:  
 1) Dash  
 2) R, Shiny and DashR  
 3) Getting Started wi  
 @psykogrl @Michael\_Fisher\_ @gdlittledorf @Mikel\_Jollett It was when contracts with CNN ran out  
 RT: Centreville Farms Community Association for #STEM #Robotics #Programming #Modeling #STEMCar  
 RT: Herndon ES #Herndon\_ES #Elementary #School for #Robotics #Programming at Royal Cyber Club  
 RT @byLilyV: TRENDING #UDEMY #COURSES

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Using yield is an easy way to make collections lazy #csharp ã#devops #webops #aspnet #coding #j  
 Another informative and empowering @WCPS72 #PreK Family Oriented Programming session at the be  
 RT: Stenwood ES #StenwoodES #Elementary for #Programming #MinecraftModding at Royal Cyber Club  
 RT: Grace Covenant Church for #Robotics #Programming #Modeling #STEMCamps #Kids #Education ht  
 RT @EndorseEm: RT: Pat White Center at Ben Lomond for #Robotics #Programming #Modeling #STEMCar  
 RT: Fairfax Presbyterian Church for #STEM #Classes #Designing #Legos #Programming #Modeling #K

RT @dustmop: Hi! I'm a full-stack / backend freelance engineer looking for part-time contract work. Thank you @HybargerMarsha for coming to talk to us about programming offered at the GTC! #HITC/C/C++ Programming Course Near Sector-75 C and C++ Programming are much more. For more info visit... [https://t.co/...](#)

RT @mlemweb: Our Digital Humanities Workshop is tomorrow! @dustyweb and I are finalizing our talk. hey that's my mom <https://t.co/wPqYCjutFl>

RT: Sully Station Community Center for #Programming cool games #STEMCamps #Kids #Education [https://t.co/...](#)

RT @EqualToken: Congratulations to @contestsinkie for completing the programming challenge, really great work!

RT: Centreville Farms Community Association for #Programming cool games #STEMCamps #Kids #Education [https://t.co/...](#)

RT @MSFTImagine: A new definition in #programming. #DevHumor <https://t.co/0qmRdIPvzX>

though, OK, let's be real: monty python as a group \*all\* hated women, aggressively, so none of them were women.

@HuffPost NO WAY a Trump support could understand Python!

#Boston fans: #BernsteininBoston Don't miss 3/16 and 3/17 8pm as Giancarlo Guerrero conducts @BostonSymphony