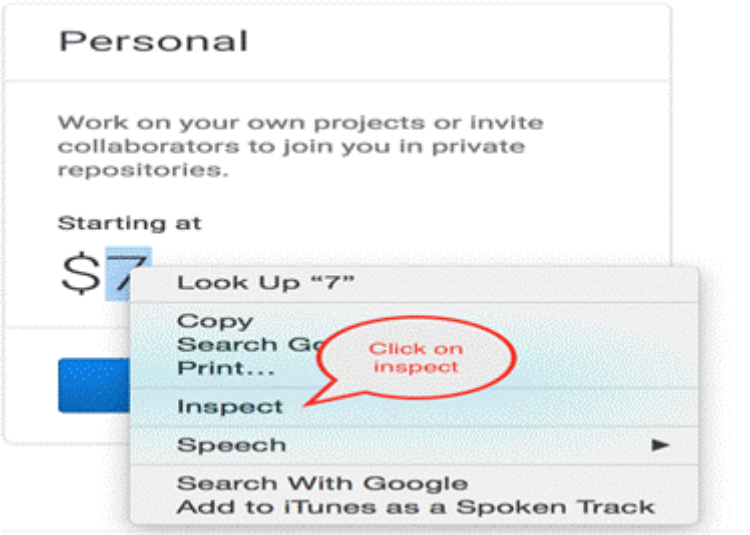
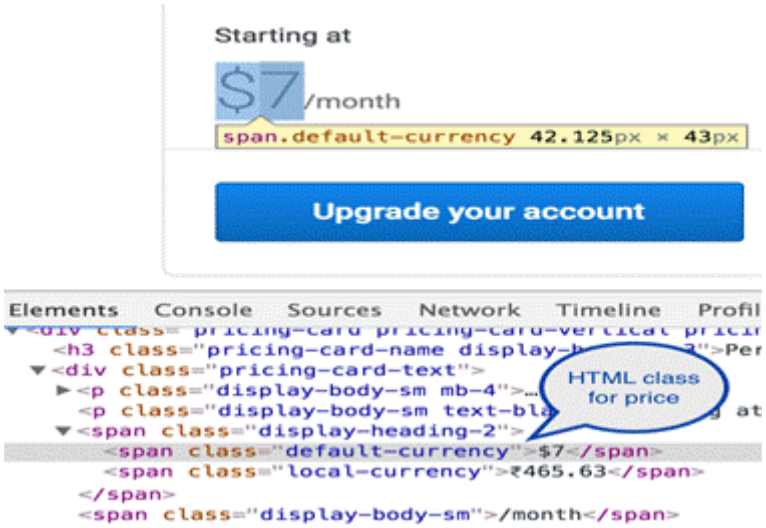
Chapter 1: Working with the Web

```
('Response object:', <Response [200]>)
('Response Text:', u'{"ip": "117.213.178.109"}\n')
```

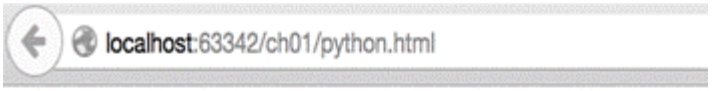
```
('Request URL:', u'https://github.com/search?q=chetan')
```


```
{
  "args": {},
  "data": "",
  "files": {},
  "form": {
    "key1": "value1"
  },
  "headers": {
    "Accept": "text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8",
    "Accept-Encoding": "gzip, deflate",
    "Accept-Language": "en-US,en;q=0.5",
    "Cache-Control": "no-cache",
    "Content-Length": "11",
    "Content-Type": "application/x-www-form-urlencoded; charset=UTF-8",
    "Host": "httpbin.org",
    "Pragma": "no-cache",
    "User-Agent": "Mozilla/5.0 (Macintosh; Intel Mac OS X 10.10; rv:38.0) Gecko/20100101
  },
  "json": null,
  "origin": "117.213.178.109",
  "url": "http://httpbin.org/post"
}
```






```
Page Object: <Element html at 0x104a6b188>
Plans: ['Personal', 'Organization', 'Enterprise']
Pricing: ['$7', '$25', '$2,500']
```



You know it's easy to get intouch with your **Friends** on web!
Click here here to sign up and enjoy

Your gateway to social web!

Mark Zuckerberg
Facebook, a webapp used by millions

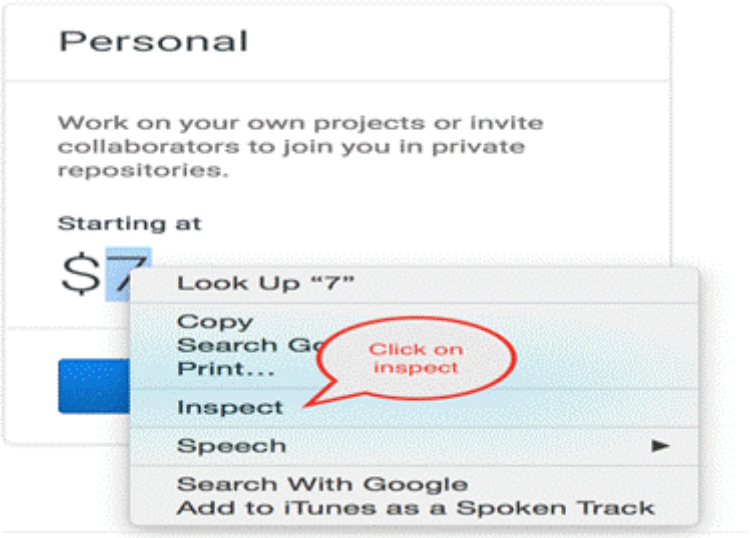
```
BeautifulSoup Object: <class 'bs4.BeautifulSoup'>
```

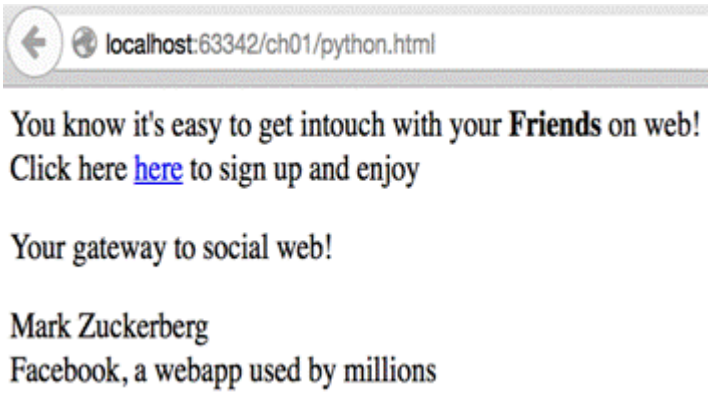
```
[<a href="https://facebook.com">here</a>]
[<strong>Friends</strong>]
<div id="inventor">Mark Zuckerberg</div>
[<div id="inventor">Mark Zuckerberg</div>]
[<p class="wow"> Your gateway to social web! </p>]
```

```
Facebook URL: https://facebook.com
Inventor: Mark Zuckerberg
Span content: You know it's easy to get intouch with your Friends on web!
```

Image Source: https://encrypted-tbn2.gstatic.com/images?q=tbn:ANd9GcQ_BRDYSD6jrzvTZVIxuIJysRu20IGopCbcSt00iNWzBeoKDcupyI9bhzp0
Image Source: https://encrypted-tbn3.gstatic.com/images?q=tbn:ANd9GcTu5xVw2kYHKP8HE5w-651EHJduNexoolYW0-eaC4SGYTPeI-9z-sa_ohY9
Image Source: https://encrypted-tbn1.gstatic.com/images?q=tbn:ANd9GcT-utBDuyVz8B5REY79HBrrNBDDC6s-WvZ84IcHr2ueNBw47uBfFArenWqI
Image Source: https://encrypted-tbn2.gstatic.com/images?q=tbn:ANd9GcSzkM9_gKBNQPByB3f2__tdjdBxJTqh2Tvw_hKepXHfcSLjBUJvhKdtPFk
Image Source: https://encrypted-tbn2.gstatic.com/images?q=tbn:ANd9GcQk4QNaH2Ephi34PKmBrC5F4v6yyzjKXCsgqxchhnEW9FSLd_Y1hmogwlk

Project_1.jpg
Project_2.jpg
Project_3.jpg
Project_4.jpg
Project_5.jpg

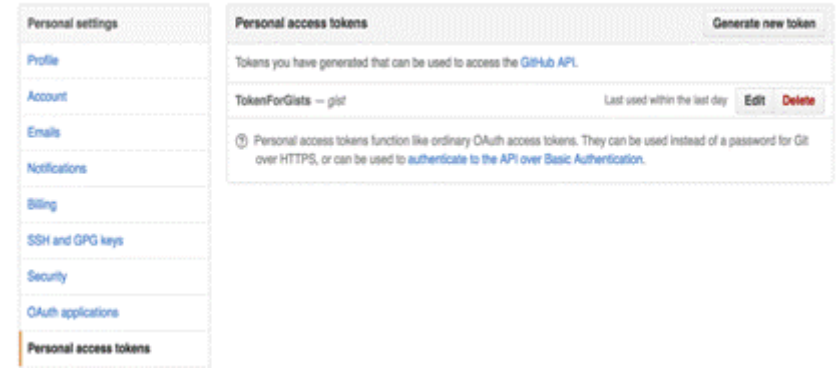


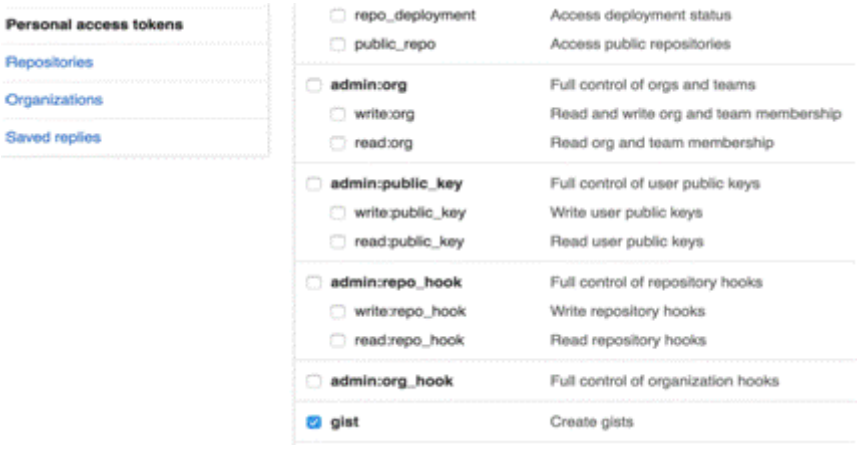



```
[<a href="https://facebook.com">here</a>]
[<strong>Friends</strong>]
<div id="inventor">Mark Zuckerberg</div>
[<div id="inventor">Mark Zuckerberg</div>]
[<p class="wow"> Your gateway to social web! </p>]
```

```
Image Source: https://encrypted-
tbn1.gstatic.com/images?q=tbn:ANd9GcRPM_7ISq5sIrCjEtbaA5Dl3Tk2
DQ2fF8D3VOZHk3QrMEd1FGsCOl_sj1I

Image Source: https://encrypted-
tbn3.gstatic.com/images?q=tbn:ANd9GcSNQJYDfevNP9Y8e_VXOJHpIvnX
OzooriLe50DFqXFo6sM79iCJcqPvxfgx

Image Source: https://encrypted-
tbn3.gstatic.com/images?q=tbn:ANd9GcTu5xVwlkYHKP8HE5w-
651EHJduNexoolYW0-eaC4SGYTPeI-9z-sa_ohY9

Image Source: https://encrypted-
tbn2.gstatic.com/images?q=tbn:ANd9GcTo4V0QY2OLML9F3pTWdeYZHXA5
AMtTBu_a8FMiLEjb6I-Md1We6jRsJxk

Image Source: https://encrypted-
tbn0.gstatic.com/images?q=tbn:ANd9GcTk7Y1PNouNhVkYHhcSxZ-
ual49hul2aijKg1sCGax3iLbbdSNGh0Ou-w8
```

Project_1.jpg
Project_2.jpg
Project_3.jpg
Project_4.jpg
Project_5.jpg





cjgiridhar / file1.txt

Created 6 minutes ago

the description for this gist

```
1  String file contents
```

cjgiridhar / file1.txt

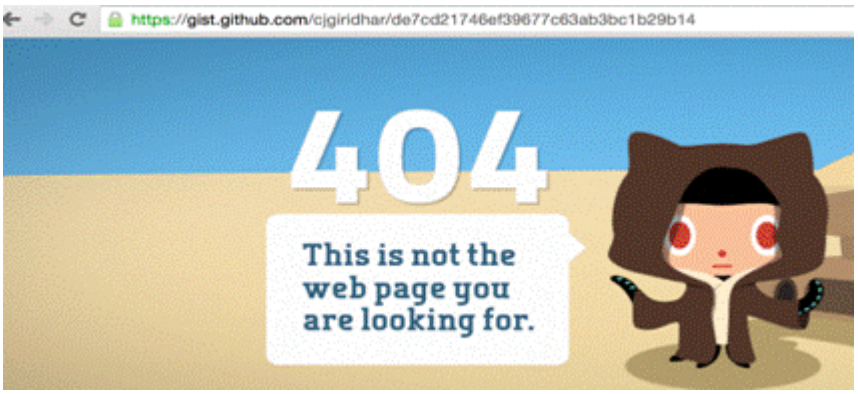
Last active 15 seconds ago

<> Code Revisions 2

Updating the description for this gist

file1.txt

```
1  Updating file contents..
```



tornado-write-own-async.py
https://gist.githubusercontent.com/cjgiridhar/c6e987ba7a90fe2c
b298/raw/58249ba0c31368920c464401ecff5960431c2cb6/tornado-
write-own-async.py Python

asyncio_parallel.py
https://gist.githubusercontent.com/cjgiridhar/9813678fcaaac181
ba18/raw/cf2253b0f3d80e83b56661a958fed098900ed36b/asyncio_para
llel.py Python

tornadogenex.py
https://gist.githubusercontent.com/cjgiridhar/b8fde85a77249d0e
538f/raw/6d93fc45b9984641bf46096815e8629a281b5101/tornadogenex
.py Python

tornadoasyncex.py
https://gist.githubusercontent.com/cjgiridhar/3ac7550dba96fd52
6c2f/raw/29f0e0337ea6df2bbbc44d3a2c4211e7da82f728/tornadoasync
ex.py Python

hello.js
https://gist.githubusercontent.com/cjgiridhar/5045567/raw/ea4c
b76993d78f9ae4ce6c4fa41fb1836b2fe1c4/hello.js JavaScript

async.js
https://gist.githubusercontent.com/cjgiridhar/4553831/raw/6198
97f0ed579b383a014e5b559f2b1396d45cf8/async.js JavaScript

helloworld.js
https://gist.githubusercontent.com/cjgiridhar/4528692/raw/3fc7
fd5f78bcd6590656021e0a5f1afa17ccff7b/helloworld.js JavaScript

test.py
https://gist.githubusercontent.com/cjgiridhar/3870274/raw/c611
7b0131ea03a2cb97a0a98a3b1d89379dd63a/test.py Python

fib.feature
https://gist.githubusercontent.com/cjgiridhar/3870272/raw/6326
0ee02a030c7146178ac7bdbc66b4a5517dd3/fib.feature Cucumber

asyncio_parallel.py https://gist.githubusercontent.com/cjgiridhar/9813678fcaaac181ba18/raw/cf2253b0f3d80e83b56661a958fed098900ed36b/asyncio_parallel.py Python
tornadogenex.py https://gist.githubusercontent.com/cjgiridhar/b8fde85a77249d0e538f/raw/6d93fc45b9984641bf46096815e8629a281b5101/tornadogenex.py Python
tornadoasyncex.py https://gist.githubusercontent.com/cjgiridhar/3ac7550dba96fd526c2f/raw/29f0e0337ea6df2bbbc44d3a2c4211e7da82f728/tornadoasyncex.py Python
hello.js https://gist.githubusercontent.com/cjgiridhar/5045567/raw/ea4cb76993d78f9ae4ce6c4fa41fb1836b2fe1c4/hello.js JavaScript
async.js https://gist.githubusercontent.com/cjgiridhar/4553831/raw/619897f0ed579b383a014e5b559f2b1396d45cf8/async.js JavaScript
helloworld.js https://gist.githubusercontent.com/cjgiridhar/4528692/raw/3fc7fd5f78bcd6590656021e0a5f1afa17ccff7b/helloworld.js JavaScript
test.py https://gist.githubusercontent.com/cjgiridhar/3870274/raw/c6117b0131ea03a2cb97a0a98a3b1d89379dd63a/test.py Python
fib.feature https://gist.githubusercontent.com/cjgiridhar/3870272/raw/63260ee02a030c7146178ac7bdbc66b4a5517dd3/fib.feature Cucumber
morelikethis.html https://gist.githubusercontent.com/cjgiridhar/3706714/raw/b01036b324e2982e1458f4338c4ae41e7762fc12/morelikethis.html HTML
tornadowhoosh_morelike.py https://gist.githubusercontent.com/cjgiridhar/3706711/raw/49e414908247c268e7c8a85555c888fd4e1a45ac/tornadowhoosh_morelike.py Python

```
{
  "tasks": [
    {
      "status": "OPEN",
      "task": "Write a book",
      "id": 1
    },
    {
      "status": "COMPLETE",
      "task": "Wash my clothes",
      "id": 2
    },
    {
      "status": "INPROGRESS",
      "task": "Go for a movie",
      "id": 3
    }
  ]
}
```



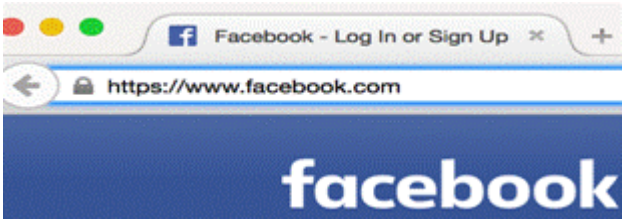
```
{
  "tasks": [
    {
      "status": "OPEN",
      "task": "Write a book",
      "id": 1
    },
    {
      "status": "COMPLETE",
      "task": "Wash my clothes",
      "id": 2
    },
    {
      "status": "INPROGRESS",
      "task": "Go for a movie",
      "id": 3
    },
    {
      "status": "OPEN",
      "task": "This is a new task",
      "id": 999
    }
  ]
}
```

```
{
  "status": "COMPLETE",
  "task": "Write a book",
  "id": 1
}
```

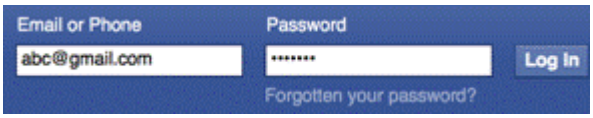

Content: {"ip": "117.213.178.109"}

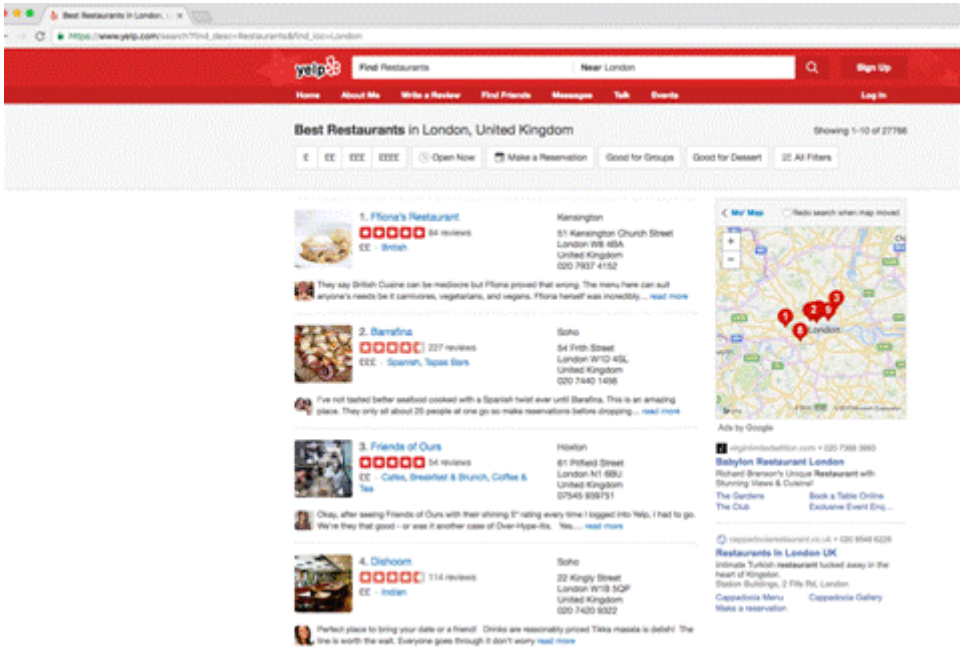
Response:
StatusCode: 200 Location: http://ip.jsontest.com/

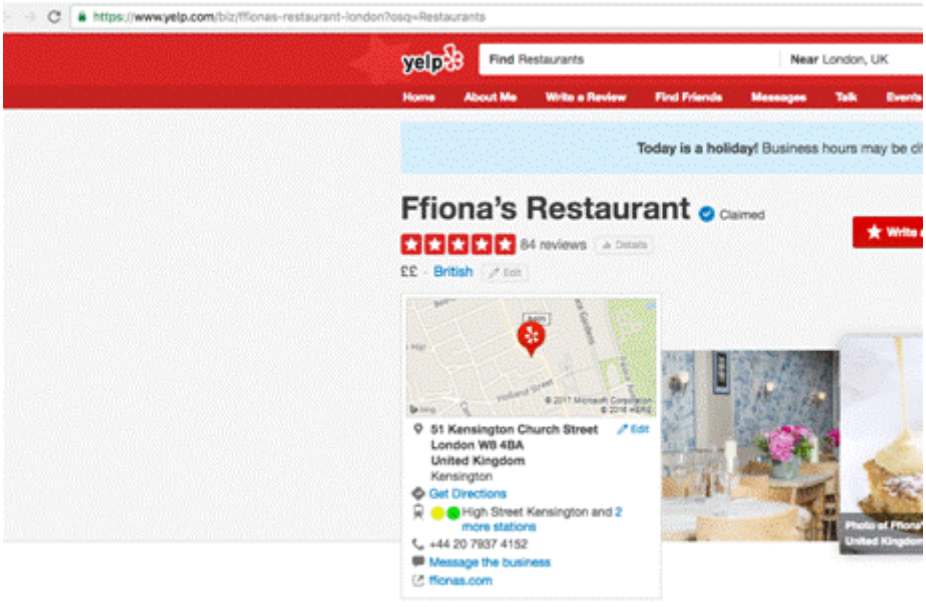
WebDriver Object <selenium.webdriver.firefox.webdriver.WebDriver (session="aef75d40-879a-ae4a-a825-bd8f906e0e4e")>

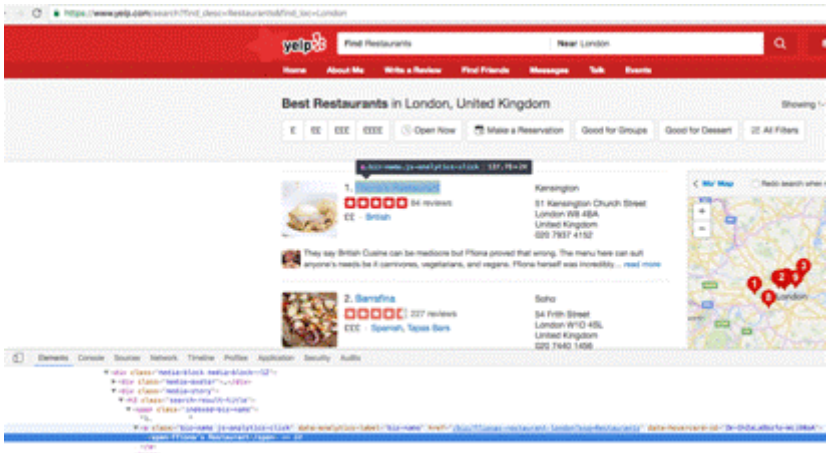


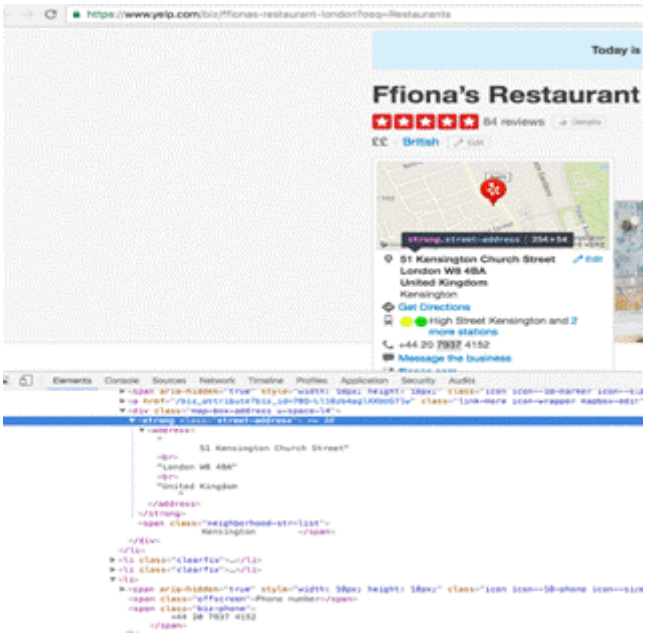
Html elements:
Email: <selenium.webdriver.remote.webelement.WebElement (session="7b4f564a-4388-c94e-9d94-23df1a59899a", element="{8b95073f-6f28-db4d-be1a-368e24781d83}")>
Password: <selenium.webdriver.remote.webelement.WebElement (session="7b4f564a-4388-c94e-9d94-23df1a59899a", element="{b19df0ce-74a7-5e4d-bf95-227b223942321}")>


Email or Phone
abc@gmail.com
Password
Log In
Forgotten your password?


yelp
Find Restaurants
Near London
Best Restaurants in London, United Kingdom
1. Ffiona's Restaurant
2. Barrafina
3. Friends of Ours
4. Dishoom


https://www.yelp.com/biz/ffionas-restaurant-london?osq=Restaurants
yelp
Find Restaurants
Near London, UK
Today is a holiday! Business hours may be
Ffiona's Restaurant
Claimed
64 reviews
£££ · British
51 Kensington Church Street
London W8 4BA
United Kingdom
Kensington
Get Directions
High Street Kensington and 2 more stations
+44 20 7937 4152
Message the business
ffionas.com


yelp
Best Restaurants in London, United Kingdom
1. Ffiona's Restaurant
84 reviews
£££ · British
Kensington
51 Kensington Church Street
London W8 4BA
United Kingdom
020 7937 4152
2. Barrafina
227 reviews
£££ · Spanish, Tapas Bars
Soho
54 Frith Street
London W1D 4SL
United Kingdom
020 7440 1456


https://www.yelp.com/biz/ffionas-restaurant-london?osq=Restaurants
Ffiona's Restaurant
84 reviews
£££ · British
51 Kensington Church Street
London W8 4BA
United Kingdom
Kensington
Get Directions
High Street Kensington and 2 more stations
+44 20 7937 4152
Message the business

```
------------------
Title:  Lao Cafe
Street Address:  60 Chandos PlaceLondon WC2N 4HGUnited Kingdom
Phone Number:  +44 20 3740 4748
------------------
Title:  Caravan Bankside
Street Address:  30 Great Guildford StreetLondon SE1 0HSUnited Kingdom
Phone Number:  +44 20 7101 1190
------------------
Title:  Bageriet
Street Address:  24 Rose StreetLondon WC2E 9EAUnited Kingdom
Phone Number:  +44 20 7240 0000
------------------
Title:  Barrafina
Street Address:  54 Frith StreetSohoLondon W1D 4SLUnited Kingdom
Phone Number:  +44 20 7440 1456
------------------
Title:  Hawksmoor Seven Dials
Street Address:  11 Langley StreetLondon WC2H 9JGUnited Kingdom
Phone Number:  +44 20 7420 9390
------------------
Title:  Friends of Ours
Street Address:  61 Pitfield StreetLondon N1 6BUUnited Kingdom
Phone Number:  +44 7545 939751
------------------
Title:  Dishoom
Street Address:  22 Kingly StreetLondon W1B 5QPUnited Kingdom
Phone Number:  +44 20 7420 9322
------------------
Title:  Ffiona's Restaurant
Street Address:  51 Kensington Church StreetLondon W8 4BAUnited Kingdom
Phone Number:  +44 20 7937 4152
------------------
Title:  Restaurant Gordon Ramsay
Street Address:  68 Royal Hospital RoadLondon SW3 4HPUnited Kingdom
Phone Number:  +44 20 7352 4441
```

Chapter 2: Working with CSV and Excel Worksheets

mylist.csv

```
first_name,last_name,email,zipcode,city,state,country,phone
John,Doe,john.doe@gmail.com,94043,Sunnyvale,CA,USA,12340166457
Chetan,Smith,chetan.smith@gmail.com,20009,Washington,DC,USA,19980166457
Deepti,Doe,deepti.doe@gmail.com,94043,MountainView,CA,USA,12345678901
```

```
Data from the CSV: Exception is: new-line character seen in unquoted field - do you need to open the file in universal-newline mode?
```

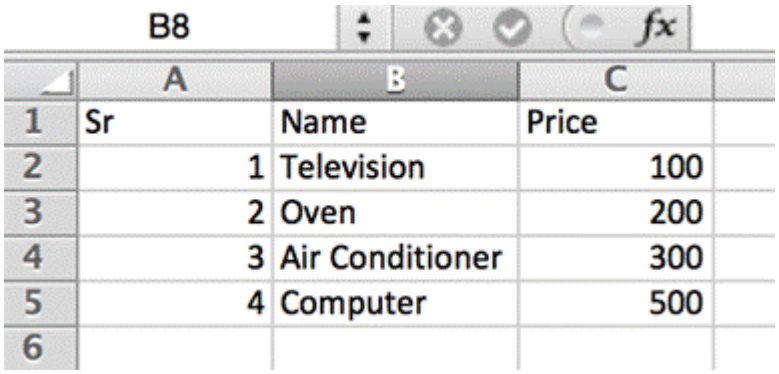
```
Data from the CSV:
['first_name,last_name,email,zipcode,city,state,country,phone'] ['Chetan,Smith,chetan.smith@gmail.com,20009,Washington,DC,USA,19980166457']
['John,Doe,john.doe@gmail.com,94043,Sunnyvale,CA,USA,12340166457'] ['Deepti,Doe,deepti.doe@gmail.com,94043,MountainView,CA,USA,12345678901']
```

```
File Contents
John Doe john.doe@gmail.com
Chetan Smith chetan.smith@gmail.com
Deepti Doe deepti.doe@gmail.com
```

```
Sr.,Names,Grades
1,John,C
2,Eve,A+
3,Fate,A
4,Jadon,B-
```

```
Sr-Data-Date
1-first line-
2-second line-08/18/07
```

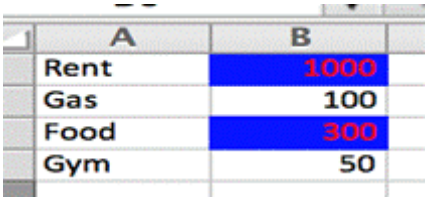
john.doe@gmail.com,12340166457
deepti.doe@gmail.com,12345678901



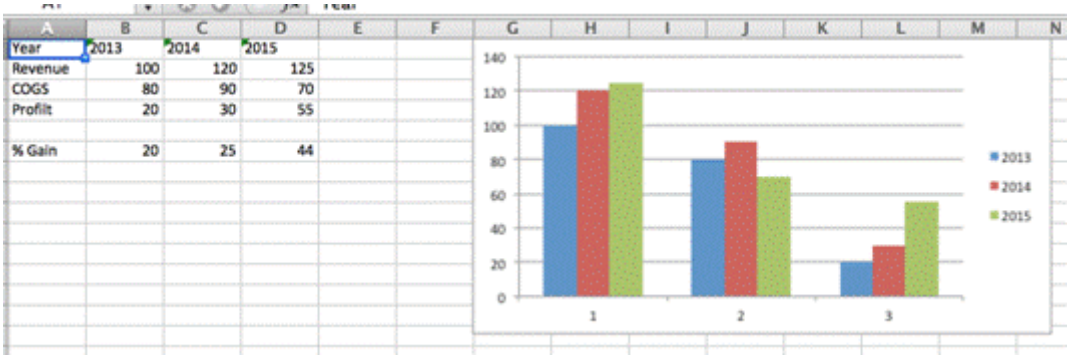
B8

	A	B	C
1	Sr	Name	Price
2	1	Television	100
3	2	Oven	200
4	3	Air Conditioner	300
5	4	Computer	500
6			

```
Workbook Object: [u'People', u'Items']
People sheet object: <Worksheet "People">
First cell Object: <Cell People.A1>
Other Cell Object: <Cell People.B3>
First Name: John Doe
```



	A	B
	Rent	1000
	Gas	100
	Food	300
	Gym	50

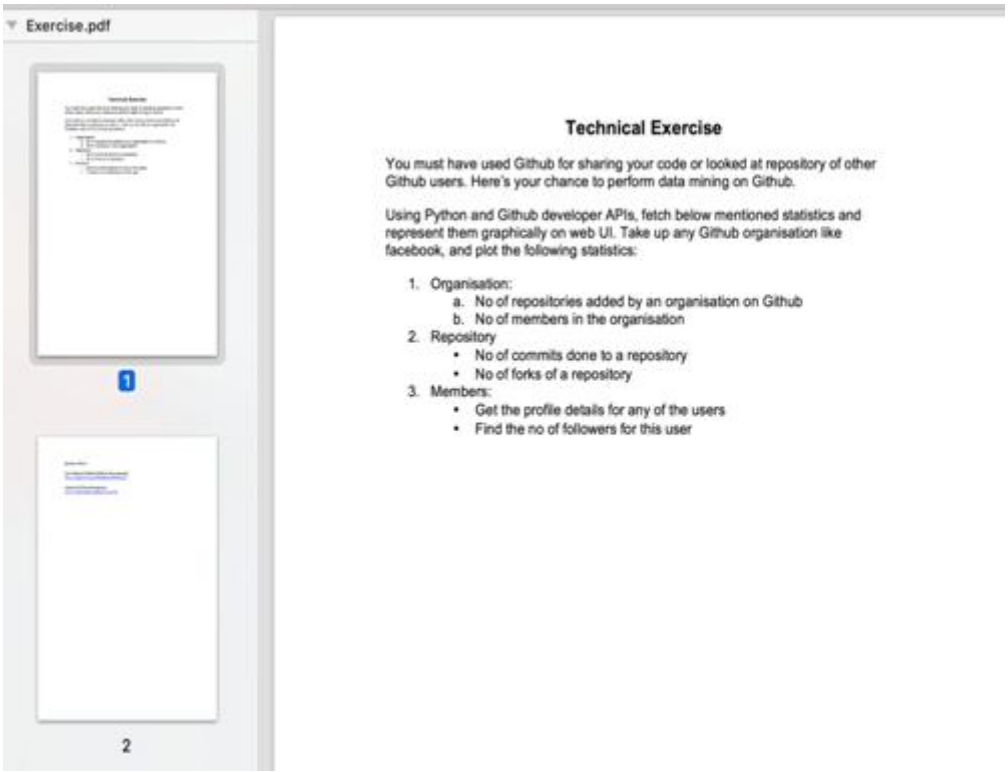


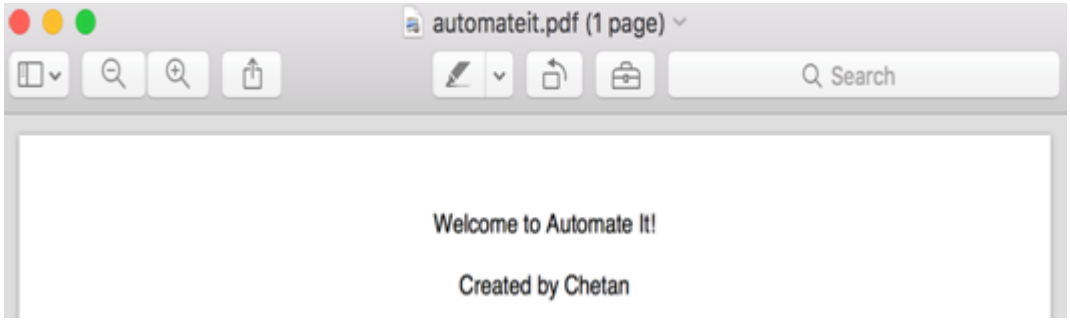
	A	B	C	D
	Year	2013	2014	2015
	Revenue	100	120	125
	COGS	80	90	70
	Profit	20	30	55
	% Gain	20	25	44

Chapter 3: Get creative with PDF files and Documents

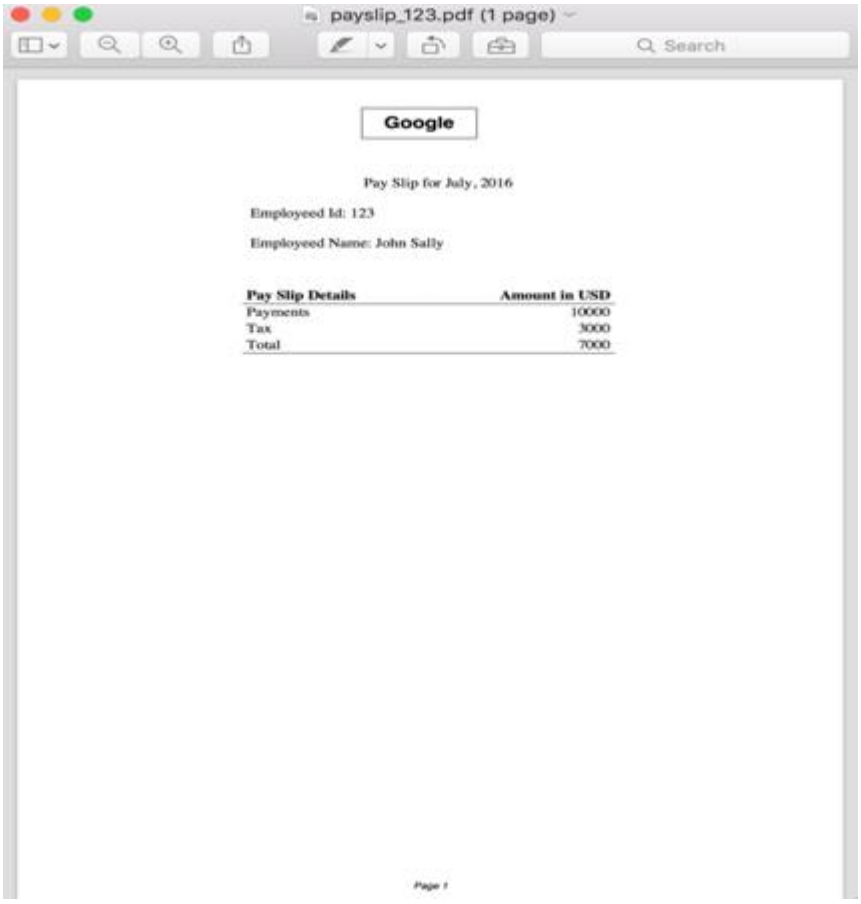
```
PDF Reader Object is:
<PyPDF2.pdf.PdfFileReader object at 0x10dc62590>
```

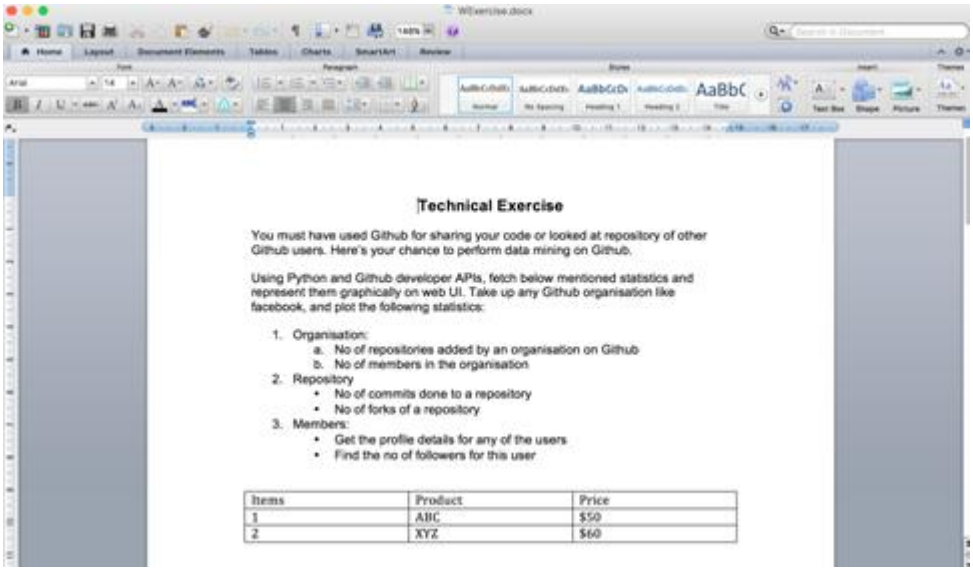
```
Reading Page 1
Dive Into Python: Python from novice to proby Mark PilgrimPublished 20 May 2004Copyright  2000, 2001, 2002, 2003, 2004 Mark Pilgrim
```






```
Document Info: {'/Producer': u'PyPDF2', '/edited': u'ByPdfFileMerger'}
```


payslip_123.pdf (1 page)
Search
Google
Pay Slip for July, 2016
Employeed Id: 123
Employeed Name: John Sally
Pay Slip Details
Amount in USD
Payments
10000
Tax
3000
Total
7000
Page 1


Technical Exercise
You must have used Github for sharing your code or looked at repository of other Github users. Here's your chance to perform data mining on Github.
Using Python and Github developer APIs, fetch below mentioned statistics and represent them graphically on web UI. Take up any Github organisation like facebook, and plot the following statistics:
1. Organisation:
a. No of repositories added by an organisation on Github
b. No of members in the organisation
2. Repository
• No of commits done to a repository
• No of forks of a repository
3. Members:
• Get the profile details for any of the users
• Find the no of followers for this user
Items
Product
Price
1
ABC
$50
2
XYZ
$60

Title of the document:
Technical Exercise

Column 1: Items	Column 2: Product	Column 3: Price
1	ABC	$50
2	XYZ	$60

Hi this is a nice text document

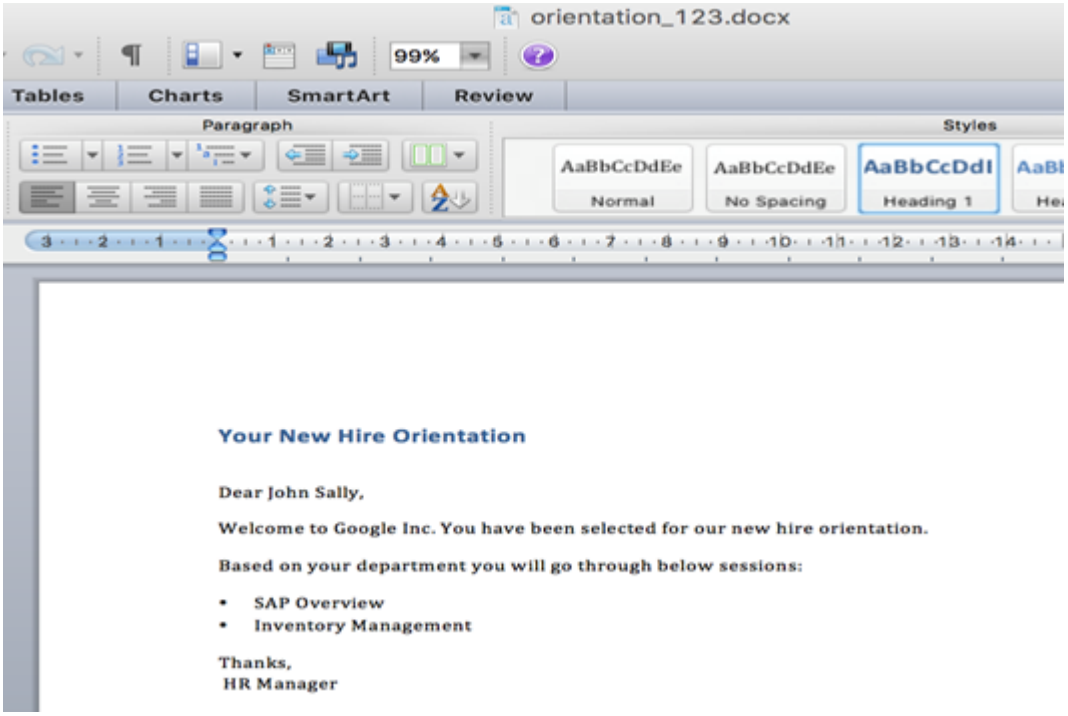
A plain paragraph having some **bold words** *and italics.*

Hi this is a nice text document

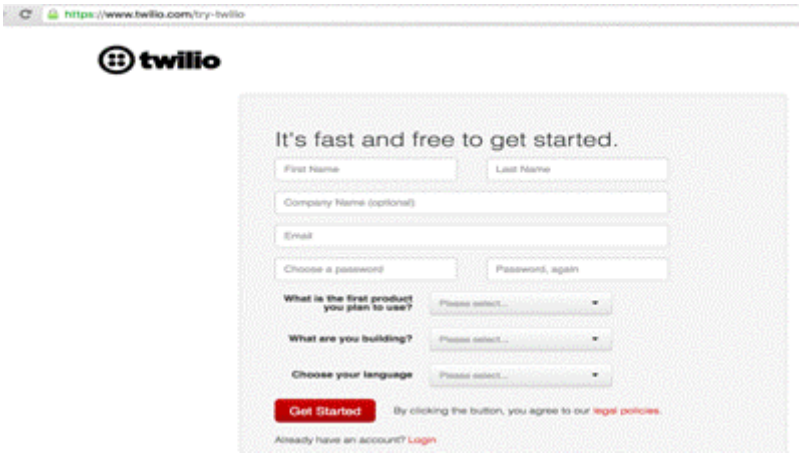
A plain paragraph having some **bold words** *and italics.*

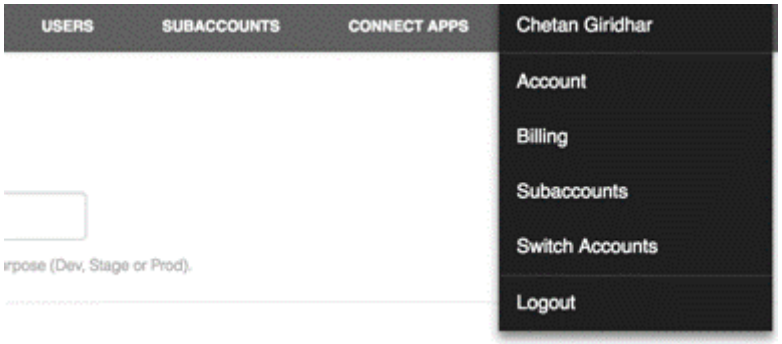
Lets talk about Python language

- First lets see the Python logo



Chapter 4: Playing with SMS and Voice Notifications





API Credentials

Live

AccountSID

Used to exercise the REST API

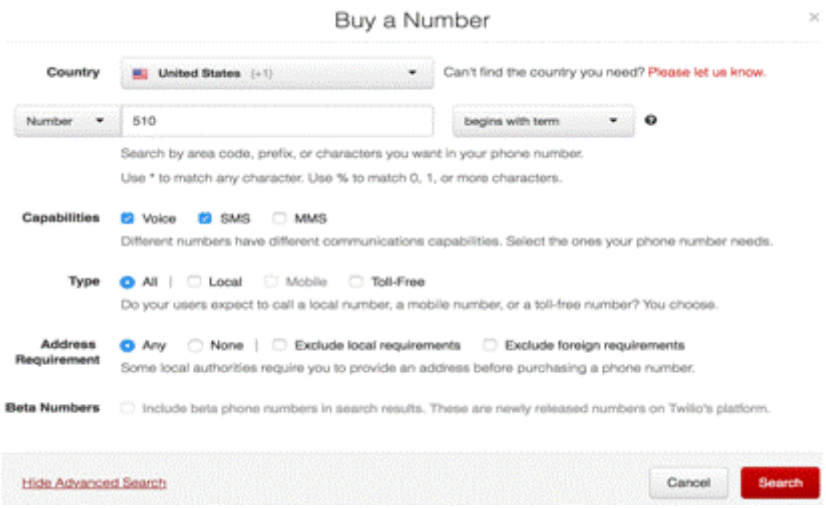
[redacted]

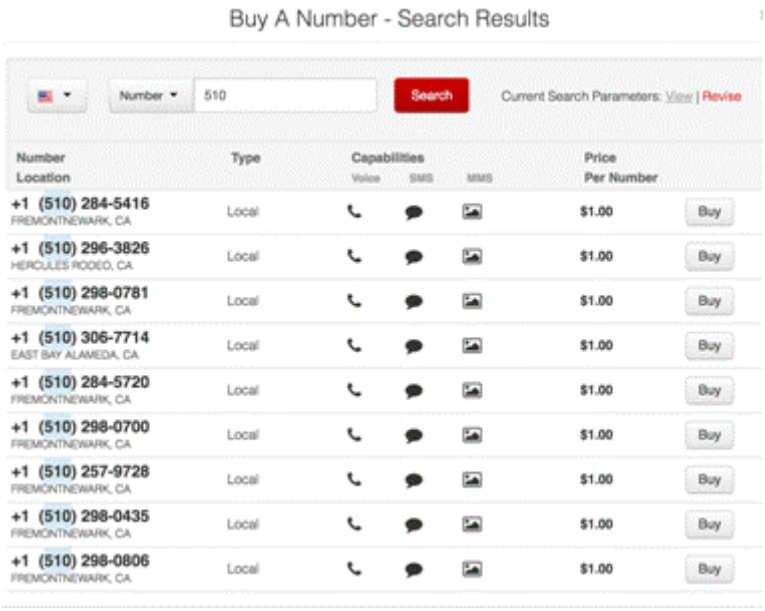
AuthToken (Request a Secondary Token)

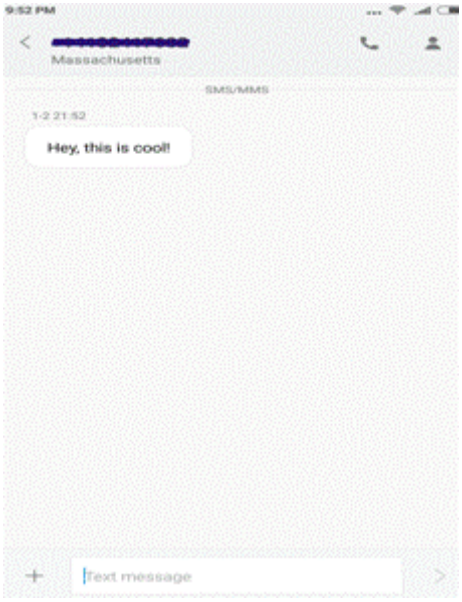
Keep this somewhere safe and secure

••••••••••••••••••••••••••••••••

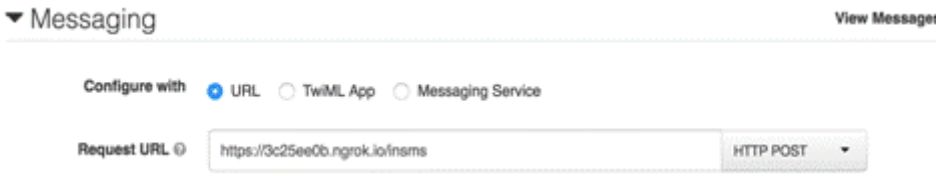
Learn more about REST API Credentials




Buy A Number - Search Results
Number
510
Search
Current Search Parameters: View | Revise
Number
Location
Type
Capabilities
Voice
SMS
MMS
Price
Per Number
+1 (510) 284-5416
FREMONTNEWARK, CA
Local
$1.00
Buy
+1 (510) 296-3826
HERCULES RODEO, CA
Local
$1.00
Buy
+1 (510) 298-0781
FREMONTNEWARK, CA
Local
$1.00
Buy
+1 (510) 306-7714
EAST BAY ALAMEDA, CA
Local
$1.00
Buy
+1 (510) 284-5720
FREMONTNEWARK, CA
Local
$1.00
Buy
+1 (510) 298-0700
FREMONTNEWARK, CA
Local
$1.00
Buy
+1 (510) 257-9728
FREMONTNEWARK, CA
Local
$1.00
Buy
+1 (510) 298-0435
FREMONTNEWARK, CA
Local
$1.00
Buy
+1 (510) 298-0806
FREMONTNEWARK, CA
Local
$1.00
Buy


9:52 PM
[redacted]
Massachusetts
SMS/MMS
1-2 21:52
Hey, this is cool!
Text message

```
ngrok by @inconshreveable

Tunnel Status                 online
Update                        update available (version 2.1.3, Ctrl-U to update)
Version                       2.0.24/2.1.1
Region                        United States (us)
Web Interface                 http://127.0.0.1:4040
Forwarding                    http://21d45a11.ngrok.io -> localhost:5000
Forwarding                    https://21d45a11.ngrok.io -> localhost:5000

Connections                   ttl     opn     rt1     rt5     p50     p90
                              0       0       0.00    0.00    0.00    0.00
```



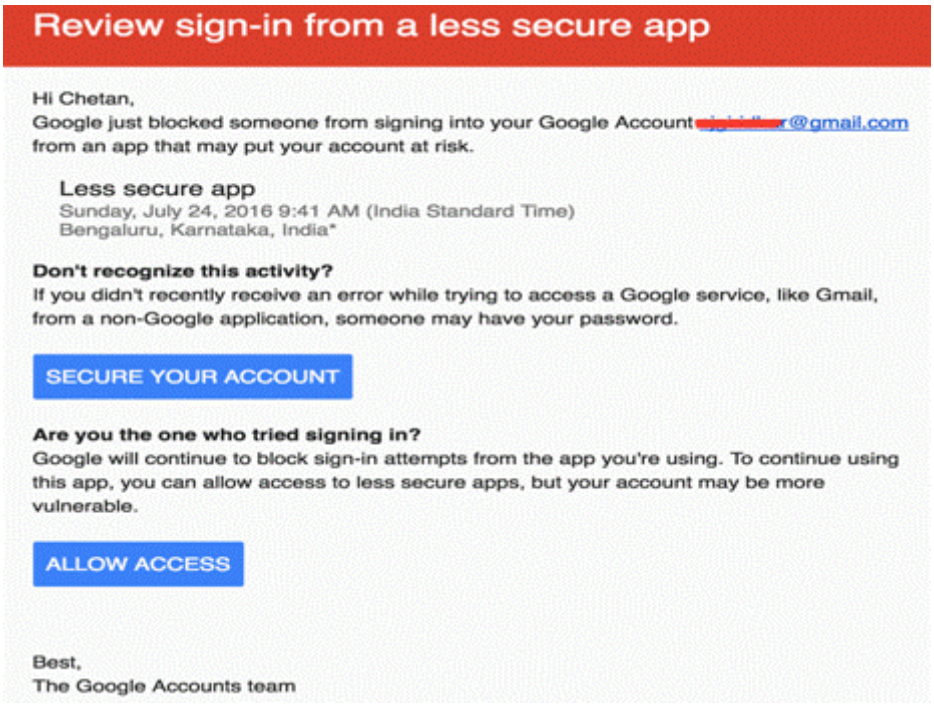
▼ Body

Show Raw

```
<?xml version="1.0" encoding="UTF-8"?>
<Response>
    <Dial>
        <Conference>CA2590b80c06540af40f61667eb0a3ad4b</Conference>
    </Dial>
</Response>
```

Chapter 5: Fun with E-mails

```
/System/Library/Frameworks/Python.framework/Versions/2.7/bin/python2.7 /Users/chetan/book/ch06/basic_email.py
Traceback (most recent call last):
  File "/Users/chetan/book/ch06/basic_email.py", line 8, in <module>
    server.login(config.fromaddr, config.password)
  File "/System/Library/Frameworks/Python.framework/Versions/2.7/lib/python2.7/smtplib.py", line 622, in login
    raise SMTPAuthenticationError(code, resp)
smtplib.SMTPAuthenticationError: (534, '5.7.14 <https://accounts.google.com/signin/continue?sarp=1&scc=1&plt=AKgn

Process finished with exit code 1
```



Review sign-in from a less secure app

Hi Chetan,
Google just blocked someone from signing into your Google Account [redacted]@gmail.com from an app that may put your account at risk.

Less secure app
Sunday, July 24, 2016 9:41 AM (India Standard Time)
Bengaluru, Karnataka, India*

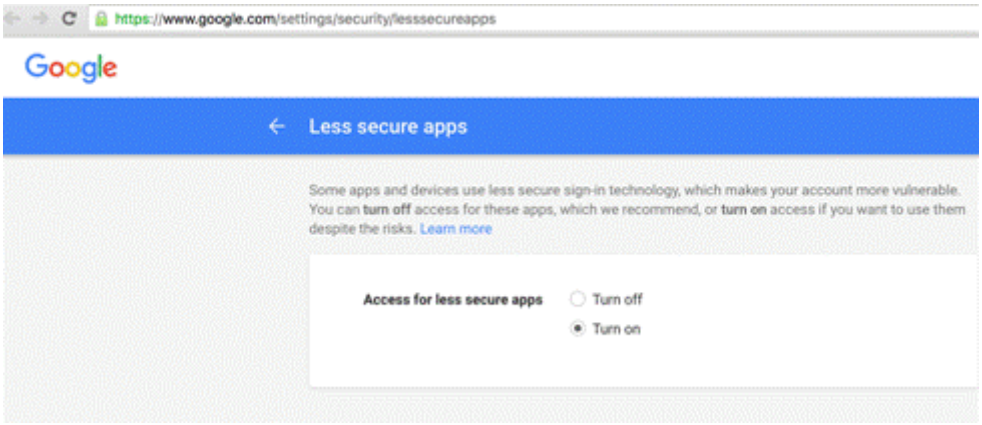
Don't recognize this activity?
If you didn't recently receive an error while trying to access a Google service, like Gmail, from a non-Google application, someone may have your password.

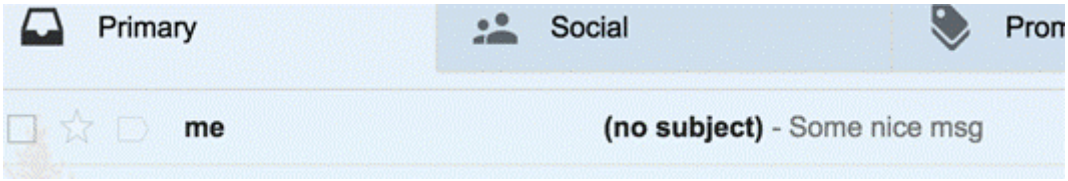
SECURE YOUR ACCOUNT

Are you the one who tried signing in?
Google will continue to block sign-in attempts from the app you're using. To continue using this app, you can allow access to less secure apps, but your account may be more vulnerable.

ALLOW ACCESS

Best,
The Google Accounts team

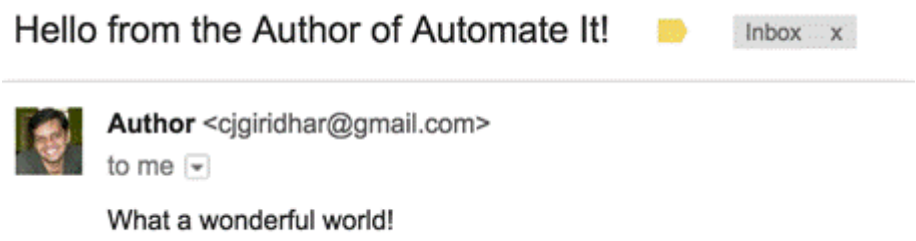




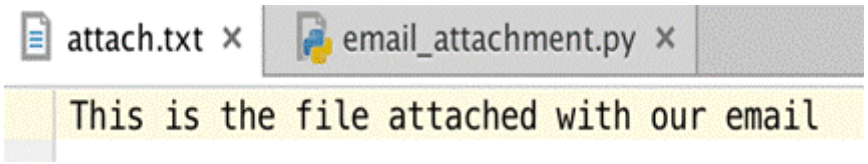

```
Sending ehlo
send: 'ehlo [127.0.0.1]\r\n'
reply: '250-smtp.gmail.com at your service, [106.51.129.41]\r\n'
reply: '250-SIZE 35882577\r\n'
reply: '250-8BITMIME\r\n'
reply: '250-STARTTLS\r\n'
reply: '250-ENHANCEDSTATUSCODES\r\n'
reply: '250-PIPELINING\r\n'
```

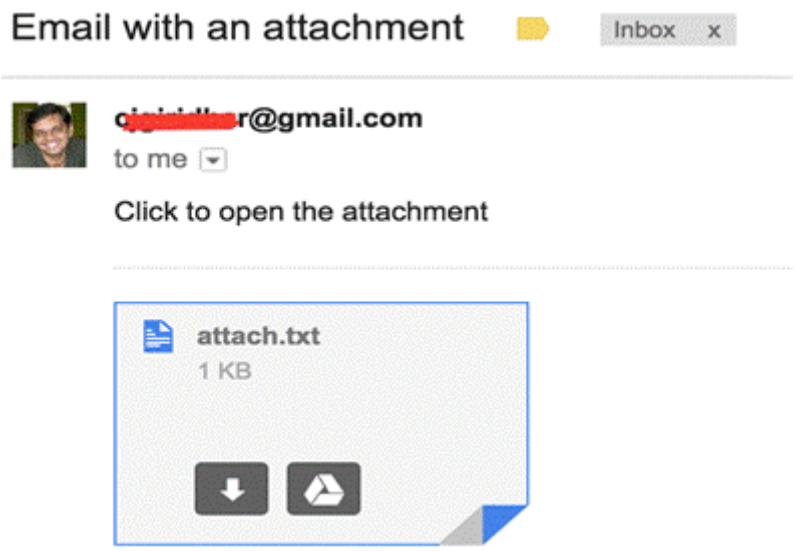
```
Starting TLS Session
reply: '250-CHUNKING\r\n'
reply: '250 SMTPUTF8\r\n'
reply: retcode (250); Msg: smtp.gmail.com at your service, [106.51.129.41]
SIZE 35882577
8BITMIME
STARTTLS
ENHANCEDSTATUSCODES
PIPELINING
CHUNKING
SMTPUTF8
send: 'STARTTLS\r\n'
reply: '220 2.0.0 Ready to start TLS\r\n'
reply: retcode (220); Msg: 2.0.0 Ready to start TLS
```

```
Sending ehlo again
send: 'ehlo [127.0.0.1]\r\n'
reply: '250-smtp.gmail.com at your service, [106.51.129.41]\r\n'
reply: '250-SIZE 35882577\r\n'
reply: '250-8BITMIME\r\n'
reply: '250-AUTH LOGIN PLAIN XOAUTH2 PLAIN-CLIENTTOKEN OAUTHBEARER XOAUTH\r\n'
reply: '250-ENHANCEDSTATUSCODES\r\n'
reply: '250-PIPELINING\r\n'
reply: '250-CHUNKING\r\n'
reply: '250 SMTPUTF8\r\n'
reply: retcode (250); Msg: smtp.gmail.com at your service, [106.51.129.41]
SIZE 35882577
8BITMIME
AUTH LOGIN PLAIN XOAUTH2 PLAIN-CLIENTTOKEN OAUTHBEARER XOAUTH
ENHANCEDSTATUSCODES
PIPELINING
CHUNKING
SMTPUTF8
send: 'quit\r\n'
reply: '221 2.0.0 closing connection ps2sm30604983pab.10 - gsmtp\r\n'
reply: retcode (221); Msg: 2.0.0 closing connection ps2sm30604983pab.10 - gsmtp
```




```
Text is: Content-Type: multipart/mixed; boundary="===============9144934212570870897=="
MIME-Version: 1.0
Subject: Hello from the Author of Automate It!
To: Recipient <cjgiridhar@gmail.com>
From: Author <author@packt.com>
Subject: Test from us

--===============9144934212570870897==
Content-Type: text/plain; charset="us-ascii"
MIME-Version: 1.0
Content-Transfer-Encoding: 7bit

What a wonderful world!
--===============9144934212570870897==--
```



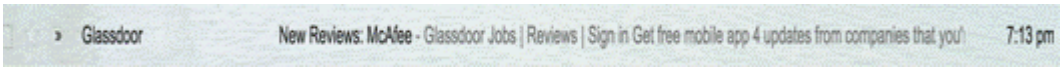



```
Inbox: <imaplib.IMAP4_SSL instance at 0x108308098>
```

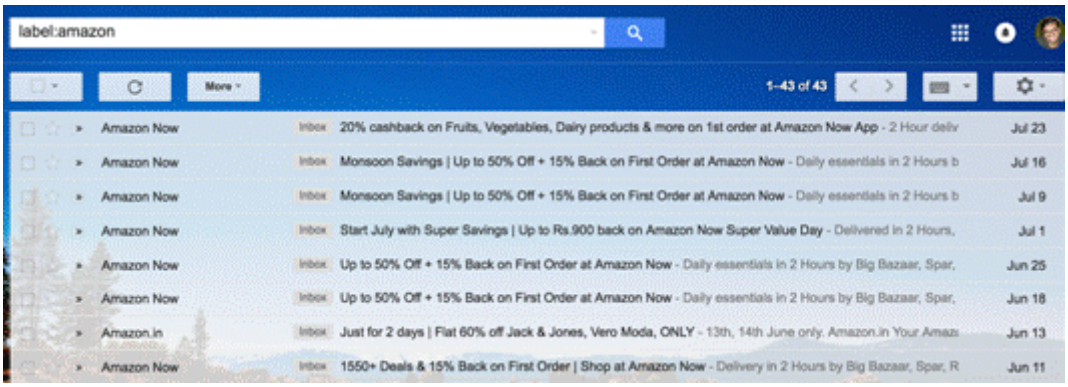
```
('OK', ['(\\HasNoChildren) "/" "ACM"',
```

```
Return-Path: <cjgiridhar@gmail.com>
Received: from [127.0.0.1] ([106.51.129.41])
        by smtp.gmail.com with ESMTPSA id f10sm31889193pfc.79.2016.07.24.03.01.51
        for <cjgiridhar@gmail.com>
        (version=TLS1 cipher=AES128-SHA bits=128/128);
        Sun, 24 Jul 2016 03:01:52 -0700 (PDT)
Message-ID: <57949210.0a6a620a.38b7f.d075@mx.google.com>
Date: Sun, 24 Jul 2016 03:01:52 -0700 (PDT)
Content-Type: multipart/mixed; boundary="===============0768011610242518496=="
MIME-Version: 1.0
From: cjgiridhar@gmail.com
To: cjgiridhar@gmail.com
Subject: Email with an attachment

--===============0768011610242518496==
Content-Type: text/plain; charset="us-ascii"
MIME-Version: 1.0
Content-Transfer-Encoding: 7bit

Click to open the attachment
--===============0768011610242518496==
Content-Type: application/octet-stream
MIME-Version: 1.0
Content-Transfer-Encoding: base64
Content-Disposition: attachment; filename= attach.txt

VGhpcyBpcyB0aGUgZmlsZSBhdHRhY2hlZCB3aXRoIG91ciBlbWFpbA==
--===============0768011610242518496==--
```

```
Email Body:
Top Stories from Your Feed
Your Quora Digest

-----


Question: What would have happened had Gandhi not been not in the freedom fight?

Answer from Sam Jake
It wouldn’t have mattered in any way!
```


Glassdoor
New Reviews: McAfee - Glassdoor Jobs | Reviews | Sign in Get free mobile app 4 updates from companies that you!
7:13 pm

Amazon Now Inbox 20% cashback on Fruits, Vegetables, Dairy products & more on 1st order at Amazon Now App - Jul 23
Amazon Now Inbox Monsoon Savings | Up to 50% Off + 15% Back on First Order at Amazon Now - Jul 16
Amazon Now Inbox Monsoon Savings | Up to 50% Off + 15% Back on First Order at Amazon Now - Jul 9
Amazon Now Inbox Start July with Super Savings | Up to Rs.900 back on Amazon Now Super Value Day - Jul 1
Amazon Now Inbox Up to 50% Off + 15% Back on First Order at Amazon Now - Jun 25
Amazon Now Inbox Up to 50% Off + 15% Back on First Order at Amazon Now - Jun 18
Amazon.in Inbox Just for 2 days | Flat 60% off Jack & Jones, Vero Moda, ONLY - 13th, 14th June only. http://www.amazon Jun 13
Amazon Now Inbox 1550+ Deals & 15% Back on First Order | Shop at Amazon Now - Jun 11

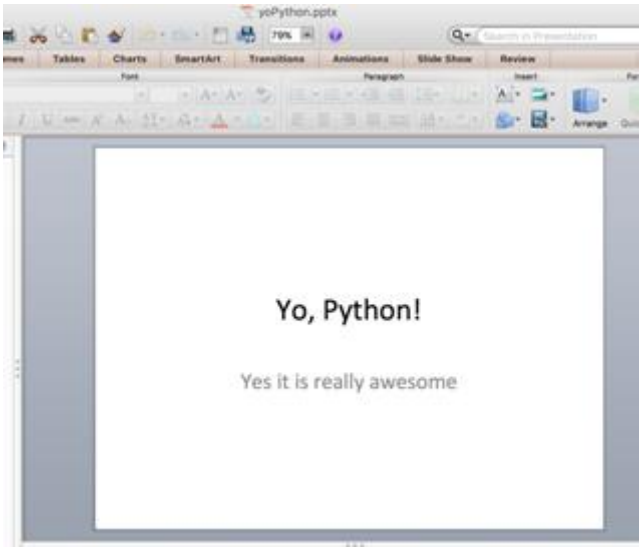

label:amazon
More
1-43 of 43
Amazon Now Inbox 20% cashback on Fruits, Vegetables, Dairy products & more on 1st order at Amazon Now App - 2 Hour deliv Jul 23
Amazon Now Inbox Monsoon Savings | Up to 50% Off + 15% Back on First Order at Amazon Now - Daily essentials in 2 Hours b Jul 16
Amazon Now Inbox Monsoon Savings | Up to 50% Off + 15% Back on First Order at Amazon Now - Daily essentials in 2 Hours b Jul 9
Amazon Now Inbox Start July with Super Savings | Up to Rs.900 back on Amazon Now Super Value Day - Delivered in 2 Hours, Jul 1
Amazon Now Inbox Up to 50% Off + 15% Back on First Order at Amazon Now - Daily essentials in 2 Hours by Big Bazaar, Spar, Jun 25
Amazon Now Inbox Up to 50% Off + 15% Back on First Order at Amazon Now - Daily essentials in 2 Hours by Big Bazaar, Spar, Jun 18
Amazon.in Inbox Just for 2 days | Flat 60% off Jack & Jones, Vero Moda, ONLY - 13th, 14th June only. Amazon.in Your Amazi Jun 13
Amazon Now Inbox 1550+ Deals & 15% Back on First Order | Shop at Amazon Now - Delivery in 2 Hours by Big Bazaar, Spar, R Jun 11

Hi there,

Thanks for your query with us today. You can look at our FAQs and we shall get back to you soon.

Thanks,
Support Team

Chapter 6: Presentations and More

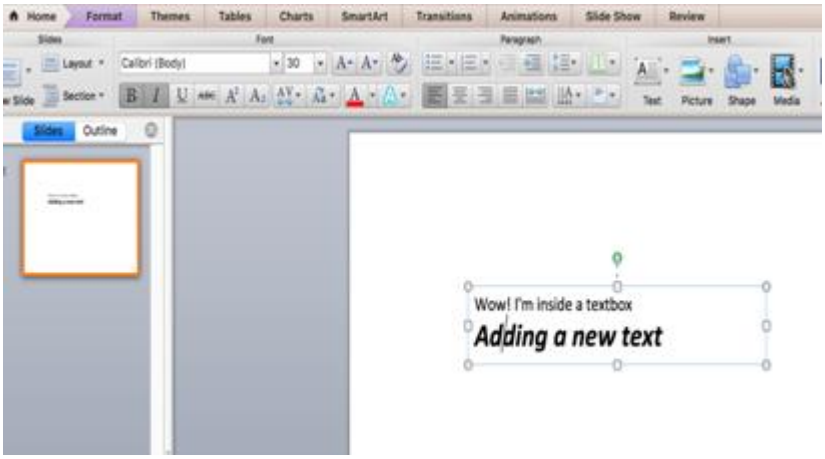

yoPython.pptx
Yo, Python!
Yes it is really awesome

Click to add title
Click to add subtitle

Adding a Two Content Slide

- This is line 1.
  - Again a Line 2..
    - And this is line 3...

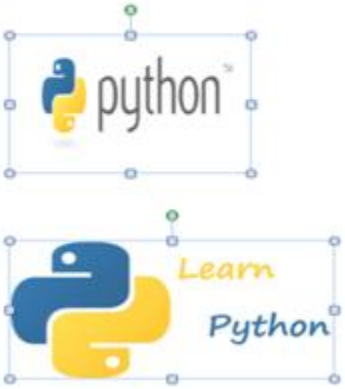
- Click to add text



Adding Shapes

Students Data

Sr. No.	Student Name	Student Id
1	John	115
2	Mary	119
3	Alice	101

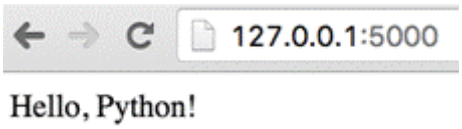


Data based on regions

	A	B	C	D	E	F	G
1	Sr. No.	Manager	Type	Account	Product	Items	UnitPrice
2	1	John	Employee	HPQ	Laptops	100	1200
3	2	John	Employee	HPQ	Software	50	300
4	3	Mary	Partner	GOOG	Software	30	350
5	4	Alice	Employee	AAPL	Laptops	125	800
6	5	Bruce	Partner	NTAP	Laptops	80	1500
7	6	Bruce	Partner	NTAP	Software	70	200
8							

Sales Manager Performance
160000
140000
120000
100000
80000
60000
40000
20000
0
Chart Area
Alice
Bruce
John
Mary
Alice Bruce John Mary

Chapter 7: Power of APIs



Response - http://127.0.0.1:5000/v1/users/

200 OK

Headers

```
Content-Type: application/json
Content-Length: 244
Server: Werkzeug/0.11.10 Python/2.7.10
Date: Sun, 21 Aug 2016 05:08:49 GMT
```

Response body


```
{
    "users": [{
        "active": true,
        "email": "abc@xyz.com",
        "id": 1,
        "username": "cjgiridhar"
    }, {
        "active": false,
        "email": "py@py.org",
        "id": 2,
        "username": "python"
    }]
}
```

Response - http://127.0.0.1:5000/v1/users/1/

200 OK

Headers

```
Content-Type: application/json
Content-Length: 110
Server: Werkzeug/0.10.4 Python/2.7.10
Date: Sun, 21 Aug 2016 05:31:28 GMT
```

Response body


```
{
    "users": {
        "active": true,
        "email": "abc@xyz.com",
        "id": 1,
        "username": "cjgiridhar"
    }
}
```


Request body

Use form data


```
{"username":"user1", "email":"email@email.io"}
```

Response - http://127.0.0.1:5000/v1/users/

201 CREATED

Headers

```
Content-Type: application/json
Content-Length: 108
Server: Werkzeug/0.10.4 Python/2.7.10
Date: Sun, 21 Aug 2016 12:02:01 GMT
```

Response body


```
{
    "user": {
        "active": false,
        "email": "email@email.io",
        "id": 3,
        "username": "user1"
    }
}
```


Request body

Use form data


```
{"email":"my@my.com"}
```

Response - http://127.0.0.1:5000/v1/users/1/

200 OK

Headers

```
Content-Type: application/json
Content-Length: 108
Server: Werkzeug/0.10.4 Python/2.7.10
Date: Sun, 21 Aug 2016 13:28:37 GMT
```

Response body

```
{
    "users": {
        "active": true,
        "email": "my@my.com",
        "id": 1,
        "username": "cjgiridhar"
    }
}
```

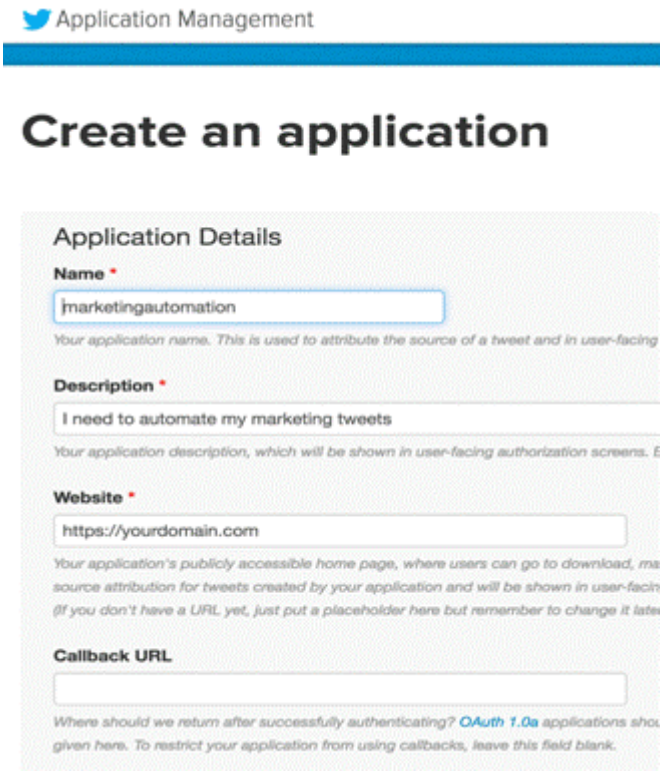
Response - http://127.0.0.1:5000/v1/users/1/

204 NO CONTENT

Headers

```
Content-Type: application/json
Content-Length: 0
Server: Werkzeug/0.10.4 Python/2.7.10
Date: Sun, 21 Aug 2016 13:45:29 GMT
```

Response body



```
Tweet text:  A sci-fi vision of love from the near future:
Tweet created at:  Sun Aug 21 16:44:18 +0000 2016
Tweeted by:  Monica Byrne
Re Tweeted?:  15
```

Chetan Giridhar @cjgiridhar · 16s
Python import antigravity xkcd.com/353/

```
Australia/Sydney
Current Day:Time 2016-08-27 13:24
America/New_York
Current Day:Time 2016-08-26 23:24
Running.. Will try in another min
```

```
Australia/Sydney
Current Day:Time 2016-08-27 13:25
Time 13:25
Content Weekend Offers, avail 30% discount today!
```

Chetan Giridhar @cjgiridhar · 3m
Weekend Offers, avail 30% discount today!

Facebook Connect
Your account is connected to Facebook.

Allow Twitter to:

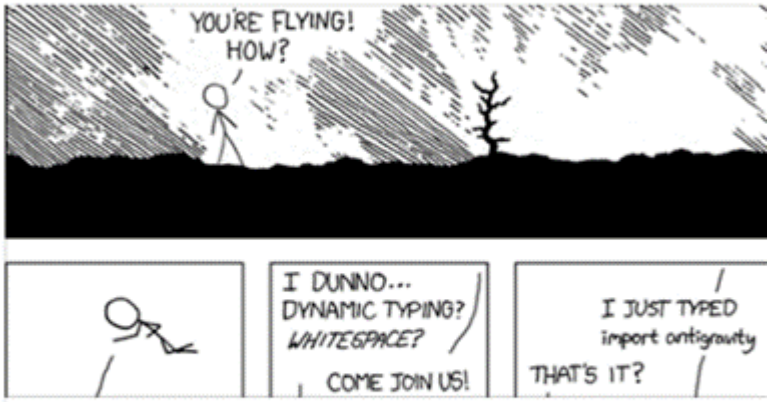
- post retweets to Facebook
- post to my Facebook profile

Allow posting to one of your pages.

@Replies and direct messages will not be posted.

Chetan Giridhar
August 21 at 10:35pm · Twitter ·

Python import antigravity

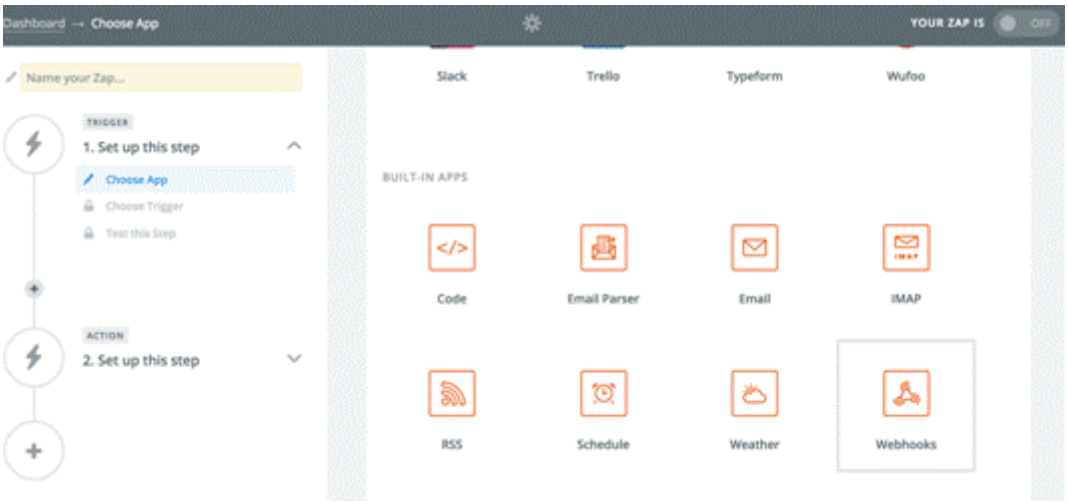


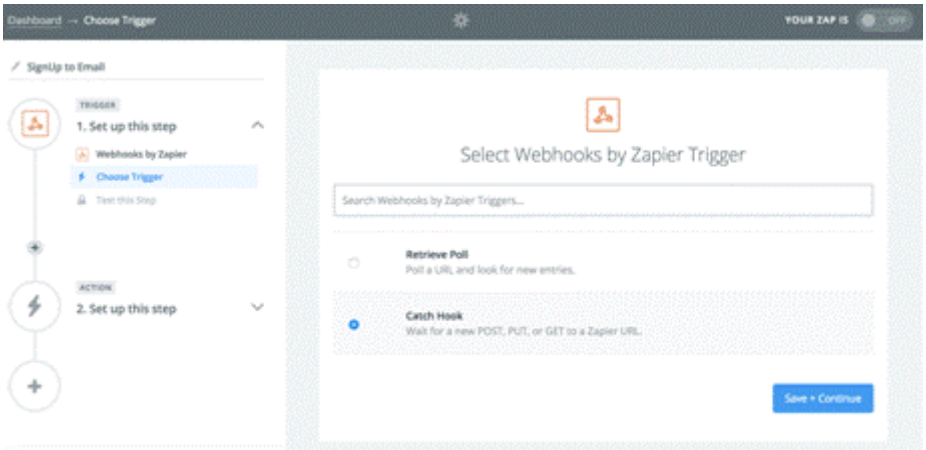
xkcd: Python

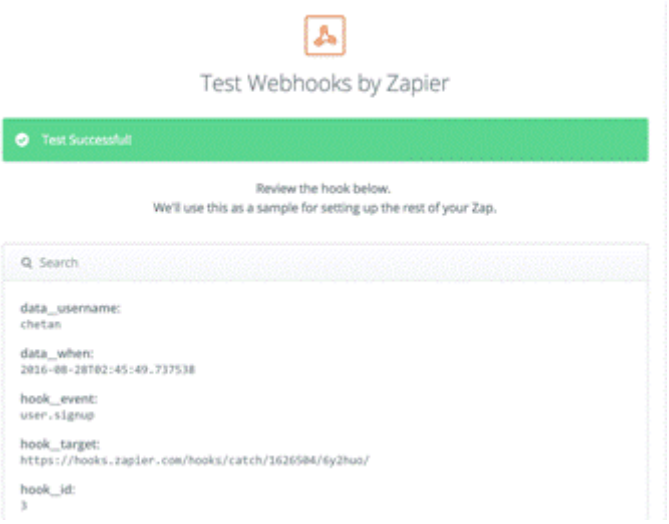
Warning: this comic occasionally contains strong language (which may be unsuitable for children), unusual humor (which may be unsuitable for adults), and advanced mathematics (which may be unsuitable for liberal-arts majors).

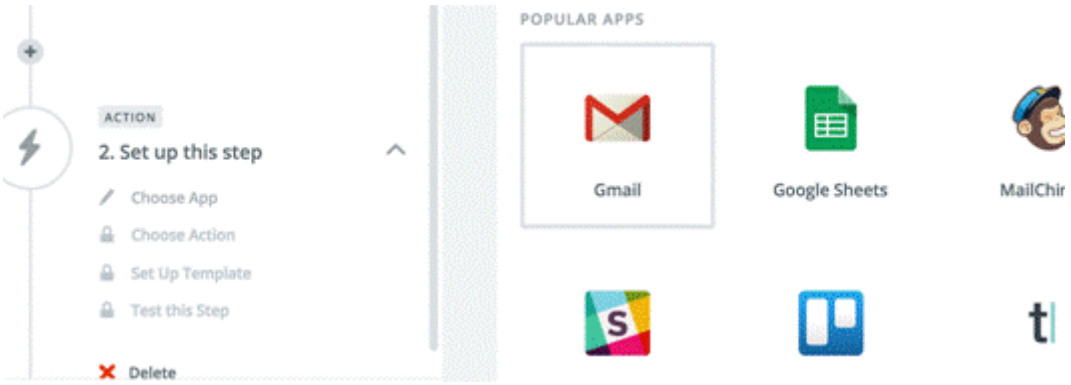
XKCD.COM/353/

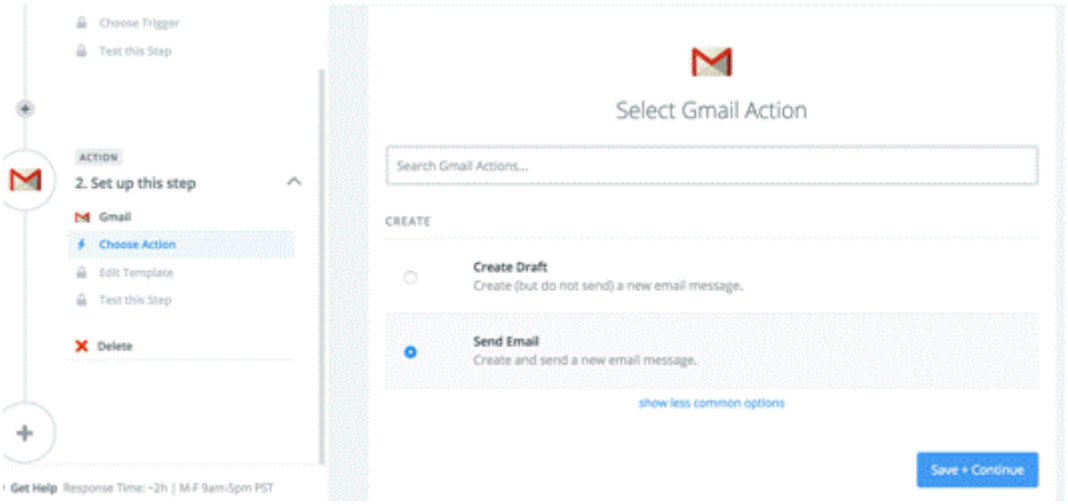
```
INSTALLED_APPS = [
    'django.contrib.admin',
    'django.contrib.auth',
    'django.contrib.contenttypes',
    'django.contrib.sessions',
    'django.contrib.messages',
    'django.contrib.staticfiles',
    'rest_hooks',
    'book',
]

HOOK_EVENTS = {
    'user.signup':    None
}
```

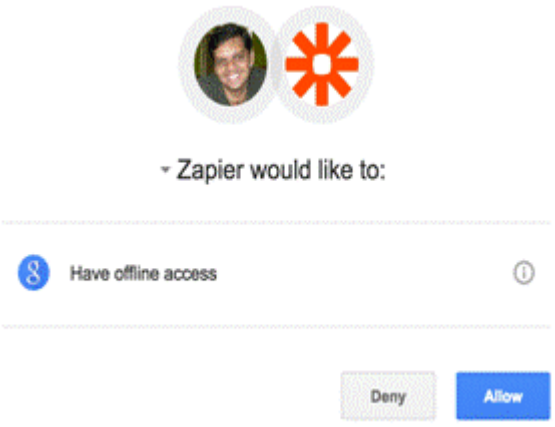


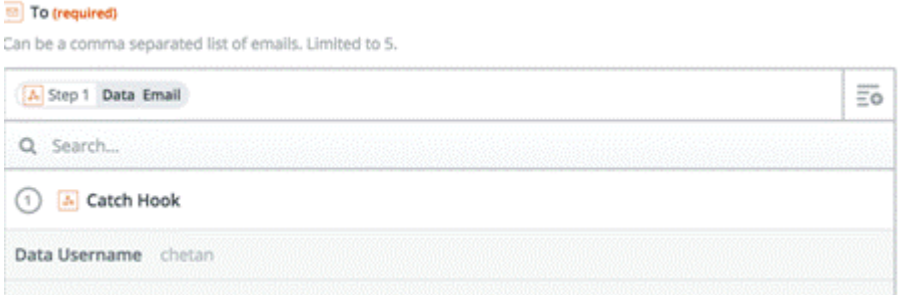


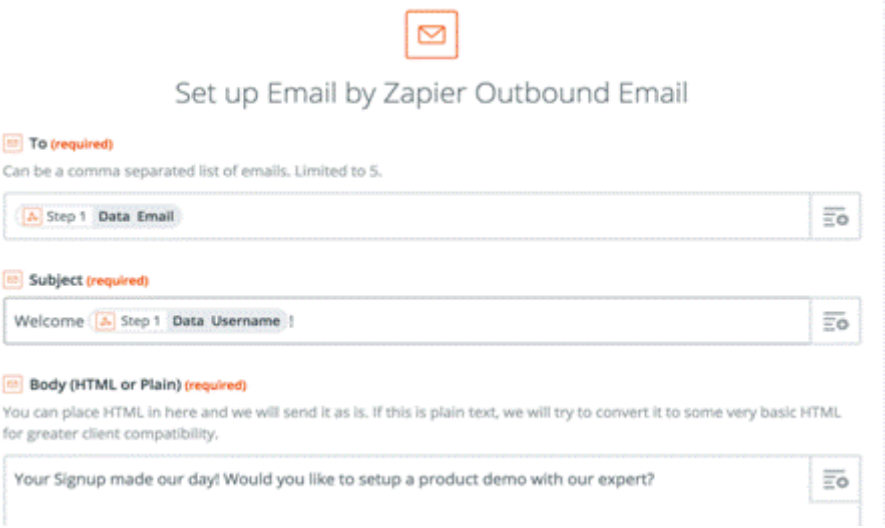

Test Webhooks by Zapier
Test Successful!
Review the hook below.
We'll use this as a sample for setting up the rest of your Zap.
Search
data__username:
chetan
data__when:
2016-08-28T02:45:49.737538
hook__event:
user.signup
hook__target:
https://hooks.zapier.com/hooks/catch/1626504/6y2huo/
hook__id:
3

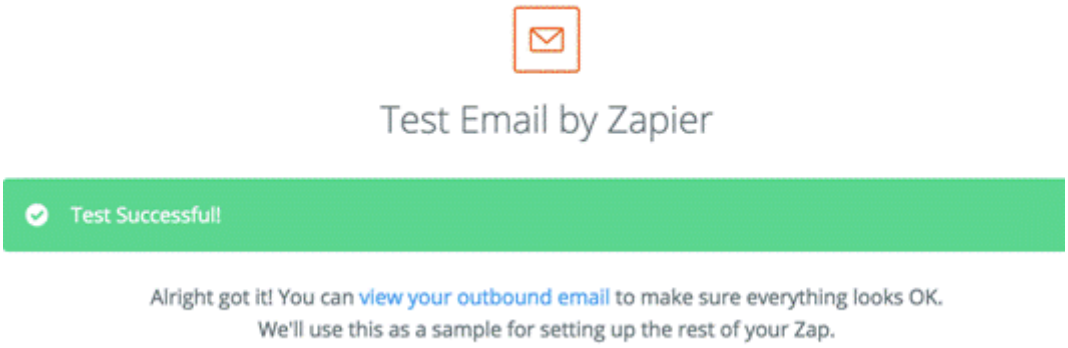

ACTION
2. Set up this step
Choose App
Choose Action
Set Up Template
Test this Step
Delete
POPULAR APPS
Gmail
Google Sheets
MailChir


Choose Trigger
Test this Step
ACTION
2. Set up this step
Gmail
Choose Action
Edit Template
Test this Step
Delete
Get Help Response Time: ~2h | M-F 9am-5pm PST
Select Gmail Action
Search Gmail Actions...
CREATE
Create Draft
Create (but do not send) a new email message.
Send Email
Create and send a new email message.
show less common options
Save + Continue


Zapier would like to:
Have offline access
Deny
Allow

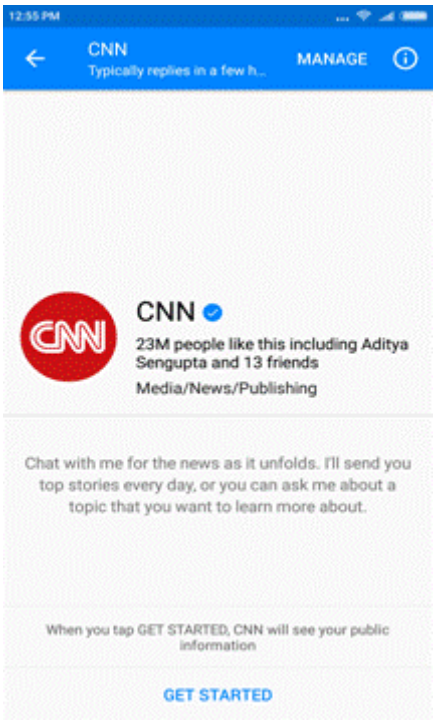

To (required)
Can be a comma separated list of emails. Limited to 5.
Step 1 Data Email
Search...
Catch Hook
Data Username chetan

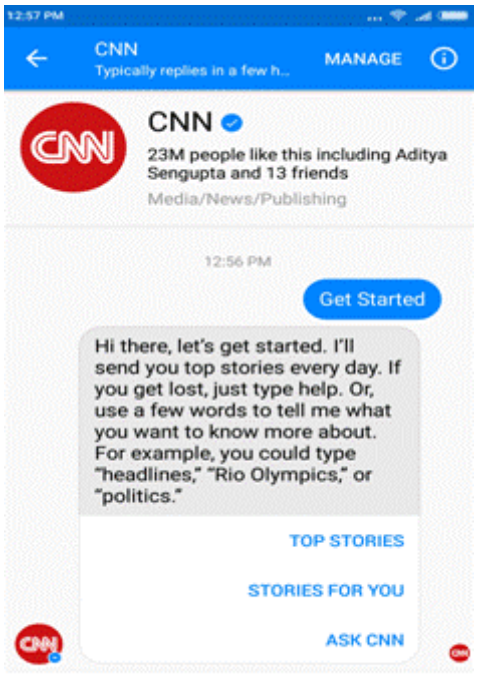

Set up Email by Zapier Outbound Email
To (required)
Can be a comma separated list of emails. Limited to 5.
Step 1 Data Email
Subject (required)
Welcome Step 1 Data Username !
Body (HTML or Plain) (required)
You can place HTML in here and we will send it as is. If this is plain text, we will try to convert it to some very basic HTML for greater client compatibility.
Your Signup made our day! Would you like to setup a product demo with our expert?

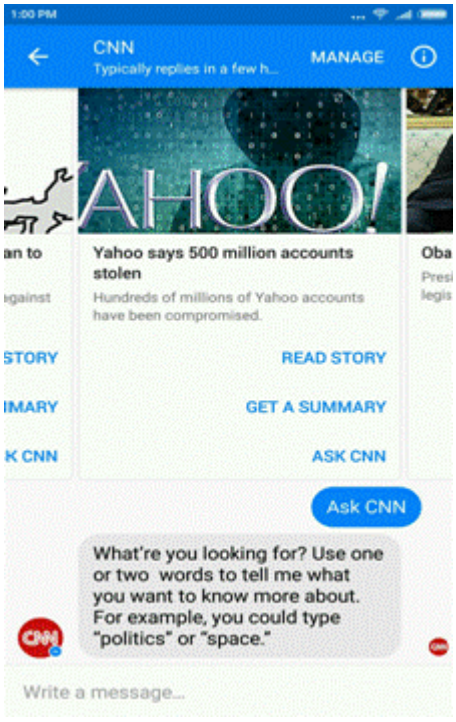

Test Email by Zapier
Test Successful!
Alright got it! You can view your outbound email to make sure everything looks OK.
We'll use this as a sample for setting up the rest of your Zap.

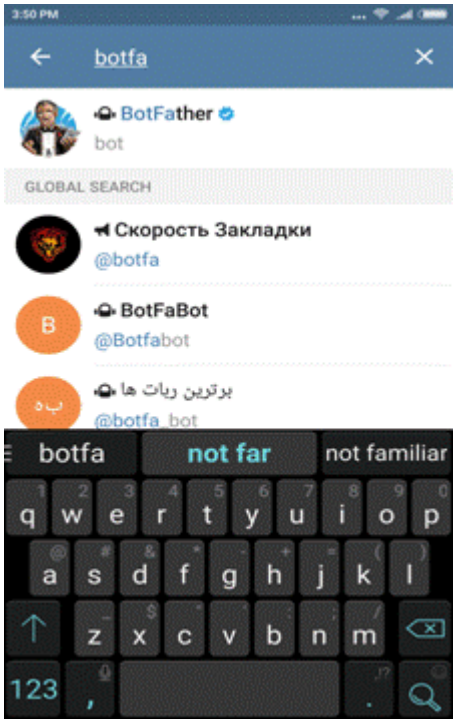
Welcome chetan!
Inbox x
no-reply.vpygy@zapiermail.com
8:19 AM (3 hours ago)
to me
Your Signup made our day! Would you like to setup a product demo with our expert?

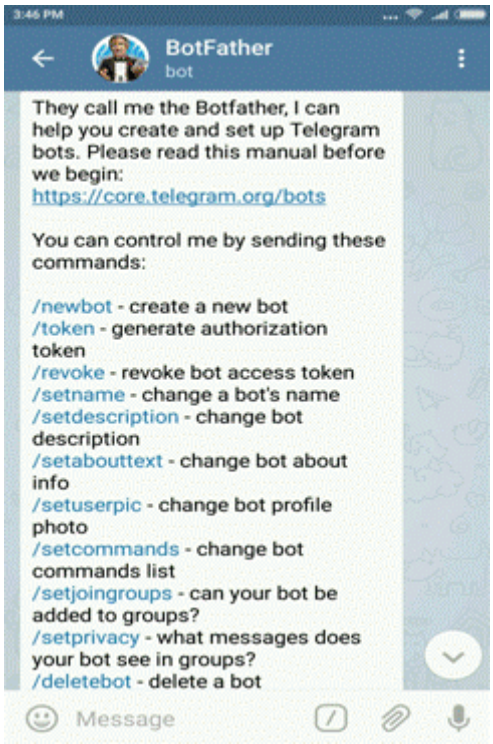
Chapter 8: Talk to Bots

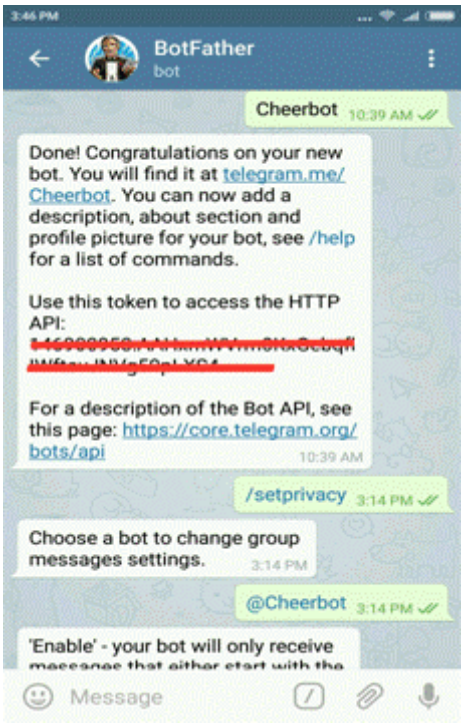



12:57 PM
CNN
Typically replies in a few h...
MANAGE
CNN
23M people like this including Aditya Sengupta and 13 friends
Media/News/Publishing
12:56 PM
Get Started
Hi there, let's get started. I'll send you top stories every day. If you get lost, just type help. Or, use a few words to tell me what you want to know more about. For example, you could type "headlines," "Rio Olympics," or "politics."
TOP STORIES
STORIES FOR YOU
ASK CNN
Write a message...


1:00 PM
CNN
Typically replies in a few h...
MANAGE
Yahoo says 500 million accounts stolen
Hundreds of millions of Yahoo accounts have been compromised.
READ STORY
GET A SUMMARY
ASK CNN
Ask CNN
What're you looking for? Use one or two words to tell me what you want to know more about. For example, you could type "politics" or "space."
Write a message...


3:50 PM
botfa
BotFather
bot
GLOBAL SEARCH
Скорость Закладки
@botfa
BotFaBot
@Botfabot
برترین ربات ها
@botfa_bot
botfa
not far
not familiar

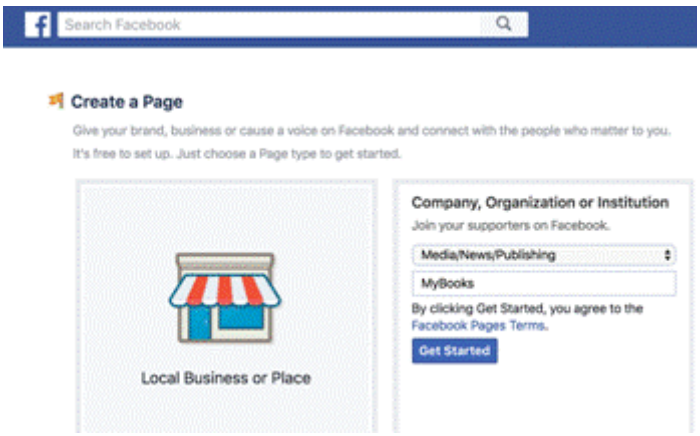

3:46 PM
BotFather
bot
They call me the Botfather, I can help you create and set up Telegram bots. Please read this manual before we begin:
https://core.telegram.org/bots
You can control me by sending these commands:
/newbot - create a new bot
/token - generate authorization token
/revoke - revoke bot access token
/setname - change a bot's name
/setdescription - change bot description
/setabouttext - change bot about info
/setuserpic - change bot profile photo
/setcommands - change bot commands list
/setjoingroups - can your bot be added to groups?
/setprivacy - what messages does your bot see in groups?
/deletebot - delete a bot
Message

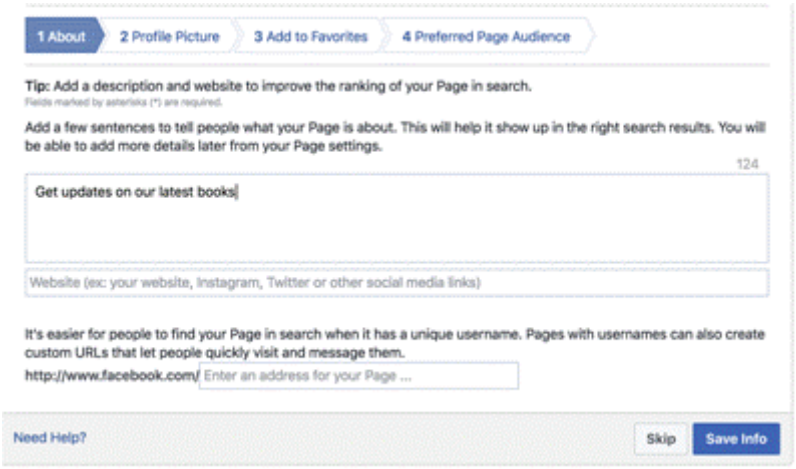

3:46 PM
BotFather
bot
Cheerbot 10:39 AM
Done! Congratulations on your new bot. You will find it at telegram.me/Cheerbot. You can now add a description, about section and profile picture for your bot, see /help for a list of commands.
Use this token to access the HTTP API:
For a description of the Bot API, see this page: https://core.telegram.org/bots/api
10:39 AM
/setprivacy 3:14 PM
Choose a bot to change group messages settings. 3:14 PM
@Cheerbot 3:14 PM
'Enable' - your bot will only receive
Message

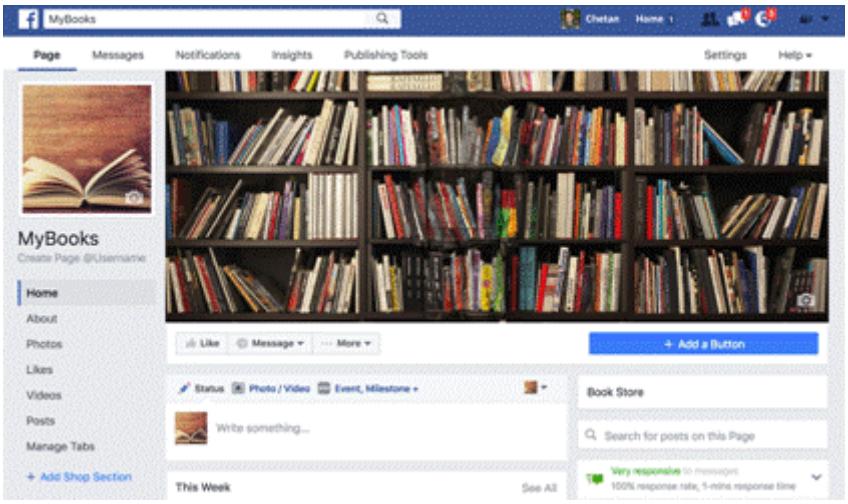
4:27 PM
Chetbot
bot
September 25
/start 4:27 PM
Hey there! How do you feel today?
4:27 PM
Happy
Whatever
Sad
Message

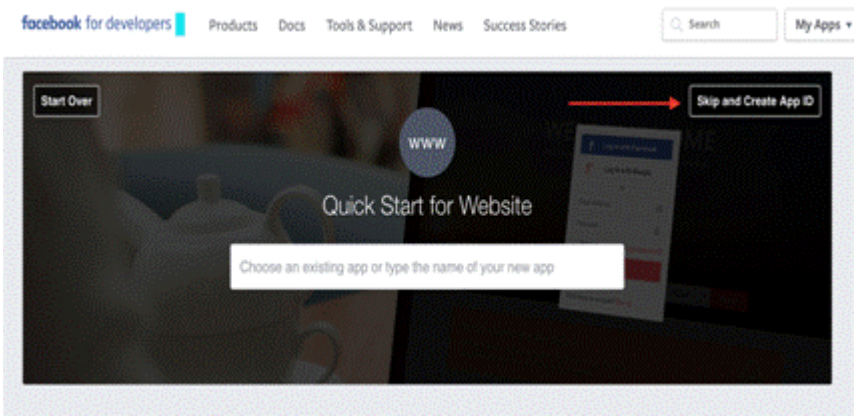
4:28 PM
Chetbot
bot
September 25
/start 4:28 PM
Oh wow! 4:28 PM
Message

```
/Users/chetan/book/ch09/bots/bin/python /Users/chetan/book/ch09/aibot.py
Loading init.xml... done (0.03 seconds)
Loading chat.aiml... done (0.00 seconds)
Enter your message >> hello
Hi, hello!
Enter your message >> who are you?
My name is superman!
Enter your message >>
```




1 About
2 Profile Picture
3 Add to Favorites
4 Preferred Page Audience
Tip: Add a description and website to improve the ranking of your Page in search.
Fields marked by asterisks (*) are required.
Add a few sentences to tell people what your Page is about. This will help it show up in the right search results. You will be able to add more details later from your Page settings.
124
Get updates on our latest books
Website (ex: your website, Instagram, Twitter or other social media links)
It's easier for people to find your Page in search when it has a unique username. Pages with usernames can also create custom URLs that let people quickly visit and message them.
http://www.facebook.com/ Enter an address for your Page ...
Need Help?
Skip
Save Info


MyBooks
Chetan
Home
Page
Messages
Notifications
Insights
Publishing Tools
Settings
Help
MyBooks
Create Page @Username
Home
About
Photos
Likes
Videos
Posts
Manage Tabs
+ Add Shop Section
Like
Message
More
+ Add a Button
Status
Photo / Video
Event, Milestone +
Write something...
Book Store
Search for posts on this Page
This Week
See All



Create a New App ID

Get started integrating Facebook into your app or website

Display Name

Chet

Contact Email

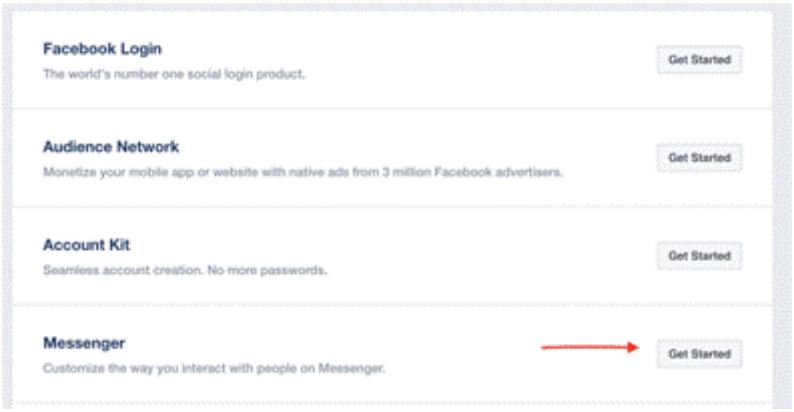
mybooks@mybooks.com

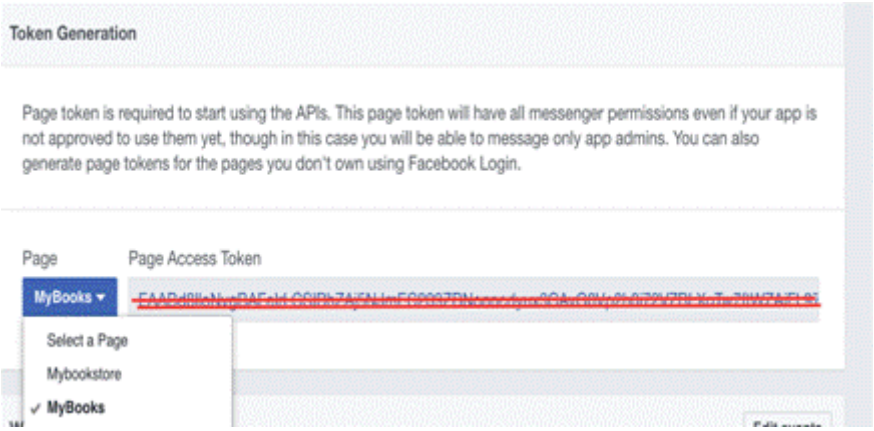
Category

Books

By proceeding, you agree to the Facebook Platform Policies

Cancel | Create App ID





Callback URL

https://2d7d823f.ngrok.io/bot/

Verify Token

token

Cancel Verify and Save

Webhooks Edit events

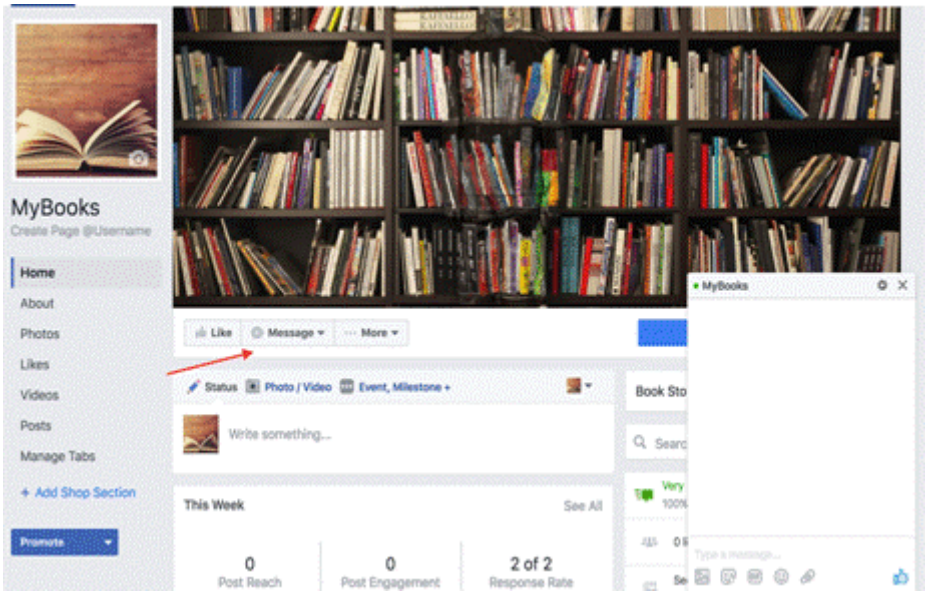
To receive messages and other events sent by Messenger users, the app should enable webhooks integration.

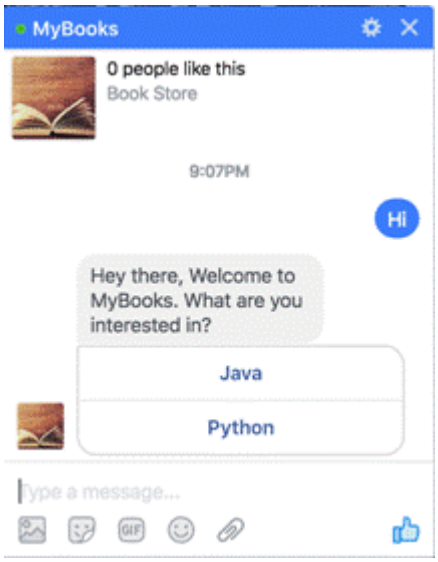
Selected events: **message_deliveries, message_echoes, message_reads, messages, messaging_account_linking, messaging_optins, messaging_postbacks**

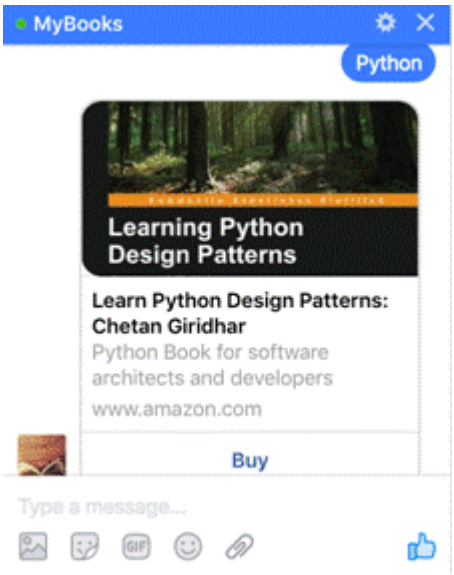
Complete

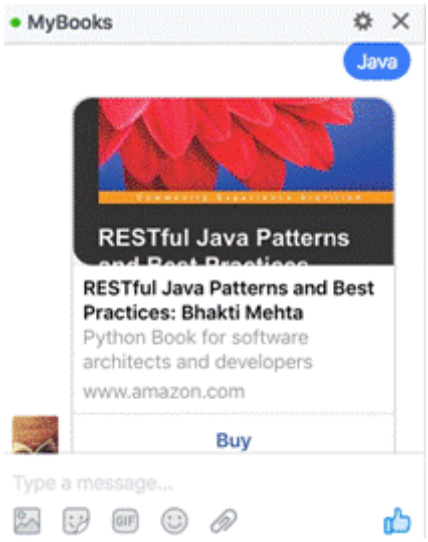
Select a page to subscribe your webhook to the page events Select a Page

Subscribed pages: **MyBooks**




MyBooks
0 people like this
Book Store
9:07PM
Hi
Hey there, Welcome to MyBooks. What are you interested in?
Java
Python
Type a message...


MyBooks
Python
Learning Python Design Patterns
Learn Python Design Patterns: Chetan Giridhar
Python Book for software architects and developers
www.amazon.com
Buy
Type a message...


MyBooks
Java
RESTful Java Patterns
RESTful Java Patterns and Best Practices: Bhakti Mehta
Python Book for software architects and developers
www.amazon.com
Buy
Type a message...

Chapter 9: Imagining Images

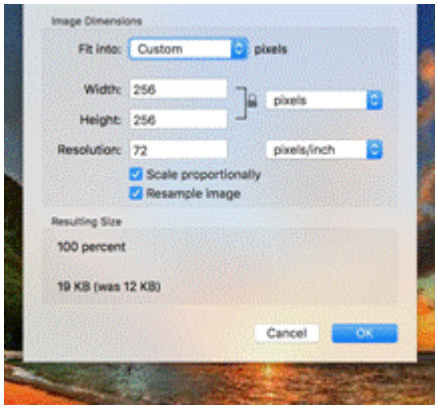
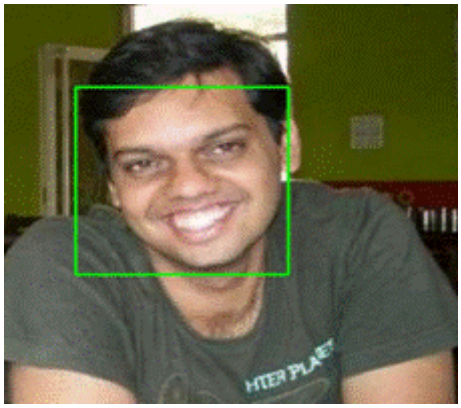


Image Dimensions
Fit into: Custom pixels
Width: 256
Height: 256
pixels
Resolution: 72
pixels/inch
Scale proportionally
Resample Image
Resulting Size
100 percent
19 KB (was 12 KB)
Cancel
OK

Copyrighted Image

Copyrighted Image



Klizan scare for Murray in opener

Vienna: Andy Murray's pursuit of the world No. 1 ranking was severely tested by Slovak left-hander Martin Klizan in his Vienna opener on Wednesday before the British star clinched a 6-3, 6-7 (5-7), 6-0 win.

The 29-year-old Wimbledon and Olympic champion, who is closing in on Novak Djokovic's top ranking, took his season record to 66 wins and just nine losses.

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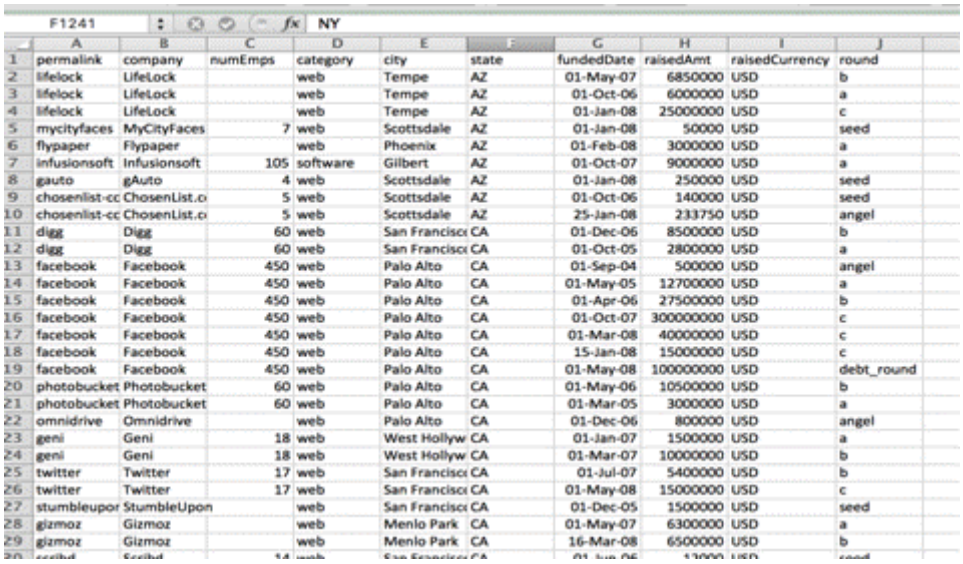
Chapter 10: Data Analysis and Visualizations



F1241 fx NY

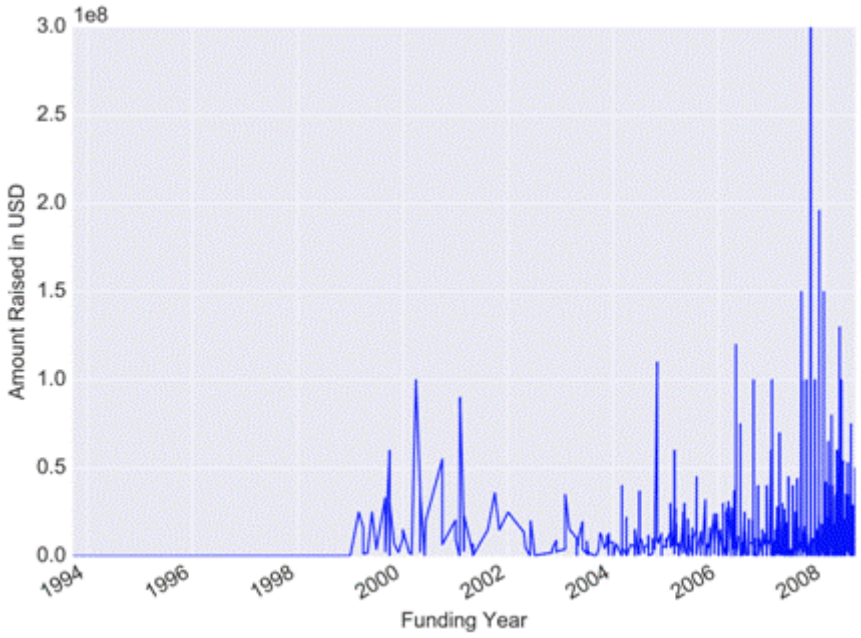
	A	B	C	D	E	F	G	H	I	J
1	permalink	company	numEmps	category	city	state	fundedDate	raisedAmt	raisedCurrency	round
2	lifelock	LifeLock		web	Tempe	AZ	01-May-07	6850000	USD	b
3	lifelock	LifeLock		web	Tempe	AZ	01-Oct-06	6000000	USD	a
4	lifelock	LifeLock		web	Tempe	AZ	01-Jan-08	25000000	USD	c
5	mycityfaces	MyCityFaces	7	web	Scottsdale	AZ	01-Jan-08	50000	USD	seed
6	flypaper	Flypaper		web	Phoenix	AZ	01-Feb-08	3000000	USD	a
7	infusionsoft	Infusionsoft	105	software	Gilbert	AZ	01-Oct-07	9000000	USD	a
8	gauto	gAuto	4	web	Scottsdale	AZ	01-Jan-08	250000	USD	seed
9	chosenlist-cc	ChosenList.c	5	web	Scottsdale	AZ	01-Oct-06	140000	USD	seed
10	chosenlist-cc	ChosenList.c	5	web	Scottsdale	AZ	25-Jan-08	233750	USD	angel
11	digg	Digg	60	web	San Francisc	CA	01-Dec-06	8500000	USD	b
12	digg	Digg	60	web	San Francisc	CA	01-Oct-05	2800000	USD	a
13	facebook	Facebook	450	web	Palo Alto	CA	01-Sep-04	500000	USD	angel
14	facebook	Facebook	450	web	Palo Alto	CA	01-May-05	12700000	USD	a
15	facebook	Facebook	450	web	Palo Alto	CA	01-Apr-06	27500000	USD	b
16	facebook	Facebook	450	web	Palo Alto	CA	01-Oct-07	300000000	USD	c
17	facebook	Facebook	450	web	Palo Alto	CA	01-Mar-08	40000000	USD	c
18	facebook	Facebook	450	web	Palo Alto	CA	15-Jan-08	15000000	USD	c
19	facebook	Facebook	450	web	Palo Alto	CA	01-May-08	100000000	USD	debt_round
20	photobucket	Photobucket	60	web	Palo Alto	CA	01-May-06	10500000	USD	b
21	photobucket	Photobucket	60	web	Palo Alto	CA	01-Mar-05	3000000	USD	a
22	omnidrive	Omnidrive		web	Palo Alto	CA	01-Dec-06	800000	USD	angel
23	geni	Geni	18	web	West Hollyw	CA	01-Jan-07	1500000	USD	a
24	geni	Geni	18	web	West Hollyw	CA	01-Mar-07	10000000	USD	b
25	twitter	Twitter	17	web	San Francisc	CA	01-Jul-07	5400000	USD	b
26	twitter	Twitter	17	web	San Francisc	CA	01-May-08	15000000	USD	c
27	stumbleupor	StumbleUpon		web	San Francisc	CA	01-Dec-05	1500000	USD	seed
28	gizmoz	Gizmoz		web	Menlo Park	CA	01-May-07	6300000	USD	a
29	gizmoz	Gizmoz		web	Menlo Park	CA	16-Mar-08	6500000	USD	b

```
First five rows:
     permalink     company  numEmps category       city state fundedDate  raisedAmt raisedCurrency round
0     lifelock     LifeLock      NaN      web      Tempe    AZ   1-May-07    6850000             USD     b
1     lifelock     LifeLock      NaN      web      Tempe    AZ   1-Oct-06    6000000             USD     a
2     lifelock     LifeLock      NaN      web      Tempe    AZ   1-Jan-08   25000000             USD     c
3  mycityfaces  MyCityFaces      7.0      web  Scottsdale    AZ   1-Jan-08      50000             USD  seed
4     flypaper     Flypaper      NaN      web     Phoenix    AZ   1-Feb-08    3000000             USD     a
```

Top five rows:

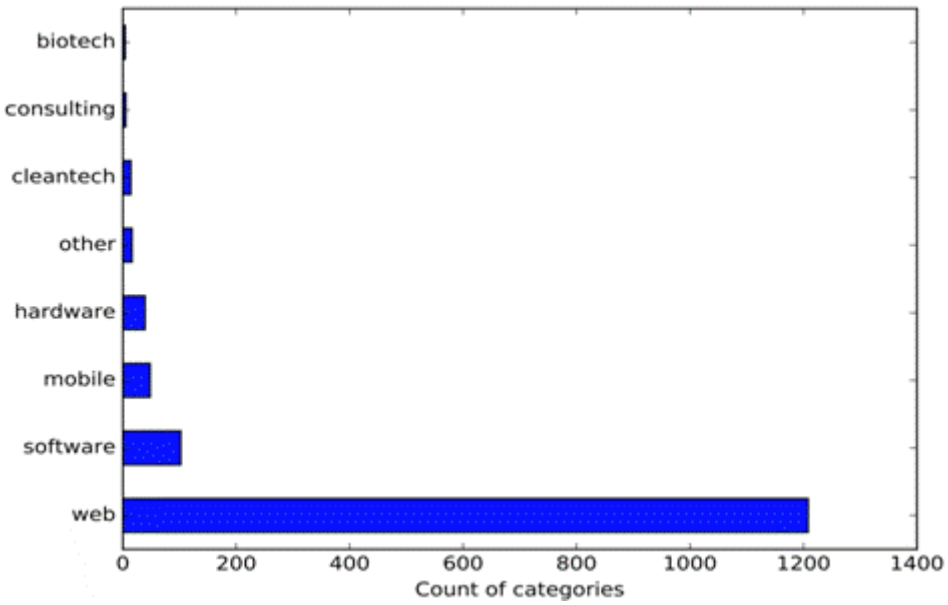
fundedDate	permalink	company	numEmps	category	city	state	raisedAmt	raisedCurrency	round
2007-05-01	lifelock	LifeLock	NaN	web	Tempe	AZ	6850000	USD	b
2006-10-01	lifelock	LifeLock	NaN	web	Tempe	AZ	6000000	USD	a
2008-01-01	lifelock	LifeLock	NaN	web	Tempe	AZ	25000000	USD	c
2008-01-01	mycityfaces	MyCityFaces	7.0	web	Scottsdale	AZ	50000	USD	seed
2008-02-01	flypaper	Flypaper	NaN	web	Phoenix	AZ	3000000	USD	a

```
Funding Raised by Companies over time:
fundedDate
2007-05-01     6850000
2006-10-01     6000000
2008-01-01    25000000
2008-01-01       50000
2008-02-01     3000000
Name: raisedAmt, dtype: int64
```



Selected company, category and date of funding:

	company	category	fundedDate
600	RocketOn	web	1-Feb-08
601	What They Like	web	29-Aug-07
602	GumGum	web	1-Dec-07
603	GumGum	web	21-Jul-08
604	Snap Technologies	web	1-Jul-05
605	TwoFish	web	1-Jun-07
606	Three Rings	web	3-Mar-08
607	Smalltown	web	1-Nov-05
608	Sparkplay Media	web	1-Feb-08
609	MOG	web	1-Mar-07
610	MOG	web	29-Apr-08
611	Social Gaming Network	web	13-May-08
612	Danger	software	1-Oct-01
613	Danger	software	1-Feb-03
614	Danger	software	1-Jul-04
615	Coverity	software	1-Feb-08
616	GenieTown	web	1-Oct-07
617	Redux	web	1-Mar-07
618	Redux	web	7-Apr-08
619	Evernote	software	1-Mar-06
620	Evernote	software	1-Sep-07
621	Numobiq	mobile	8-Feb-08
622	GoldSpot Media	mobile	23-Jan-08
623	Mobixell	mobile	8-Jul-08
624	Ad Infuse	mobile	23-Jan-08
625	Ad Infuse	mobile	1-Jun-06
626	SendMe	mobile	1-Dec-06
627	SendMe	mobile	18-Mar-08
628	Tiny Pictures	mobile	1-Aug-07
629	Tiny Pictures	mobile	1-Feb-08
630	flurry	mobile	8-Mar-07
631	Sharpcast	NaN	8-Mar-06
632	Sharpcast	NaN	8-Mar-06
633	Teneros	software	1-Jul-04
634	Teneros	software	1-Mar-05
635	Teneros	software	1-Apr-06
636	Teneros	software	1-Jan-08
637	PhotoCrank	web	1-Apr-07
638	Yodlee	web	4-Jun-08
639	SlideRocket	web	31-Dec-07
640	Surf Canyon	software	31-Jul-07
641	Surf Canyon	software	8-May-08
642	Central Desktop	web	16-Apr-08
643	OpenDNS	web	1-Jun-06
644	Coveo	web	6-Mar-08
645	Vizu	web	20-Feb-06
646	Vizu	web	31-Jan-07
647	Taltopia	web	8-Mar-08
648	Kapow Technologies	web	6-Mar-08
649	Kapow Technologies	web	1-Feb-05

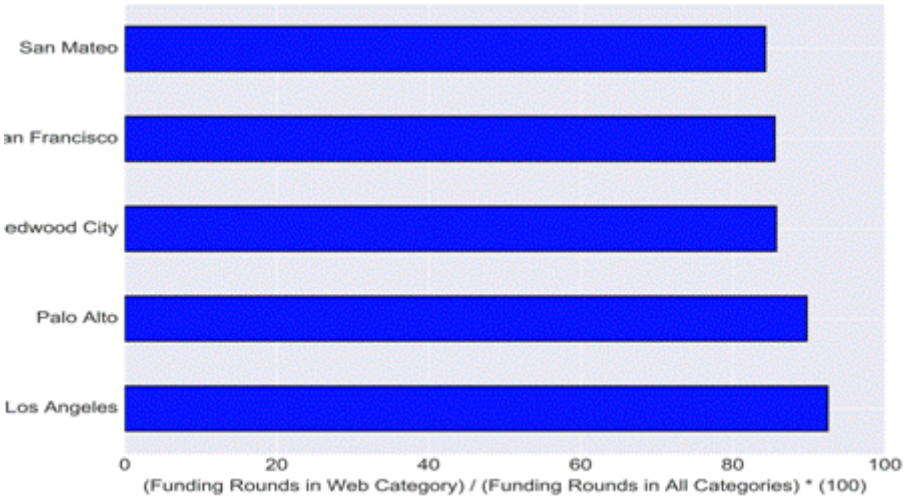


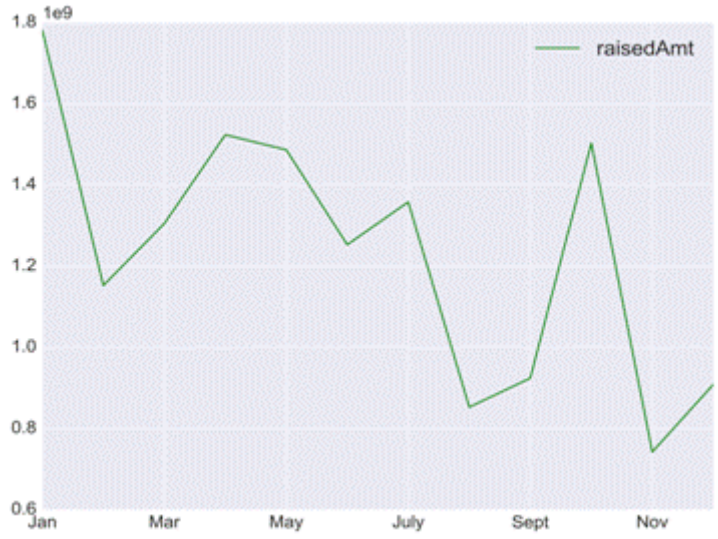
Filtered Data:

fundedDate	permalink	company	numEmps	category	city	state	raisedAmt	raisedCurrency	round
2006-12-01	digg	Digg	60.0	web	San Francisco	CA	8500000	USD	b
2005-10-01	digg	Digg	60.0	web	San Francisco	CA	2800000	USD	a
2004-09-01	facebook	Facebook	450.0	web	Palo Alto	CA	500000	USD	angel
2005-05-01	facebook	Facebook	450.0	web	Palo Alto	CA	12700000	USD	a
2006-04-01	facebook	Facebook	450.0	web	Palo Alto	CA	27500000	USD	b
2007-10-01	facebook	Facebook	450.0	web	Palo Alto	CA	300000000	USD	c
2008-03-01	facebook	Facebook	450.0	web	Palo Alto	CA	40000000	USD	c
2008-01-15	facebook	Facebook	450.0	web	Palo Alto	CA	15000000	USD	c
2008-05-01	facebook	Facebook	450.0	web	Palo Alto	CA	100000000	USD	debt_round
2006-05-01	photobucket	Photobucket	60.0	web	Palo Alto	CA	10500000	USD	b
2005-03-01	photobucket	Photobucket	60.0	web	Palo Alto	CA	3000000	USD	a
2006-12-01	omnidrive	Omnidrive	NaN	web	Palo Alto	CA	800000	USD	angel
2007-07-01	twitter	Twitter	17.0	web	San Francisco	CA	5400000	USD	b

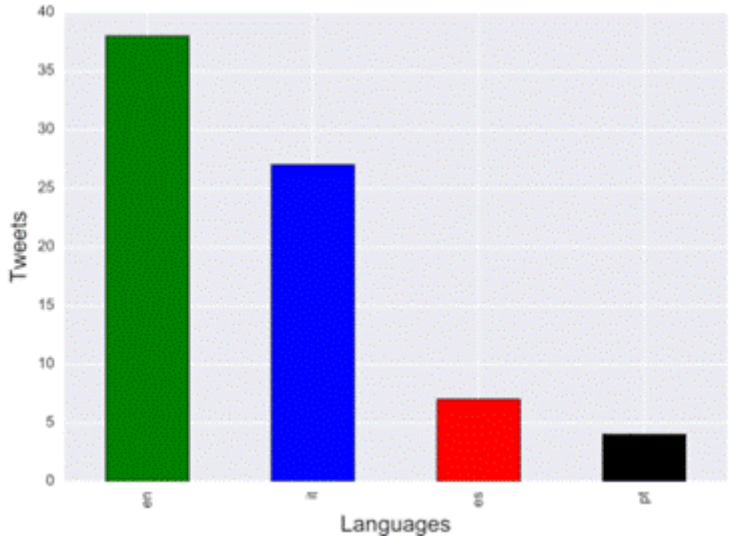
```
Funding rounds for companies in 'web' category by cities in CA:
San Francisco    195
Palo Alto         70
San Mateo         59
Los Angeles       37
Redwood City      36
Name: city, dtype: int64
```

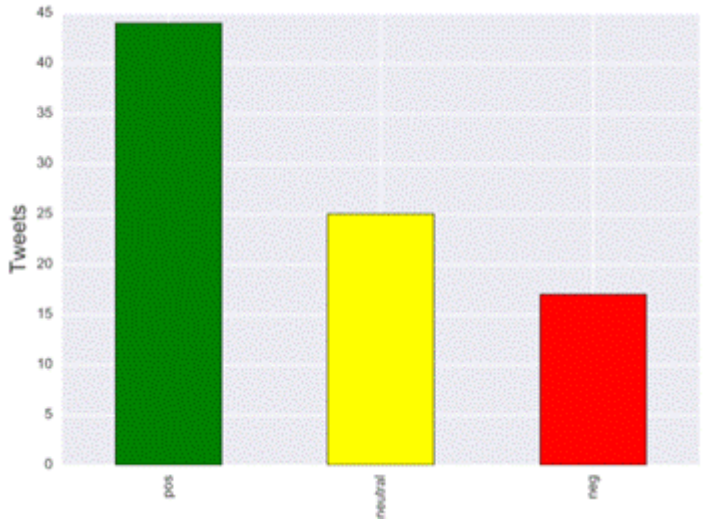
```
Funding rounds for companies in 'all' categories by cities in CA:
San Francisco    228
Palo Alto         78
San Mateo         70
Redwood City      42
Los Angeles       40
Name: city, dtype: int64
```


San Mateo
an Francisco
edwood City
Palo Alto
Los Angeles
0
20
40
60
80
100
(Funding Rounds in Web Category) / (Funding Rounds in All Categories) * (100)


1e9
1.8
1.6
1.4
1.2
1.0
0.8
0.6
raisedAmt
Jan
Mar
May
July
Sept
Nov

month	round	raisedAmt
1	a	560500000
	angel	8088750
	b	503600000
	c	323400000
	d	255500000
	debt_round	67000000
	e	22000000
	seed	20493000
	unattributed	20500000
2	a	375500000
	angel	10500000
	b	238950000
	c	213200000
	d	267000000
	debt_round	4000000
	e	40000000
	seed	3630000
3	a	507490000
	angel	16000000




Tweets
45
40
35
30
25
20
15
10
5
0
pos
neutral
neg

Chapter 11: Time in the Zone

```
(date)chetans-MacBookPro:ch12 Chetan$ python time_ex.py
Time object is: 13:02:23
Hour  : 13
Minute: 2
Second: 23
Microsecond: 0
```

```
(date)chetans-MacBookPro:ch12 Chetan$
(date)chetans-MacBookPro:ch12 Chetan$ python time_ex.py
Time Attributes are:
Earliest time of the day : 00:00:00
Latest time of the day : 23:59:59.999999
```

```
(date)chetans-MacBookPro:ch12 Chetan$ python date_ex.py
  Date object: 2016-11-27
  Year: 2016
  Mon : 11
  Day : 27
```

```
(date)chetans-MacBookPro:ch12 Chetan$ python date_ex.py
  Date is: 2011-12-31
  New Date is: 2012-01-31
```

```
(date)chetans-MacBookPro:ch12 Chetan$ python calendar_ex.py
                                  2017

      January                   February                  March
Mo Tu We Th Fr Sa Su      Mo Tu We Th Fr Sa Su      Mo Tu We Th Fr Sa Su
                   1                  1  2  3  4  5            1  2  3  4  5
 2  3  4  5  6  7  8       6  7  8  9 10 11 12       6  7  8  9 10 11 12
 9 10 11 12 13 14 15      13 14 15 16 17 18 19      13 14 15 16 17 18 19
16 17 18 19 20 21 22      20 21 22 23 24 25 26      20 21 22 23 24 25 26
23 24 25 26 27 28 29      27 28                     27 28 29 30 31
30 31

      April                     May                       June
Mo Tu We Th Fr Sa Su      Mo Tu We Th Fr Sa Su      Mo Tu We Th Fr Sa Su
                1  2       1  2  3  4  5  6  7               1  2  3  4
 3  4  5  6  7  8  9       8  9 10 11 12 13 14       5  6  7  8  9 10 11
10 11 12 13 14 15 16      15 16 17 18 19 20 21      12 13 14 15 16 17 18
17 18 19 20 21 22 23      22 23 24 25 26 27 28      19 20 21 22 23 24 25
24 25 26 27 28 29 30      29 30 31                  26 27 28 29 30

       July                    August                  September
Mo Tu We Th Fr Sa Su      Mo Tu We Th Fr Sa Su      Mo Tu We Th Fr Sa Su
                1  2          1  2  3  4  5  6                  1  2  3
 3  4  5  6  7  8  9       7  8  9 10 11 12 13       4  5  6  7  8  9 10
10 11 12 13 14 15 16      14 15 16 17 18 19 20      11 12 13 14 15 16 17
17 18 19 20 21 22 23      21 22 23 24 25 26 27      18 19 20 21 22 23 24
24 25 26 27 28 29 30      28 29 30 31               25 26 27 28 29 30
31

      October                   November                  December
Mo Tu We Th Fr Sa Su      Mo Tu We Th Fr Sa Su      Mo Tu We Th Fr Sa Su
                   1            1  2  3  4  5                  1  2  3
 2  3  4  5  6  7  8       6  7  8  9 10 11 12       4  5  6  7  8  9 10
 9 10 11 12 13 14 15      13 14 15 16 17 18 19      11 12 13 14 15 16 17
16 17 18 19 20 21 22      20 21 22 23 24 25 26      18 19 20 21 22 23 24
23 24 25 26 27 28 29      27 28 29 30               25 26 27 28 29 30 31
30 31
```

```
   November 2017
Mo Tu We Th Fr Sa Su
       1  2  3  4  5
 6  7  8  9 10 11 12
13 14 15 16 17 18 19
20 21 22 23 24 25 26
27 28 29 30
```

```
(date)chetans-MacBookPro:ch12 Chetan$ python date_arithmetic.py
  Time Now 2016-11-27 11:59:18.077825
  Time Now 2016-11-27 11:59:23.083190
  Difference in the times is: 0:00:05.005365
(date)chetans-MacBookPro:ch12 Chetan$
```

```
(date)chetans-MacBookPro:ch12 Chetan$ python date_delta.py
  Time Now is: 2016-11-27 16:28:46.223133
  Tomorrow is: 2016-11-28 16:28:46.223133
```

```
(date)chetans-MacBookPro:ch12 Chetan$ python date_delta.py
  Time Now is: 2016-11-27 16:34:15.168055
  Last year: 2015-11-28 15:34:15.168055
```

```
(date)chetans-MacBookPro:ch12 Chetan$ python time_date_compare.py
   Time 1: 08:09:10
   Time 2: 13:19:50
   Comparing times: time_2 > time_1? True
   Date 1: 2016-11-27
   Date 2: 2016-11-29
   Comparing dates: date_1 > date_2? False
(date)chetans-MacBookPro:ch12 Chetan$
```

```
(date)chetans-MacBookPro:ch12 Chetan$ python time_date_combine.py
  Times: 13:44:55 13:44:55
  Dates: 2016-11-27 2016-11-28
  Datetime Difference: 1 day, 0:00:00
```

```
(date)chetans-MacBookPro:ch12 Chetan$ python datetime_format.py
  ISO datetime:  2016-11-27 20:16:47.753303
  Datetime in String format: Sun Nov 27 20:16:47 2016
  Datetime from unix timestamp: 2010-09-10 12:21:25
  Unix timestamp 1333218600
  1000th day from 1 Jan 0001:  0003-09-27
(date)chetans-MacBookPro:ch12 Chetan$
```

```
  (date)chetans-MacBookPro:ch12 Chetan$ python timezone_ex.py
    Local time now is: 2016-11-28 22:20:59.775661
    UTC time now is: 2016-11-28 16:50:59.776152
```

```
(date)chetans-MacBookPro:ch12 Chetan$ python timezone_ex.py
  Selected time zone: UTC
  Switched to time zone: US/Eastern
  Local time in Eastern time zone: 2016-11-27 07:00:00 EST-0500
(date)chetans-MacBookPro:ch12 Chetan$ _
```

```
(date)chetans-MacBookPro:ch12 Chetan$ python timezone_ex.py
  Local time in Sydney: 2002-10-27 06:00:00+10:05
  10 minutes before time was: 2002-10-27 05:50:00+10:05
  18 hours later it is: 2002-10-28 00:00:00+10:05
```

```
(date)chetans-MacBookPro:ch12 Chetan$ python timezone_ex.py
  Date time 1 with day light savings: 2016-11-06 01:30:00 EDT-0400
  Date time 2 without day light savings: 2016-11-06 01:30:00 EST-0500
```

```
(date)chetans-MacBookPro:ch12 Chetan$ python timezone_ex.py
  Time zones in Australia: Australia/Lord_Howe
  Antarctica/Macquarie
  Australia/Hobart
  Australia/Currie
  Australia/Melbourne
  Australia/Sydney
  Australia/Broken_Hill
  Australia/Brisbane
  Australia/Lindeman
  Australia/Adelaide
  Australia/Darwin
  Australia/Perth
  Australia/Eucla

  Country names are:
   Britain (UK)
   France
```

Anzee Corporation

Account Name: John
Invoice for month of: November

Payments and Usage:

Charge Type	Amount
Payments Done	$12.0
Total Usage	$5.0

Anzee Corporation

Account Name: John
Invoice for month of: November

Payments and Usage:

Charge Type	Amount
Payments Done	$17.0
Total Usage	$5.0