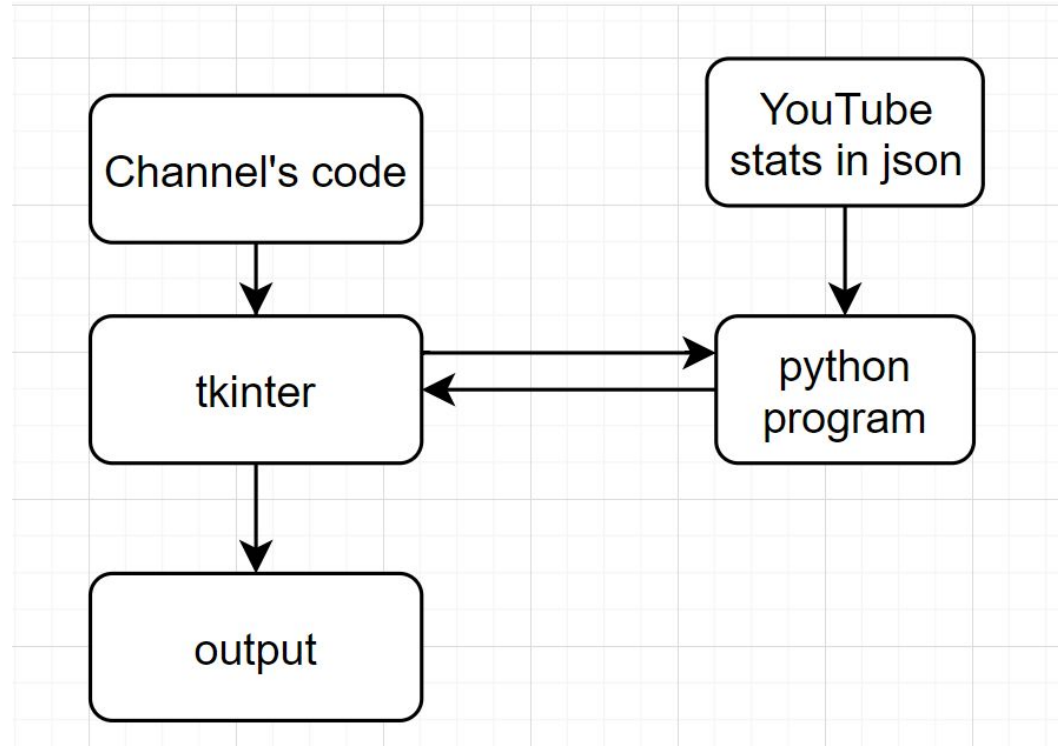


Extracting Youtube statistics using python

A presentation by Shubham Barve, Jayshil Patel
Josh Patel



How does the code work?





How to retrieve YouTube's statistics

Using google API we can generate our own API key

Using our API key and channel's ID number we can redirect to a page using Json



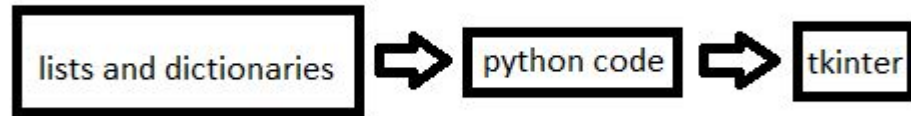
The google API returns us this page

```
{
  "kind": "youtube#channelListResponse",
  "etag": "lAThRR5tY-iM8Yb5J1C1Tqz7Egk",
  "pageInfo": {
    "resultsPerPage": 1
  },
  "items": [
    {
      "kind": "youtube#channel",
      "etag": "vNTc-Klrk3_E_jLRkHUBHjvVRfU",
      "id": "UCAov2BBv1ZJav0c_yHEciAw",
      "statistics": {
        "viewCount": "64633742",
        "commentCount": "0",
        "subscriberCount": "477000",
        "hiddenSubscriberCount": false,
        "videoCount": "233"
      }
    }
  ]
}
```



The page consists of Lists and dictionaries

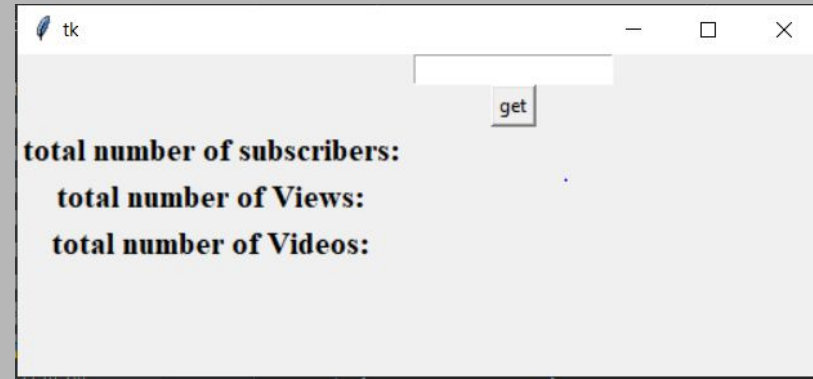
The lists and dictionaries can not be decoded and sent to Tkinter





What is tkinter

- It is Graphical user interface
- It displays output and takes input via a window
- We use tkinter to make user interface better rather than using terminal





Tkinter functions

- **function _name.Tk():**-to create tkinter window
- **function_name.mainloop():**- .mainloop() is an infinite loop used to run the application, wait for an event and process the event as long as the window is not closed, the functions following it will be executed after the window is closed
- **function_name.geometry():**- this will set the grid size of the interpreter window
- **label_name.label():**- this will make a label which will do functions like show text select font size etc.
- **label_name.grid():**-this will set the grid location of label which is to be displayed on window



```
sub=json.loads(data) ['items'] [0] ["statistics"  
] ["subscriberCount"]
```

How this line works?

```
{  
  "kind": "youtube#channelListResponse",  
  "etag": "lAThRR5tY-iM8Yb5J1C1Tqz7Egk",  
  "pageInfo": {  
    "resultsPerPage": 1  
  },  
  "items": [  
    {  
      "kind": "youtube#channel",  
      "etag": "vNTc-Klrk3_E_jLRkHUBHjvVRfU",  
      "id": "UCAov2BBv1ZJav0c_yHEciAw",  
      "statistics": {  
        "viewCount": "64633742",  
        "commentCount": "0",  
        "subscriberCount": "477000",  
        "hiddenSubscriberCount": false,  
        "videoCount": "233"  
      }  
    }  
  ]  
}
```


Thank you!