

IBM Watson Cheat Sheet

by zacfac15 via cheatography.com/98532/cs/22344/

IBM Watson Website

Link https://cloud.i-bm.com

Create Ressource AI -> Visual Recognition

make service Lite Plan

get important information

Installation

Install opencv pip install opencv-python
Install ibm-pip install ibm-watson watson

Test Application

Send Picture to Goolge press d

Quit application press q

Paste in a Pythonfile

```
import cv2
from ibm_watson import Visual-
RecognitionV3
from ibm_cloud_sdk_core.authe-
nticators import IAMAuthen-
ticator
import json
import sys
authenticator = IAMAuthenticato-
r('API KEY')
service = VisualRecognitionV3(
    version='2020-02-26',
    authenticator=authenticator
service.set_service_url('URL')
cap = cv2.VideoCapture(0)
key = ''
```

Paste in a Pythonfile (cont)

```
while( key != 'q' ):
    ret, frame = cap.read()
    cv2.imshow('frame', frame)
intkey = cv2.waitKey(2)
    if( intkey > 0 ):
        key = chr(intkey)
    else:
        key = ''
    if key == 'd' :
        cv2.imwrite('uploa-
d.jpg', frame)
        with open('upload.jp-
g','rb') as file:
            classes = service.c-
lassify(images_file=file,thres-
hold='0.6').get_result()
            print(json.dumps(c-
lasses, indent=2))
```

Speech to Text

```
curl -X POST -u "apikey:
{apikey}" \
--header "Content-Type: audio/-
flac" \
--data-binary @{path_to_file}-
audio-file.flac \
"{url}/v1/recognize?timestamps=-
true&max alternatives=3"
```

Speech to Text

install curl

Speech to Text

Speech to Text (cont)

```
["tornadoes":, 1.51,
2.15],
            ["touch":, 2.15,
2.5],
        }.
          "confidence": 0.96
          "transcript": "several
tornadoes touch down as a line
of severe thunderstorms swept
through Colorado on Sunday "
        },
          "transcript": "several
tornadoes touched down as a line
severe thunderstorms swept
through Colorado on Sunday "
        },
          "transcript": "several
tornadoes touch down as a line
of severe thunderstorms swept
through Colorado and Sunday "
      ],
      "final": true
 ],
  "result_index": 0
```



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