# IBM Watson Cheat Sheet

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

## IBM Watson Website

| | |
|---|---|
| Link | https://cloud.ibm.com |
| Create Ressource | AI -> Visual Recognition |
| make service | Lite Plan |
| get important information | API Key and URL |

## Installation

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

## Test Application

| | |
|---|---|
| Send Picture to Goolge press | d |
| Quit application press | q |

## Paste in a Pythonfile

```
import cv2
from ibm_watson import Visual -
Rec ogn itionV3
from ibm_cl oud _sd k_c ore.au -
the nti cators import IAMAut -
hen ticator
import json
import sys

authen ticator = IAMAut hen -
tic ato r('API KEY')
service = Visual Rec ogn iti -
onV3(
        ver sio n=' 202 0-0 2-
26',
        aut hen tic ato r=a -
uth ent icator
)
servic e.s et_ ser vic e_u -
rl( 'URL')

cap = cv2.Vi deo Cap ture(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('upload.jpg', frame)
        with open('upload.jpg','rb') as file:
            classes = service.classify(images_-
file=file,threshold='0.6').get_result()
            print(json.dumps(classes, indent=2))
```

## Speech to Text

```
curl -X POST -u "apikey:
{apikey}" \
--header " Con ten t-Type:
audio/ fla c" \
--data -binary @{path _to _fi -
le} aud io- fil e.flac \
" {ur l}/ v1/ rec ogn ize ?ti -
mes tam ps= tru e& max _al ter -
nat ive s=3 "
```

## Speech to Text

| | |
|---|---|
| install | curl |

## Speech to Text

```
{
    " res ult s": [
        {
            " alt ern ati -
ves ": [
                {
                    " tim est -
amp s": [
                        ["se -
ver al":, 1.0, 1.51],
```

## 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 of
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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