

Fingerprint MATCHING
menggunakan SIFT (ORB) & brute-force hamming distance

referensi:
<https://github.com/kjanko/python-fingerprint-recognition>
download kode dan contoh gambar fingerprint

Persiapan program tool :

Python versi 3.x.x
install opencv : > pip install opencv-contrib-python
install SKImage: > pip install skimage update> ***pip install scikit-image***
install Numpy: > pip install numpy

DOWNLOAD contoh KODE menggunakan git clone

```
> git clone https://github.com/kjanko/python-fingerprint-recognition.git  
> cd python-fingerprint-recognition
```

atau download file ZIP: python-fingerprint-recognition-master.zip

modifikasi app.py pada baris ke-9

```
os.chdir("/Users/sashwatk/Documents/projects/git-repos/python-fingerprint-recognition")
```

sesuaikan lokasi program app.py dengan lokasi folder pada PC yang digunakan

```
os.chdir("/home/it20/fp/python-fingerprint-recognition")
```

contoh untuk sistem operasi WINDOWS:
os.chdir("C:\\users\\bana\\biometrics\\python-fingerprint-recognition")

atau diberi tanda komentar diawal baris

```
#os.chdir("/Users/sashwatk/Documents/projects/git-repos/python-fingerprint-recognition")
```

Contoh eksekusi program untuk membandingkan DUA fingerprint

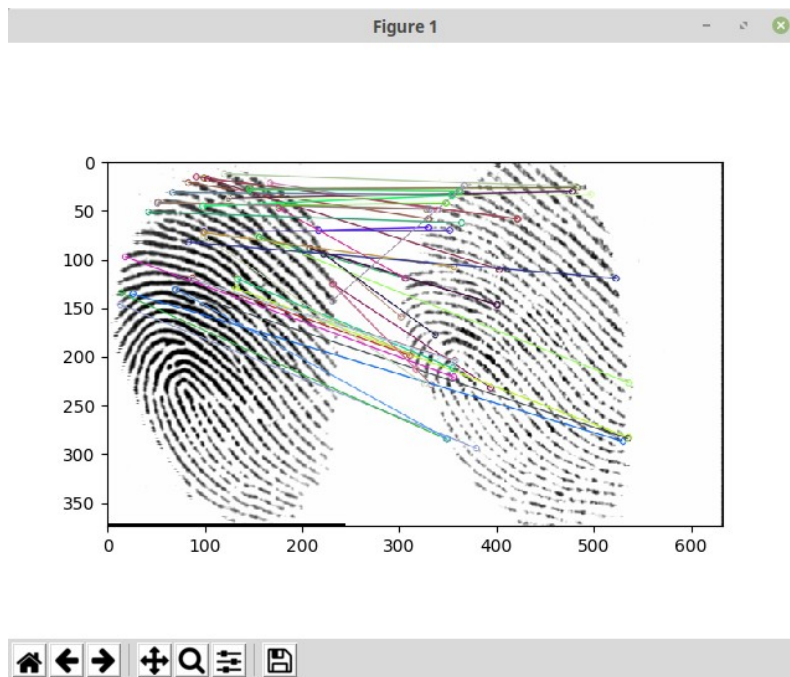
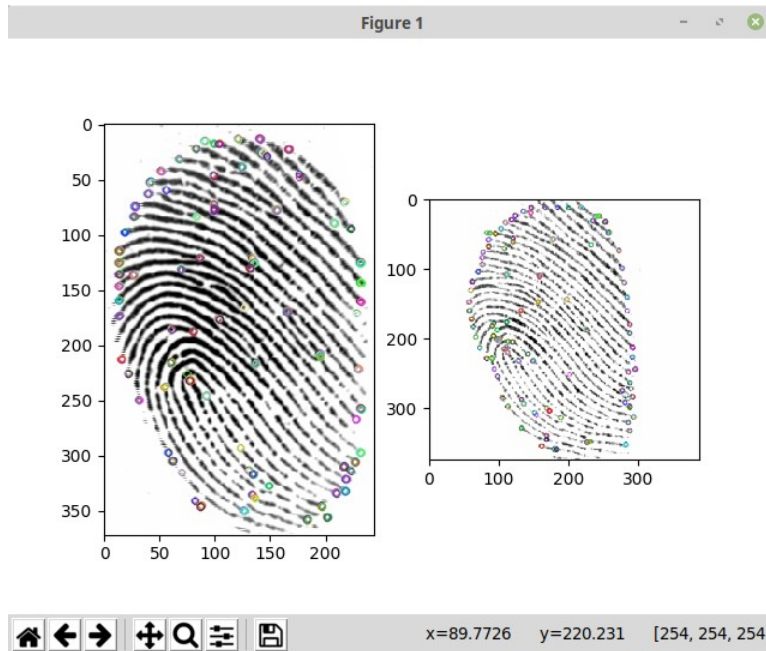
```
>python app.py 101_1.tif 101_2.tif [ENTER]
```

Jika muncul kesalahan diperlukannya modul Tkinter, maka perlu diinstall modul TkInter
linux:

```
> sudo apt-get install python3-tk
```

windows:
pip install tkinter

Result:



```
it20@it20: ~/fp/python-fingerprint-recognition
File Edit View Search Terminal Help
File "app.py", line 91
plt.show()
^
IndentationError: unindent does not match any outer indentation level
(env) it20@it20:~/fp/python-fingerprint-recognition$ python app.py 101_1.tif 101_2.tif
File "app.py", line 91
plt.show()
^
IndentationError: unindent does not match any outer indentation level
(env) it20@it20:~/fp/python-fingerprint-recognition$ python app.py 101_1.tif 101_2.tif
Fingerprint matches.
(env) it20@it20:~/fp/python-fingerprint-recognition$
```