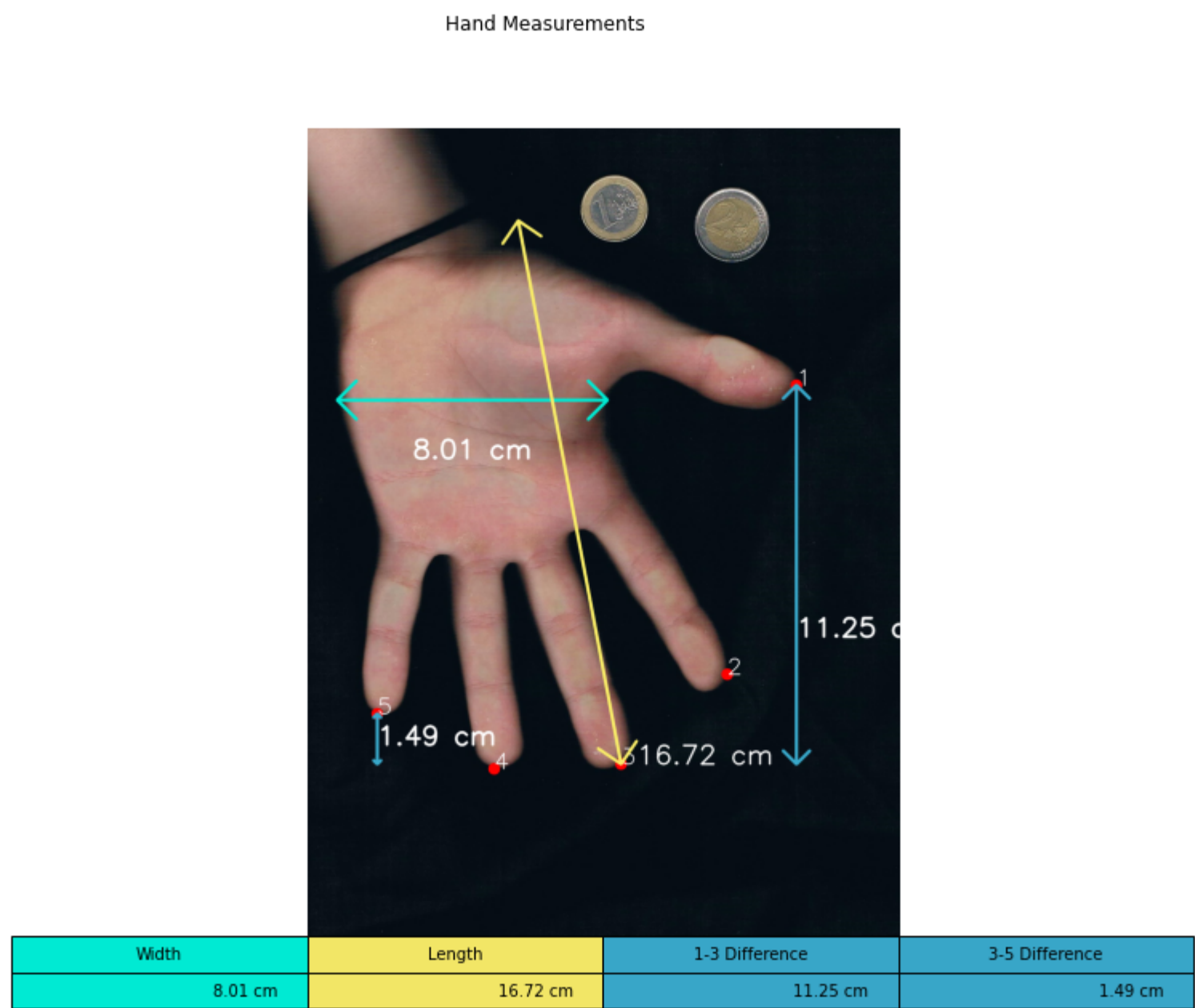


```
In [1]: from CVIP_Main_assignment import Hand_measurement
import os
import matplotlib.pyplot as plt
import pandas as pd
```

Single Image Usage

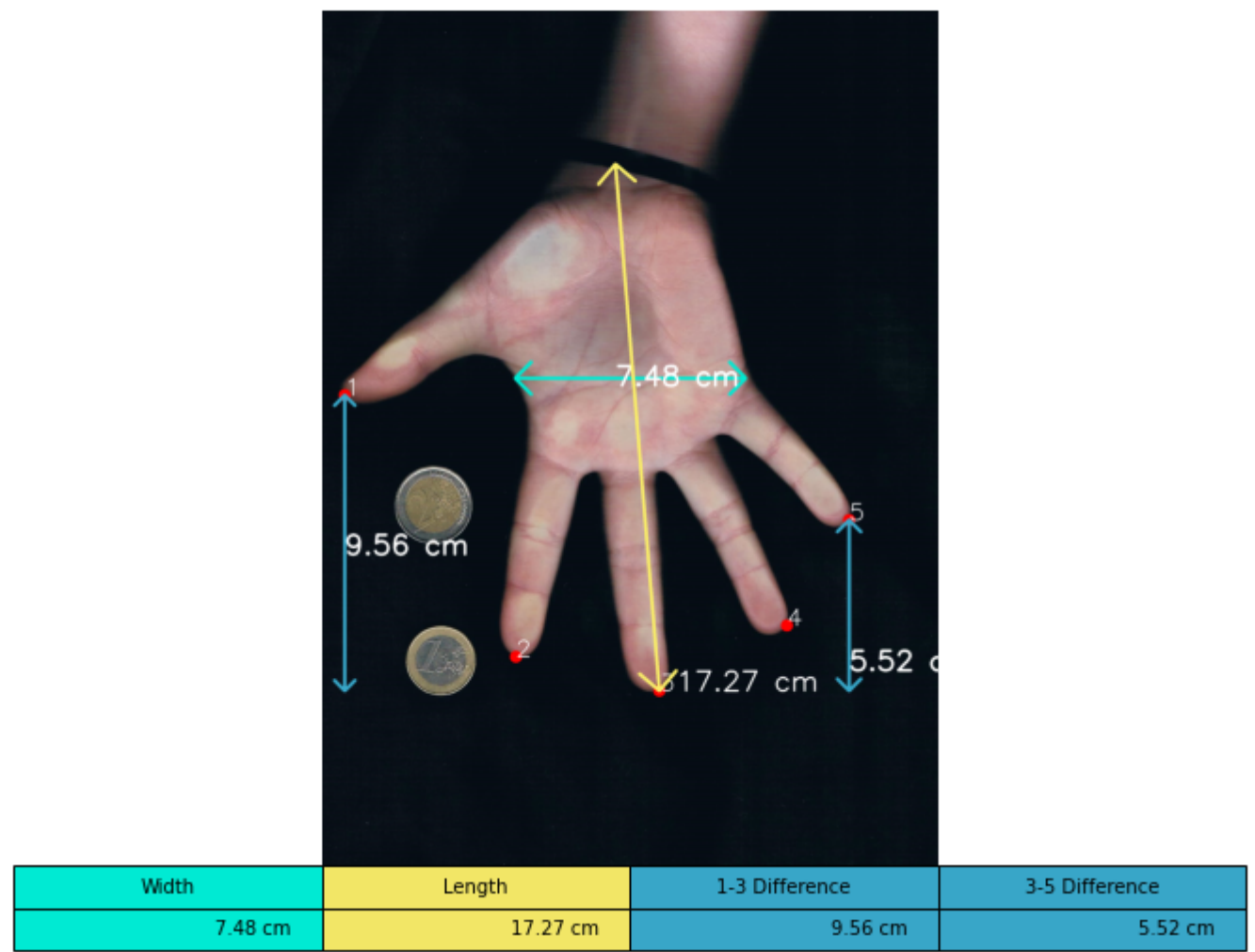
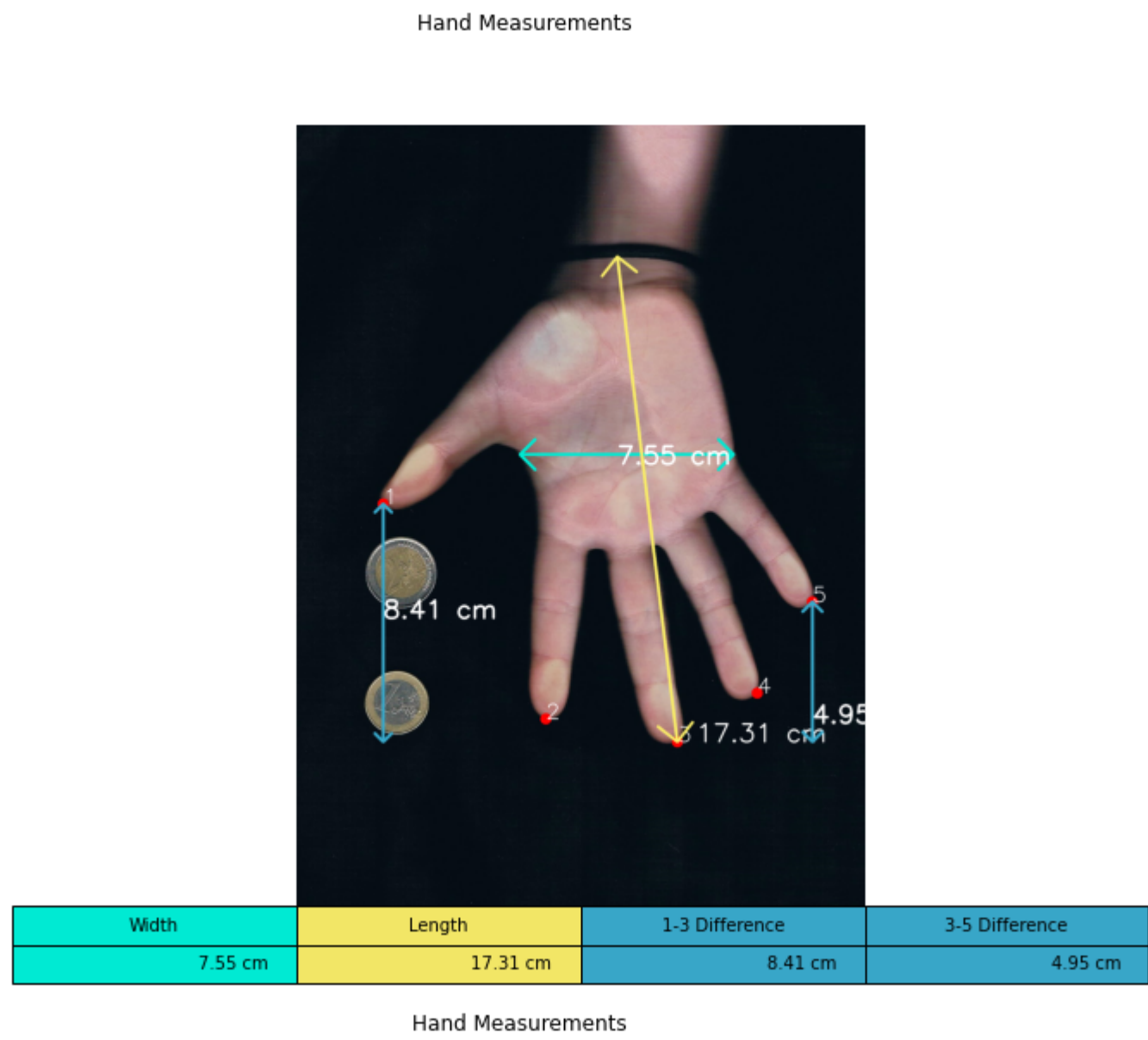
```
In [2]: hand = Hand_measurement("handscans/Image (13).jpg", "left",19,225)
plt.figure(figsize=(10,10))
hand.plot_table()
```



Usage with CSV File

```
In [3]: good_quality=Hand_measurement.quality("handscans/handscans.csv",False)
```

```
In [4]: #Capped number of readings to 2, to increase readability.
for image,side in zip(good_quality["path"][:2],good_quality["hand"][:2]):
    newhand = Hand_measurement(image, side)
    plt.figure(figsize=(9,9))
    newhand.plot_table()
```



Writing Measurements to CSV File without plotting

```
In [5]: #Capped number of readings to 2, to increase readability.
for image,side in zip(good_quality["path"][:2],good_quality["hand"][:2]):
    newhand = Hand_measurement(image, side)
    newhand.csv_measurements("example_measurements.csv")
```

Resulting csv file

```
In [6]: pd.read_csv("example_measurements.csv")
```

Out[6]:

	file_name	hand_width	hand_length	One_to_three_difference	Five_to_three_difference
0	handscans\Image (2).jpg	7.55 cm	17.31 cm	8.41 cm	4.95 cm
1	handscans\Image (3).jpg	7.48 cm	17.27 cm	9.56 cm	5.52 cm