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Y4.S1.WE.SE.01.01

Lab - 03

New images,

Vidura\_1.jpg



Vidura\_2.jpg



## Face Verification

```
[63] verify("images/vidura_1.jpg", "vidura", database, FRmodel)
It's vidura, welcome home!
(0.0, True)

Expected Output:
**It's younes, welcome home!** (0.65939283, True)

Benoit, who broke the aquarium last weekend, has been banned from the house and removed from the database. He stole Kian's ID card and came back to the house to try to present himself as Kian. The front-door camera took a picture of Benoit ("images/camera_2.jpg"). Let's run the verification algorithm to check if benoit can enter. 🚪

[58] verify("images/vidura_1.jpg", "kian", database, FRmodel)
It's not kian, please go away
(0.9852564, False)

Expected Output:
**It's not kian, please go away** (0.86224014, False)
```

## Face recognition

```
[62] output = who_is_it("images/vidura_2.jpg", database, FRmodel)
```

↗ it's vidura, the distance is 0.6896355

**Expected Output:**

```
**it's younes, the distance is 0.659393** (0.65939283, younes)
```

```
#dictionary contains the L2 distance between target image encoding and database embeddings of other images
output[2]
```

↗

```
{'danielle': 0.7524181,
 'younes': 1.0239245,
 'tian': 0.7990582,
 'andrew': 0.79393595,
 'kian': 0.915839,
 'dan': 0.9760365,
 'sebastiano': 0.84050417,
 'bertrand': 0.9907994,
 'kevin': 1.1048398,
 'felix': 1.1498035,
 'benoit': 1.0481205,
 'arnaud': 0.8806907,
 'vidura': 0.6896355}
```