

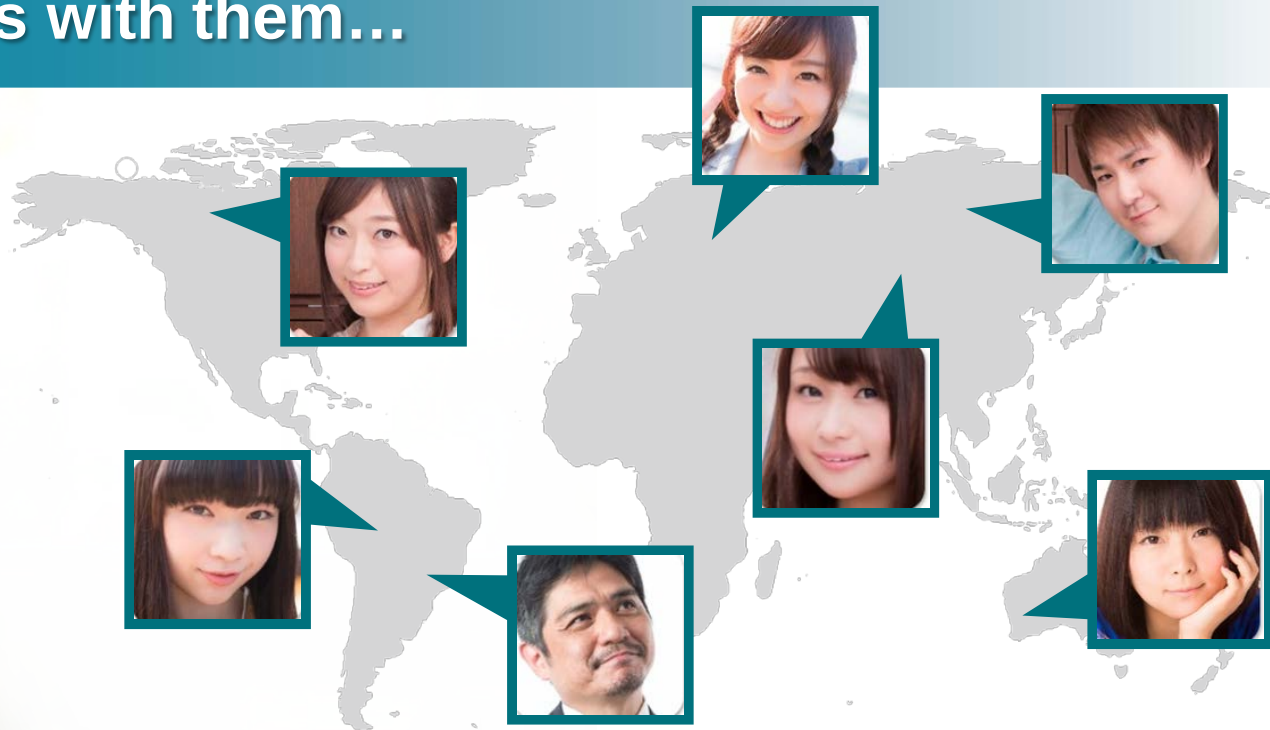
QNAP

Photo Station Facial Recognition

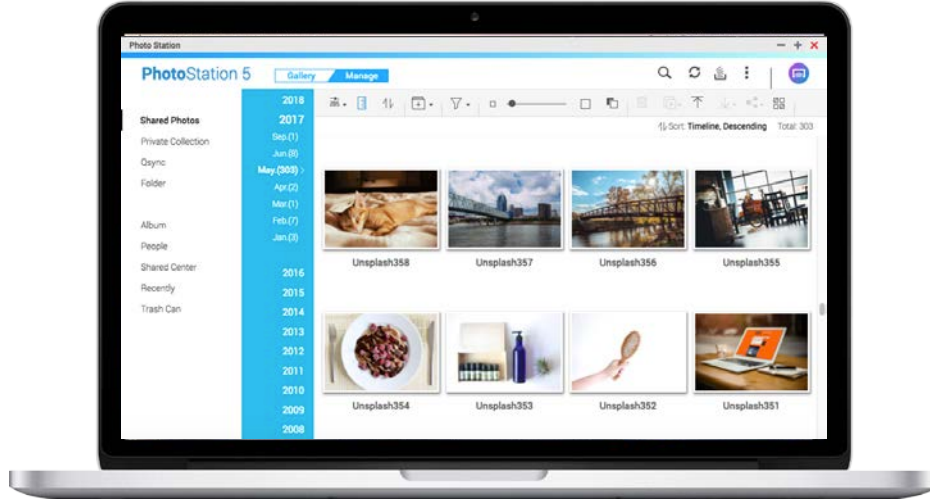
Let photos evoke precious memories of people



Old friends are all over the world. I miss the old days with them...



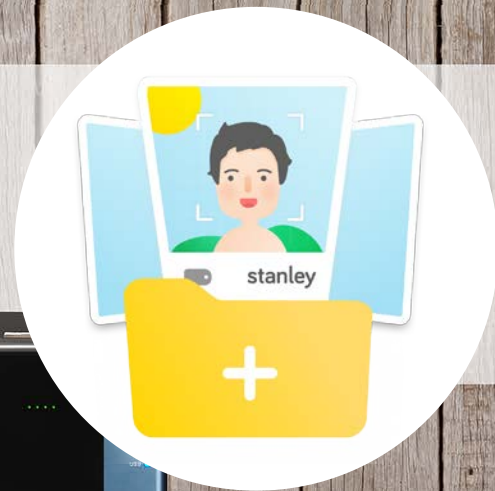
How to find my friends in thousands of photos?





You need Photo Station Facial Recognition

Note: This feature is for x86 models





**Great! Can Photo Station
find all my memories with
friends?**



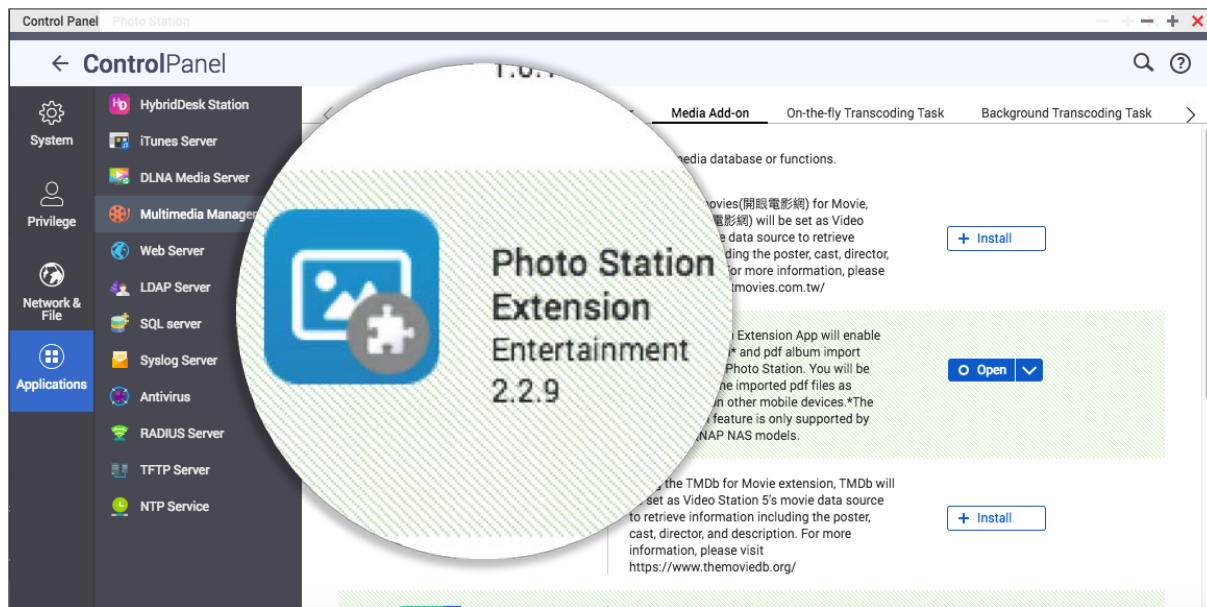
**Yes, keeping precious
memories alive is the first
priority for Photo Station.**



Three Steps to Start

01

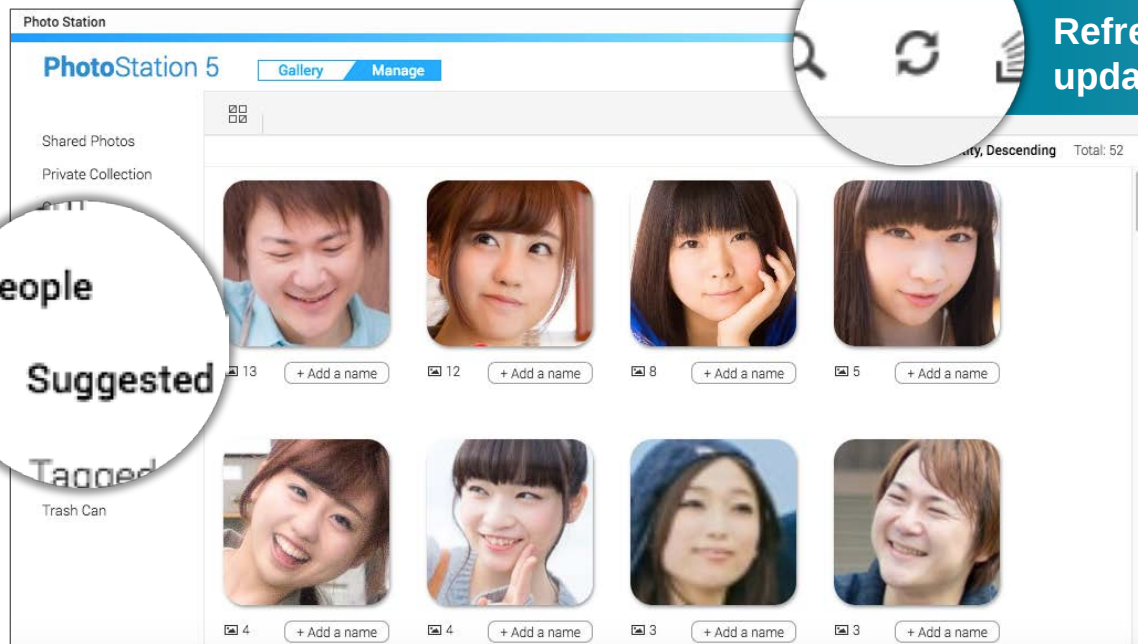
Install Photo Station Extension 2.2.9



Three Steps to Start

02

Wait for faces to be recognized

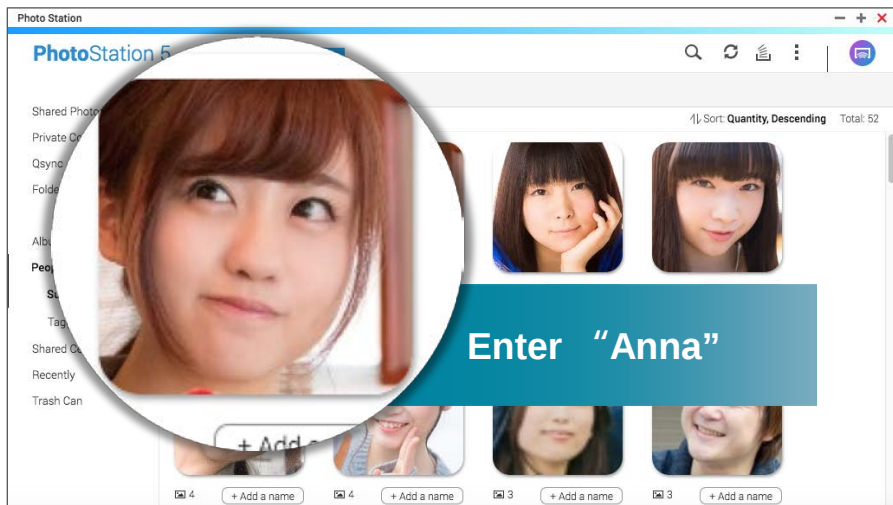


Recognized results

Three Steps to Start

03

Add a name to the face and enjoy your memories

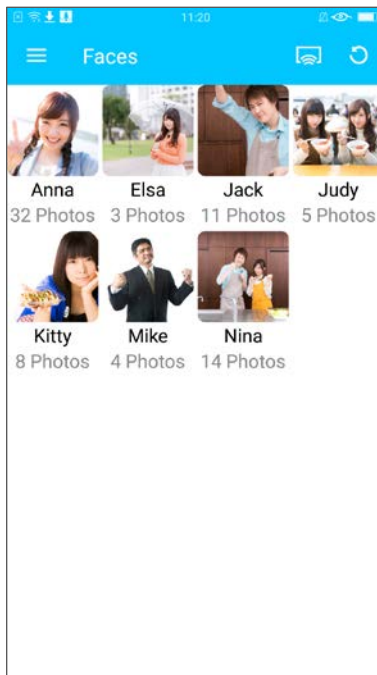
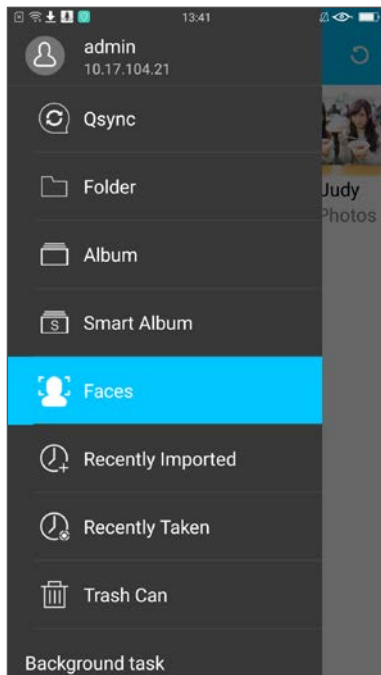


View People Albums



The memory of Anna rose in front
on my eyes

Qphoto: View Photos Right Away



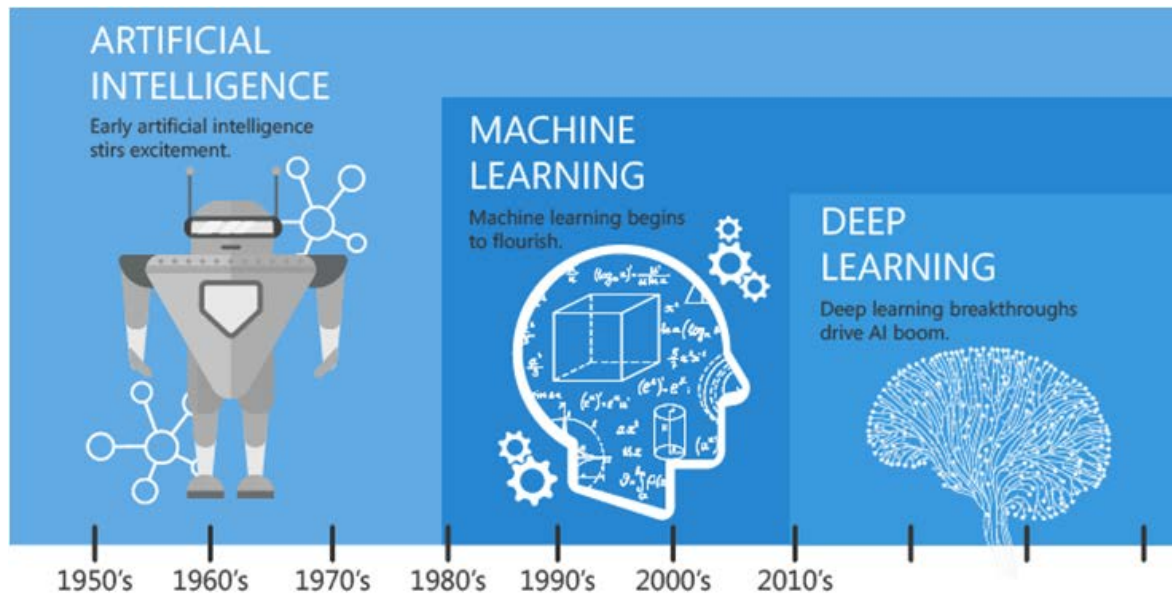


QNAP Facial Recognition Explained by Senior R&D Engineer

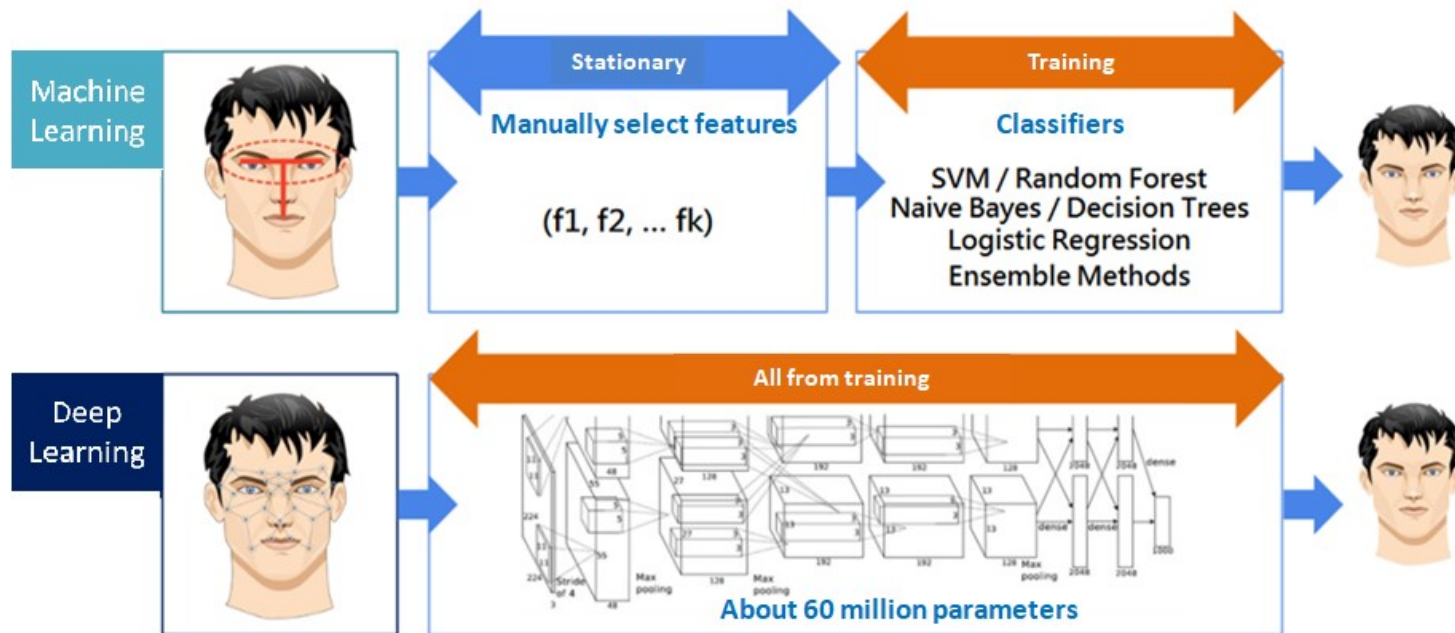


Why Deep Learning

AI's evolution history



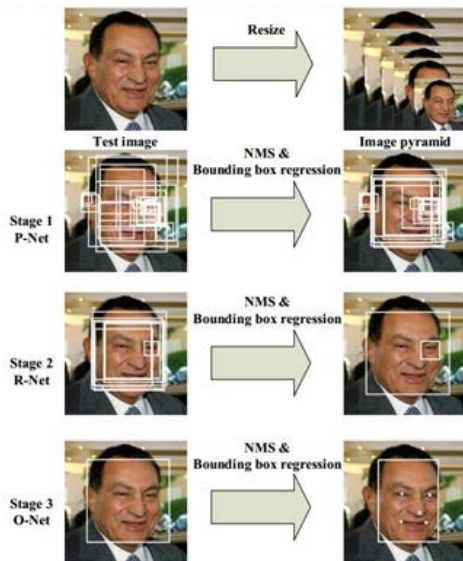
Why Deep Learning



First Step: Face Detection

Cascade structure

Proposal net --> Refine net --> Output net



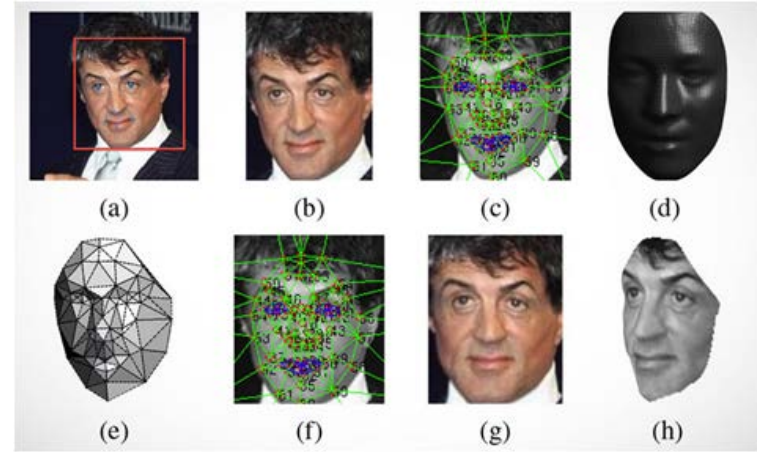
Face Alignment

•Difficulties

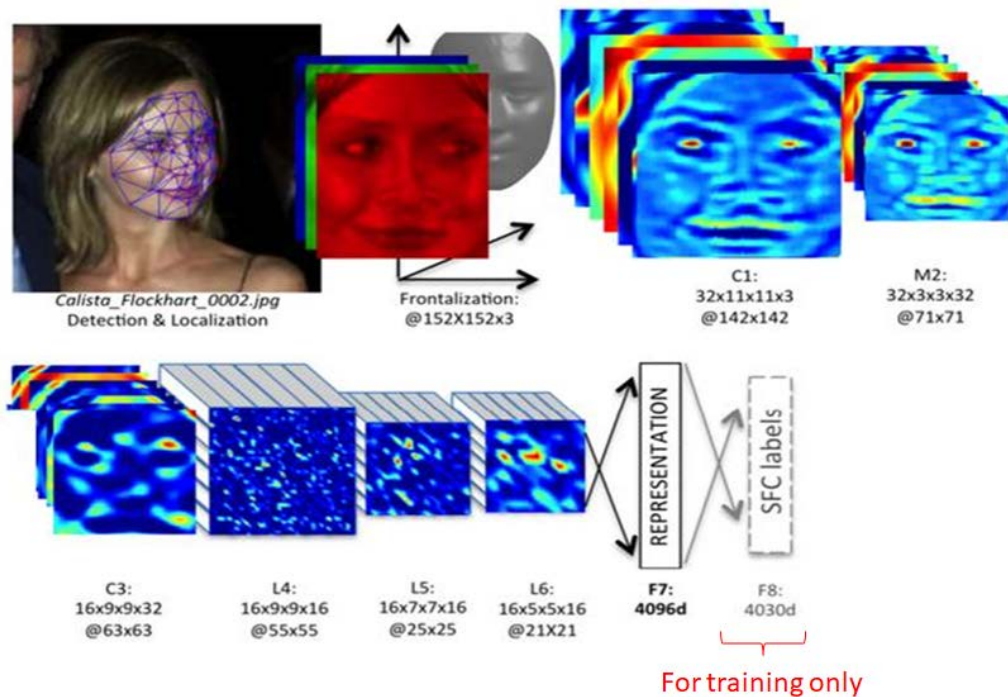
- Pose difference
- Non-rigid expression

•3D Alignment

- Generic 3D face model
- Affine projection
- Model adjustment
- Warping to frontal face

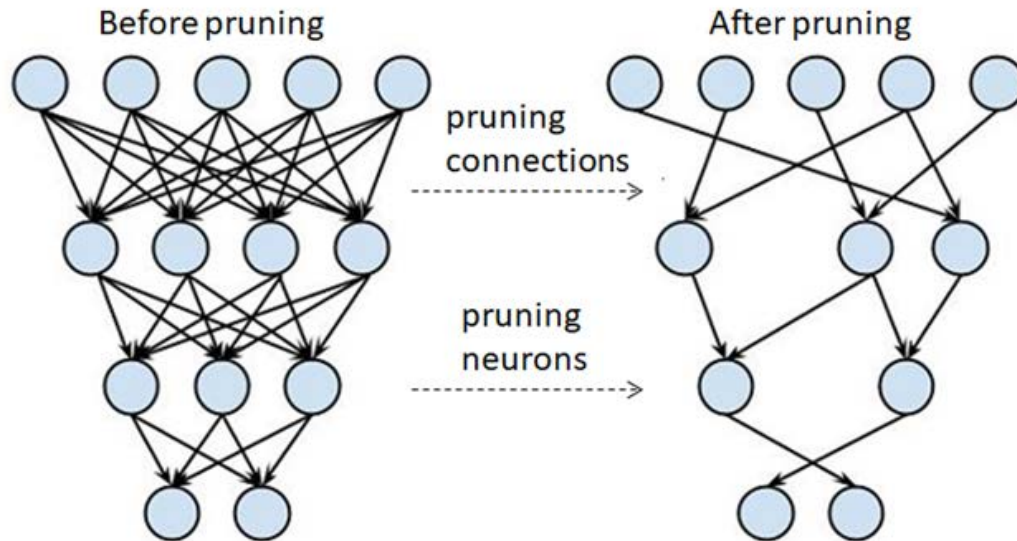


Representation

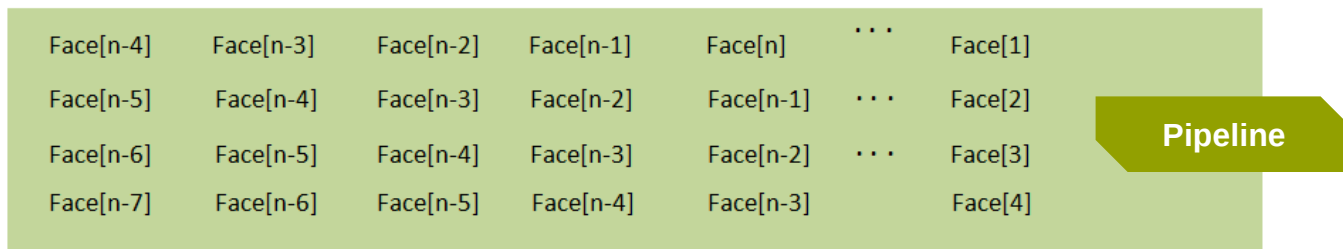
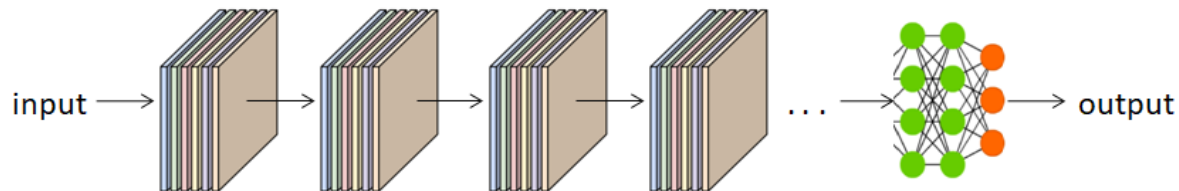
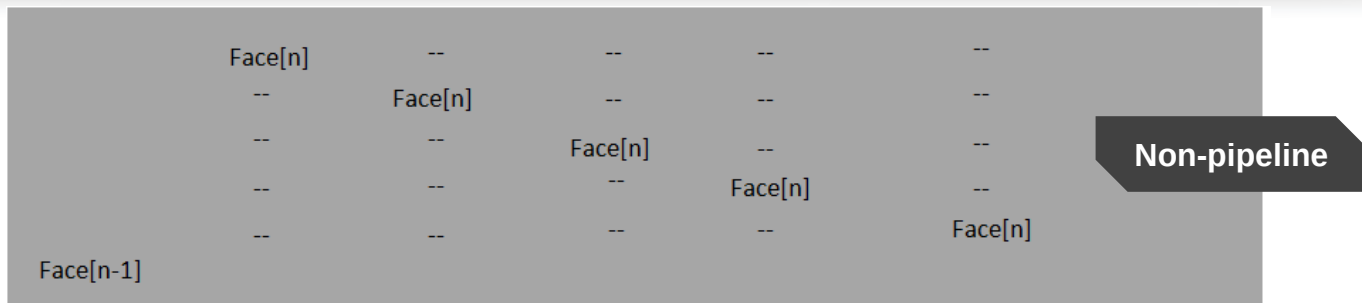


Optimize Recognition Speed

Prune connections
Prune neurons



Pipeline Inference



Last Step: Face Grouping

- Calculate face distances
- Put similar faces in a group

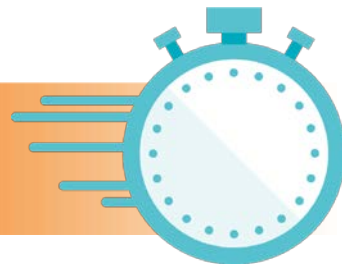


Recognizing Speed



Recognize 1000 photos

Only 8 minutes



Test environment: QNAP TS-253B, QTS 4.3.4.0486, Photo Station 5.6.2
Steps: Designated a folder with 1000 photos as facial recognition folder, then wait for the system to recognize



QNAP Photo Station Has More Features



Recommend for Tag Name



QNAP
Photo Station



Synology
Moments

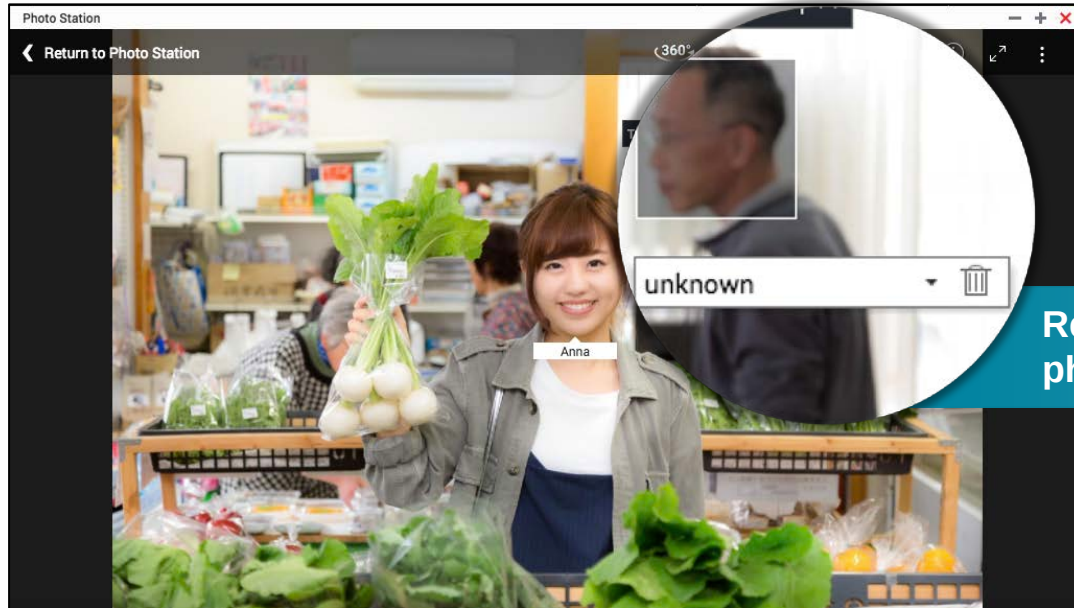


No this
feature

Remove Strangers



Qnap
Photo Station



Synology
Moments



No this
feature

If you miss her, take actions now

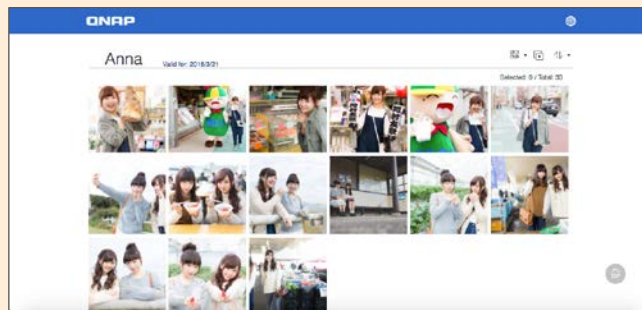


Anna, I saw our old photos and I miss you.



What photos? Let me see.

Receive sharing link and download photos



Share via
Photo Station



Share via
Qphoto



QNAP

Demo



QNAP

QNAP facial recognition is your best choice

