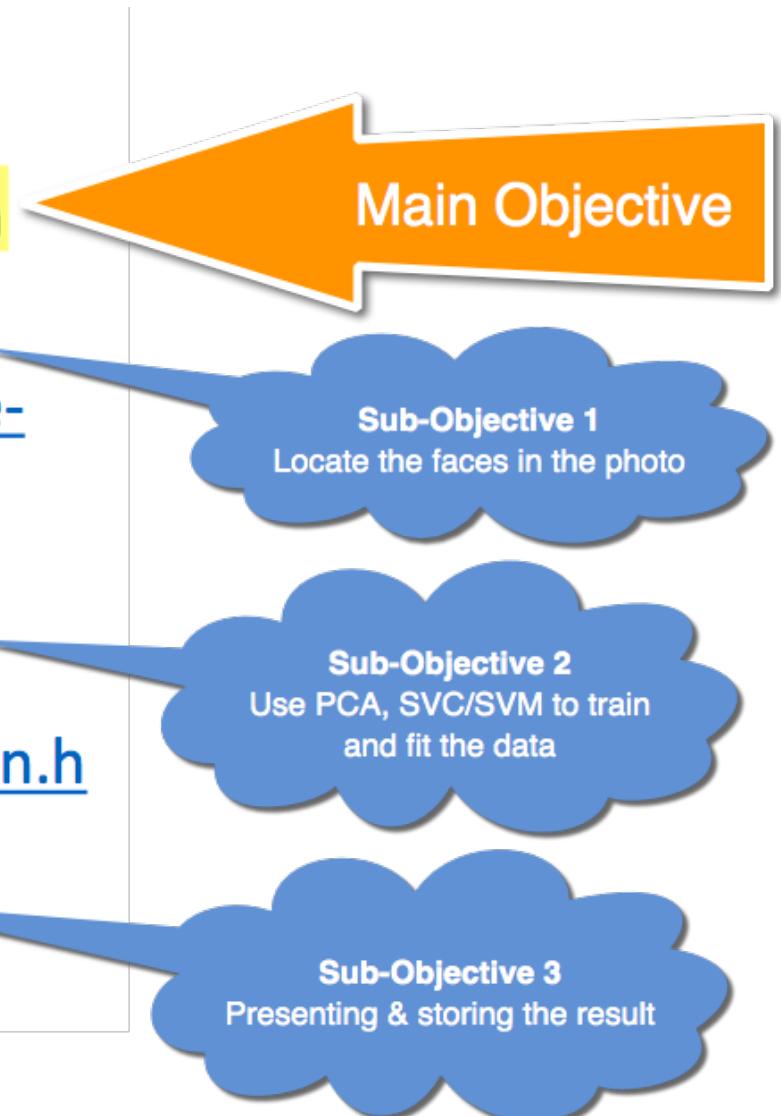


Topic 1: Personal Photo Album Mining

Vo, Doan Quoc Sy (Steven) – 150201133@svuca.edu

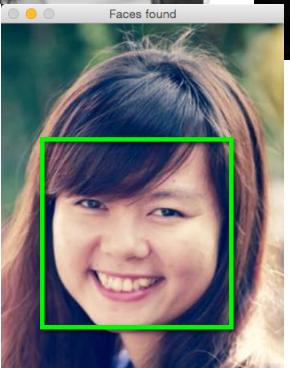
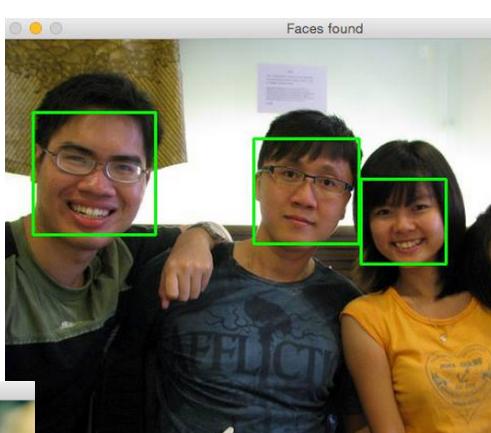
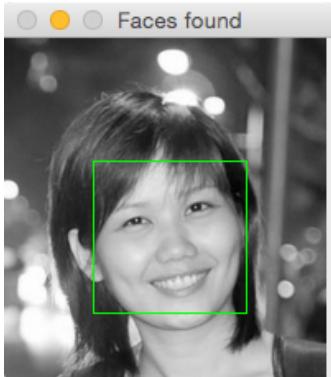
Topic-1: Personal Photo Album Mining *

- Given the personal photo album folder, classify all the faces in the pictures
- Use the face detection function from OpenCV to locate faces first. Sample code: <https://realpython.com/blog/python/face-recognition-with-python/>
 - Alternatives: <https://github.com/bytewfish/facerec> and <https://www.youtube.com/watch?v=fRiCOxJtsQQ>
- Apply face recognition functions from sk-learn sample code: http://scikit-learn.org/stable/auto_examples/applications/face_recognition.html
- Build a simple database (or spreadsheet file) to store the classification results



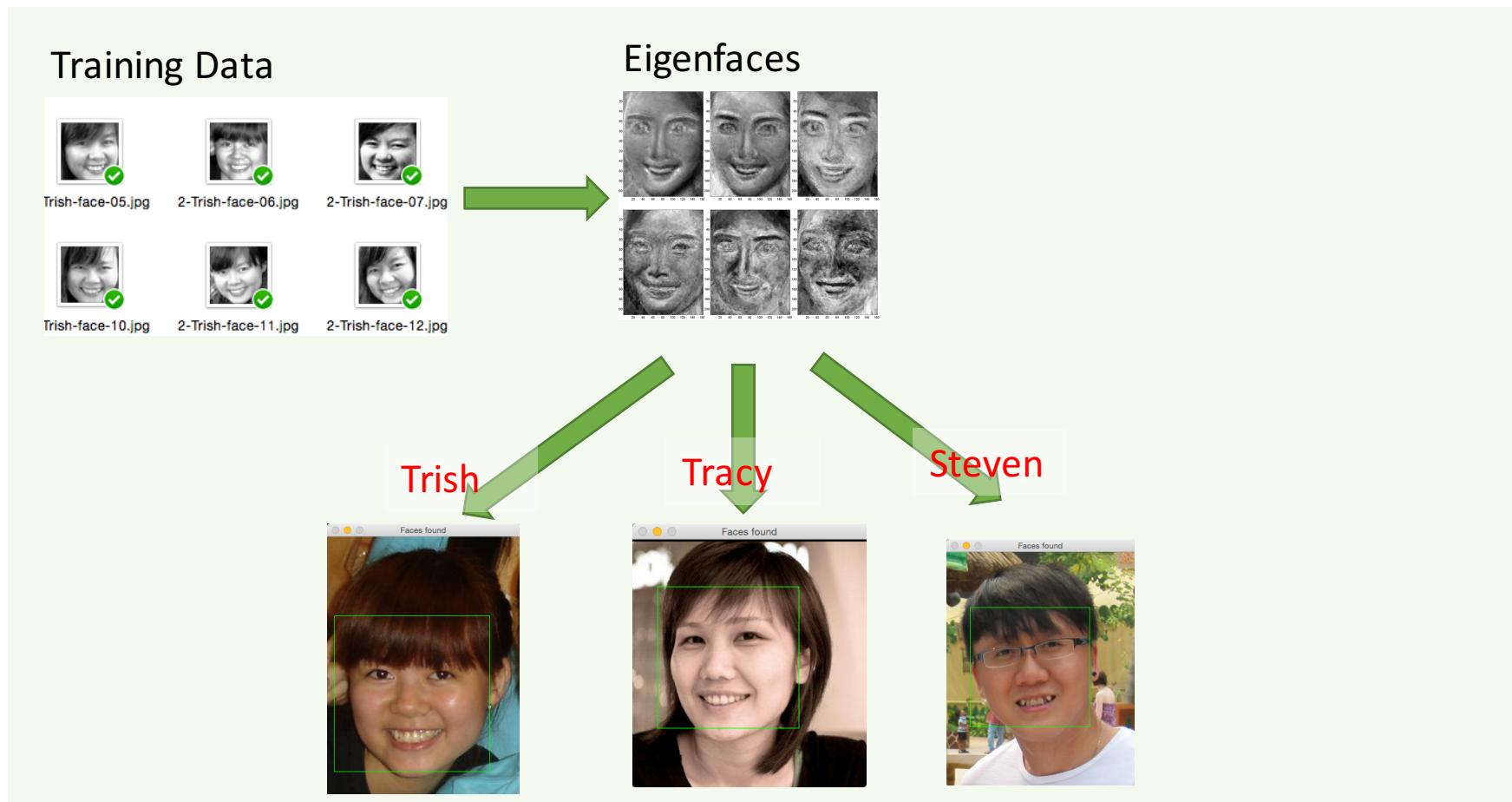
Obj-1: Locate The Face

- Locate the faces in photos – using OpenCV



Obj2 – Recognize the face

- The program should go through these 5 steps before it can recognize a face properly
 - Training Data
 - Test Data
 - PCA
 - Training
 - Validation



Obj3 – Presenting and Storing Data

- The classification result will be stored into a database, which can be implemented by
 - File system (txt, dat, etc.)
 - Spreadsheet (xlsx, csv, etc.)
 - “Real-world” database system (mongo, redis, mysql, etc.)

Project Repository

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10 commits 1 branch 0 releases 1 contributor

Branch: master cs596-029-topic-1-face-recognition / +

pca in progress

stevenvo authored 2 hours ago latest commit e46e871390

data	done image processing	15 hours ago
faces/fw_home	init	2 days ago
references	remove facebook since its API does not allow crawling photos	15 hours ago
src	pca in progress	2 hours ago
.gitignore	add facebook-sdk	a day ago
project-logs.docx	done image processing	15 hours ago

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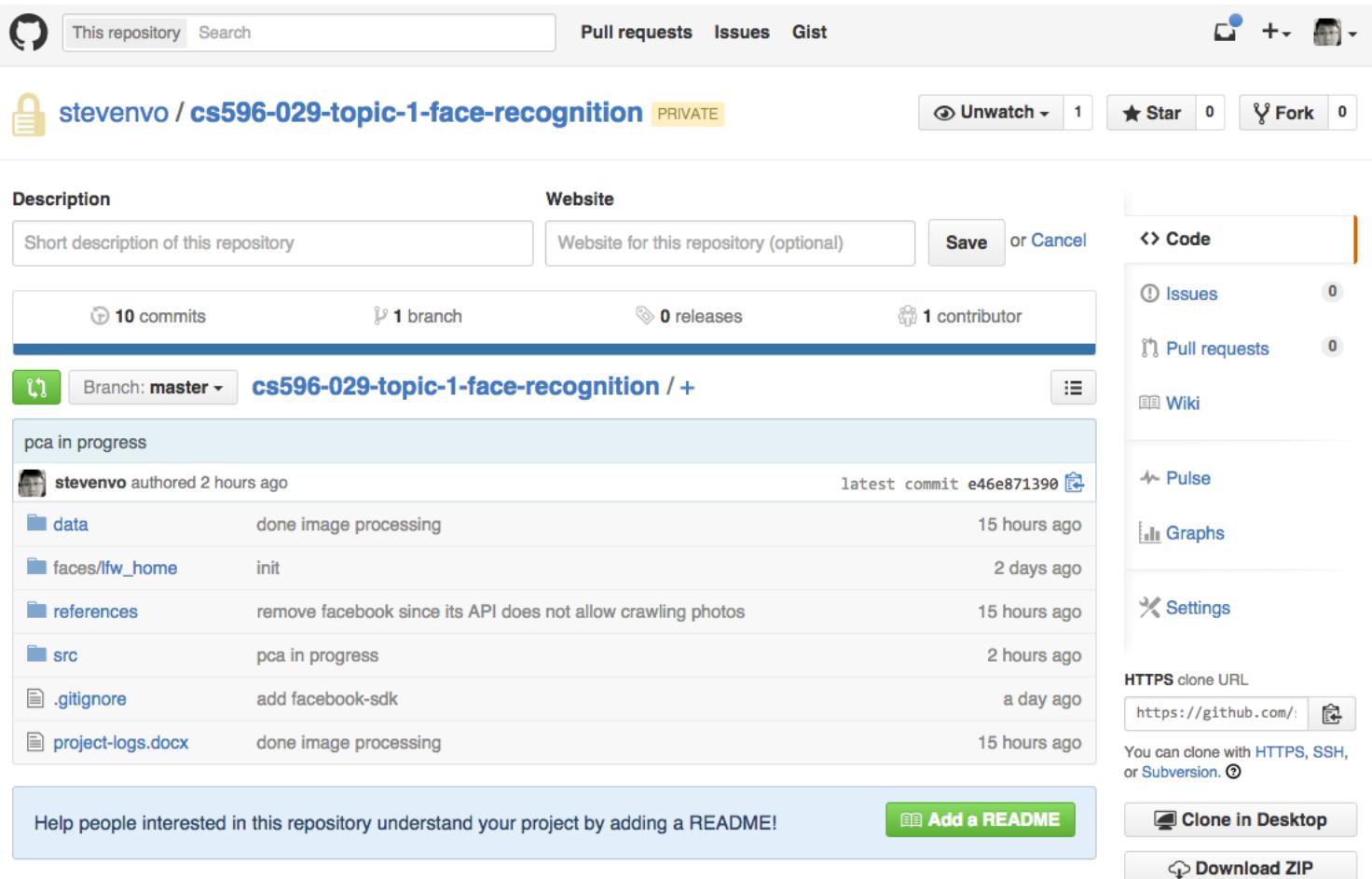
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