

DSP LAB - PROJECT

SELFIE - AID APP

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# SELFIE-AID APP

01

PROJECT INTRODUCTION

02

OBJECTIVES

03

FUNCTIONS

04

FUTURE IDEAS

01

# PROJECT INTRODUCTION

We aim to design a simple selfie-aid APP that can provide fun effects while recording videos or taking snapshots.

FACEU



SNAPCHAT



INSTAGRAM



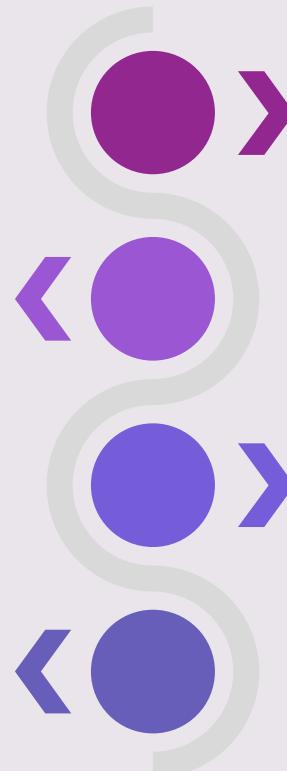
## 02 OBJECTIVES

### Video - Filter

- Choose different filters
- Add and delete filters at any time

### Additional function: Photo

- Filter the image
- Drawing
- Add stickers
- Face recognition
- Add cartoon effects based on face recognition



### Design a Graphical user interface

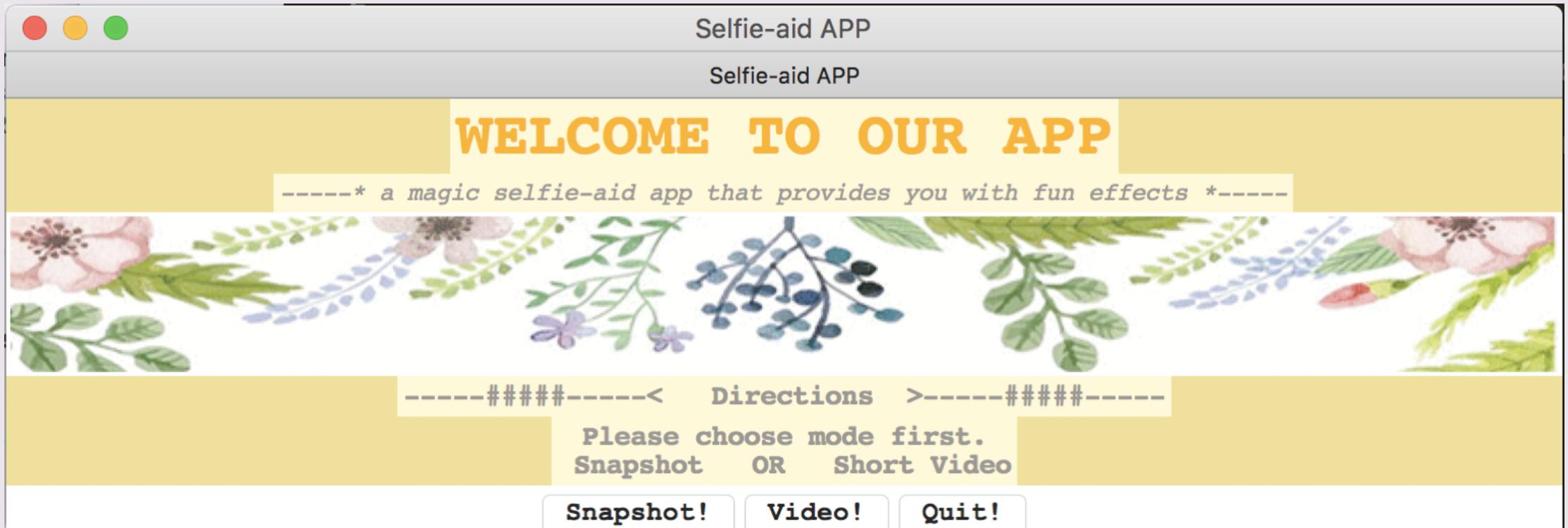
- Simple and clear
- Instructions to the user
- Colorful

### Video - Real time Face and eyes recognition

- Real-time face and eyes recognition
- Mark the face and eyes
- Add stickers based on real-time face and eyes recognition

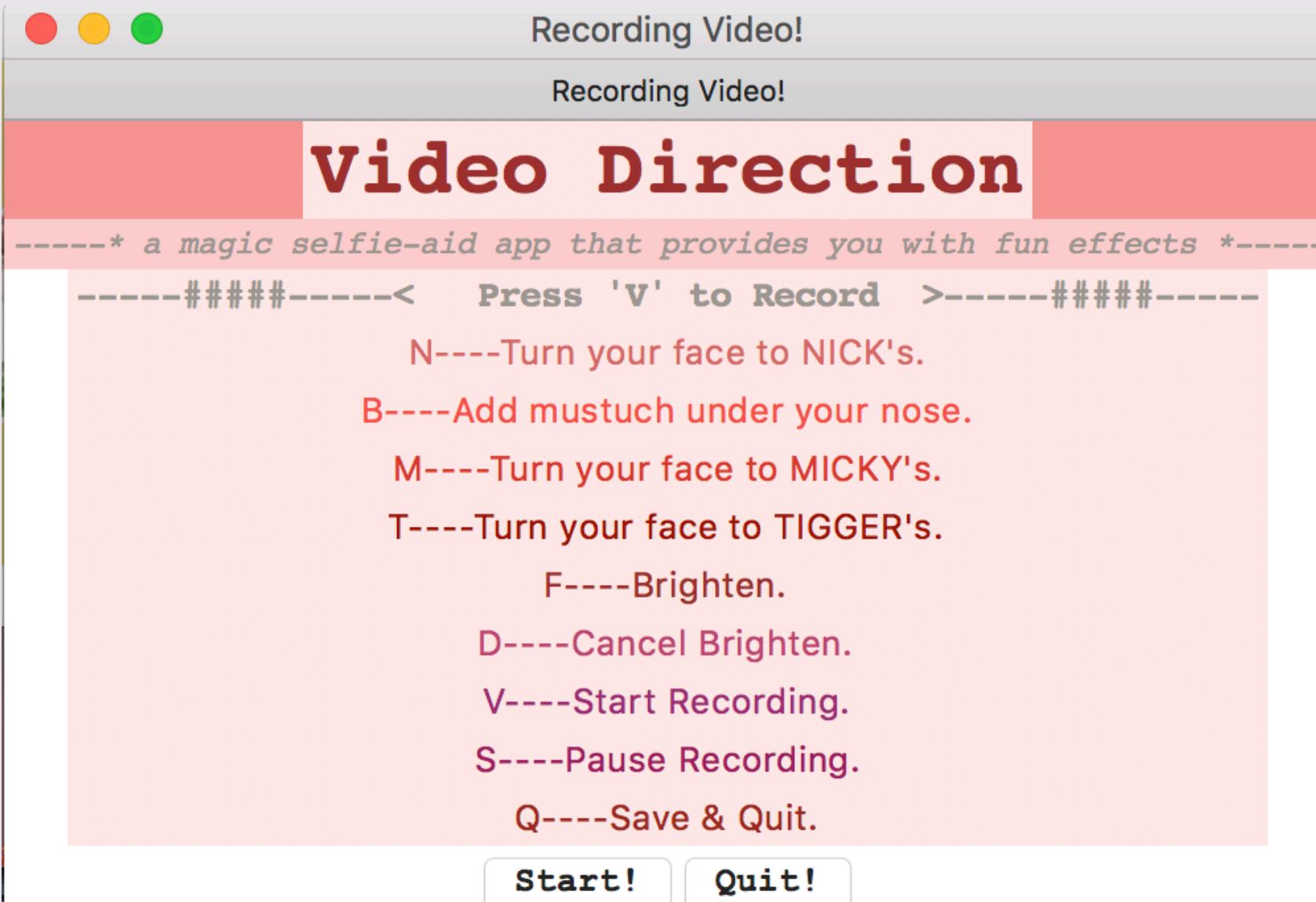
03

# FUNCTION - Graphical user interface



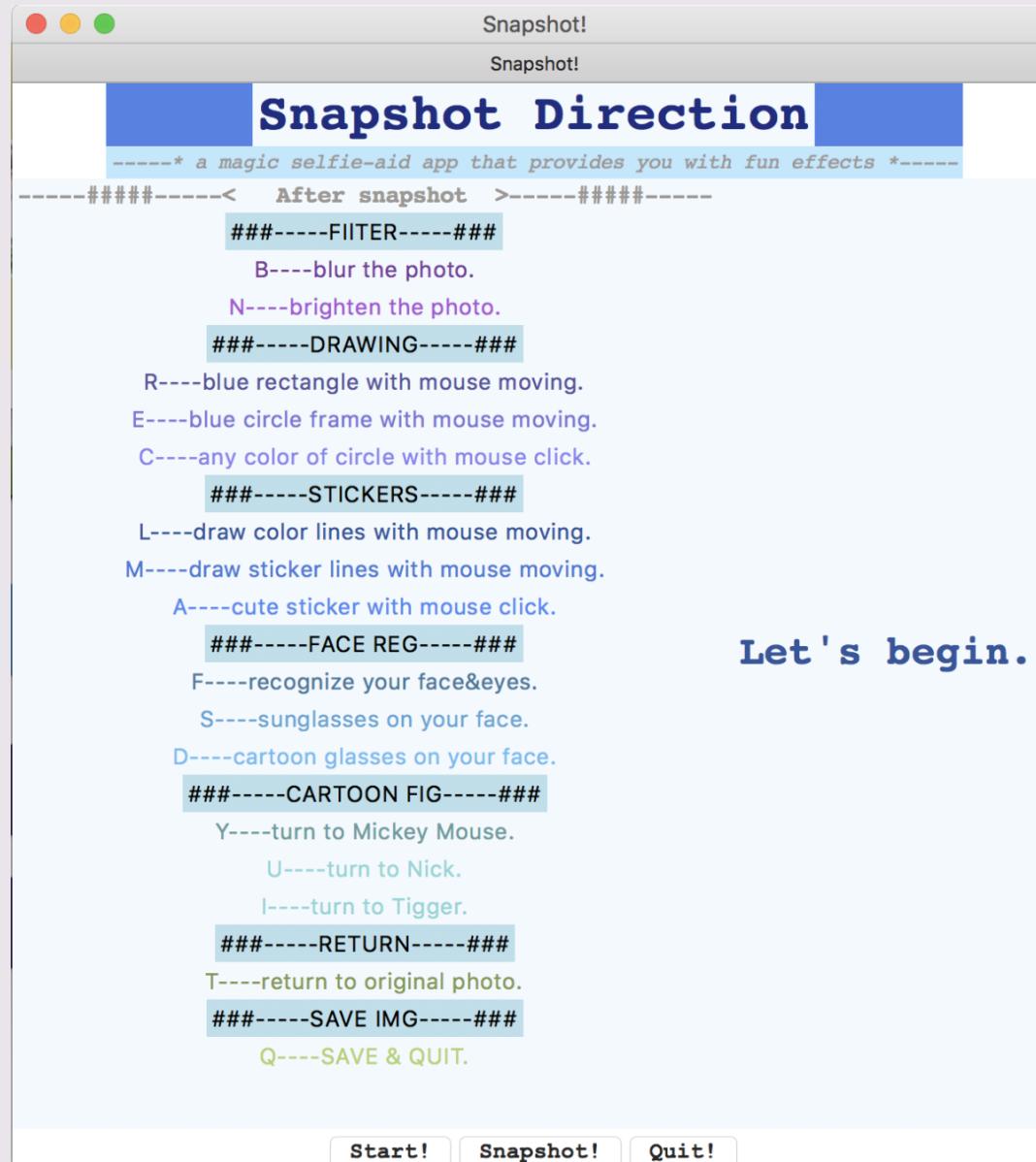
03

# FUNCTION - Graphical user interface



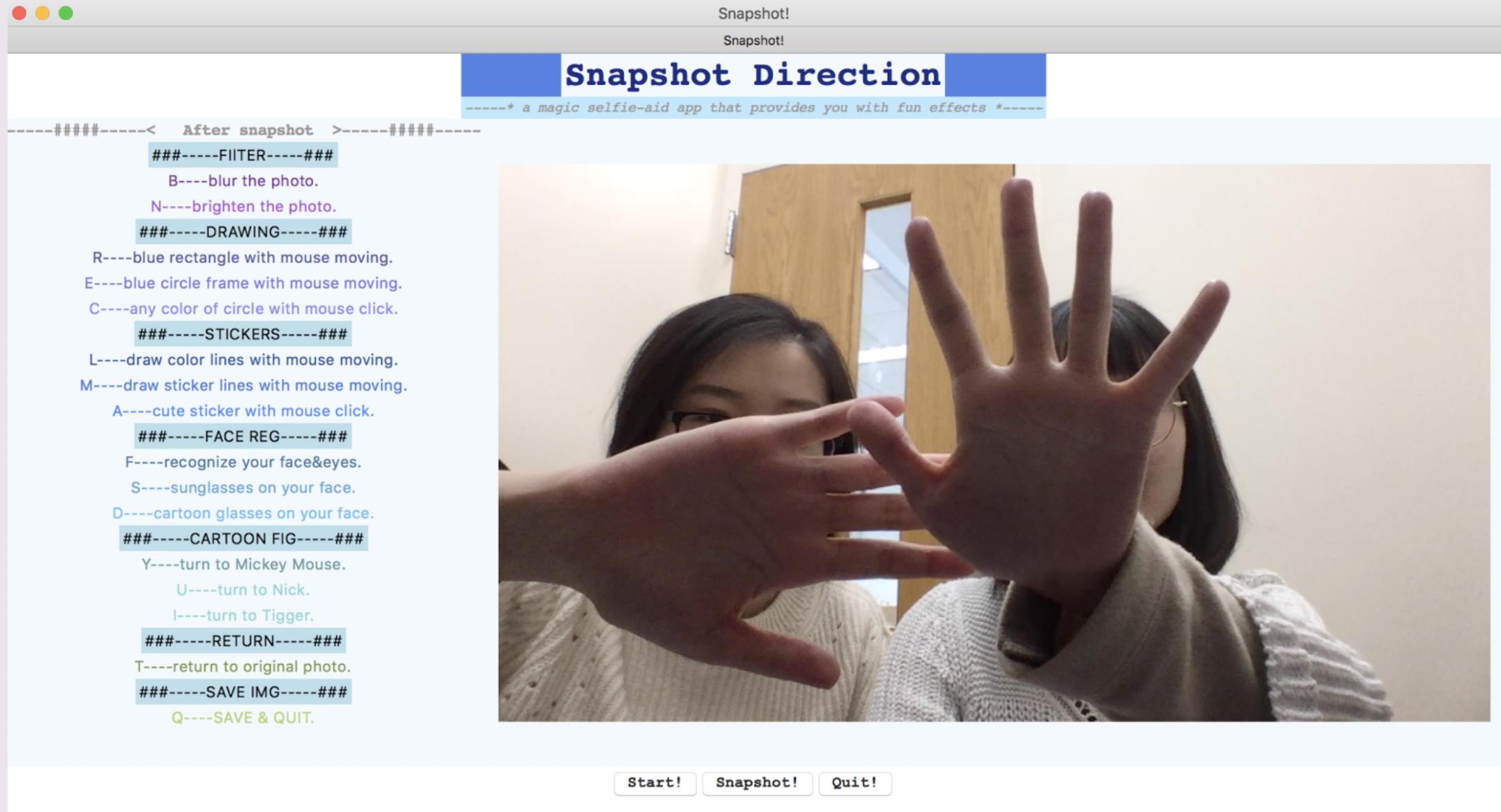
03

# FUNCTION - Graphical user interface



# 03

# FUNCTION - Graphical user interface



## 03 FUNCTION - Video



## 03 FUNCTION - Photo

- Filters



Original photo



Blur the photo



Brighten the photo

## 03 FUNCTION - Photo

- Drawing and Stickers



### Drawing:

- Draw light blue rectangle with mouse moving
- Draw blue circle frame with mouse moving
- Draw any color of circle with mouse click
- Draw colorful line with mouse moving

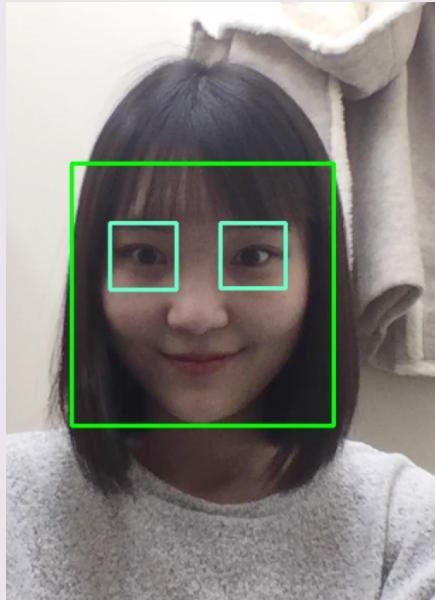
### Stickers:

- Add sticker line with mouse moving
- Add cute sticker with mouse click

## 03 FUNCTION - Photo

- Face and eyes recognition

- Recognize your face & eyes
- Mark with rectangle
- Add transparent sunglasses on your face.
- Add transparent cartoon eyes on your eyes



## 03 FUNCTION - Photo

- Cartoon effects based on face recognition
- Turn to Mickey mouse based on face recognition
- Turn to Tigger based on face recognition
- Turn to Nick based on face recognition



## 04 Future Ideas

-- more real-time video

01

*Change effects automatically with your movement*

02

*Same effects as Photos*

DEMO