Required Packages and Installation Guide for Fingertip Color Detection with TTS

# 1. Python Packages Required

The following Python libraries are required for the fingertip color detection system with text-to-speech:

* - opencv-python
* - mediapipe
* - pandas
* - imutils
* - gTTS
* - pygame
* - numpy

# 2. Installation Commands

You can install all the required packages using the following pip commands:

pip install opencv-python

pip install mediapipe

pip install pandas

pip install imutils

pip install gTTS

pip install pygame

pip install numpy

# 3. Additional Notes

- Make sure your Python version is 3.8 or above.  
- If you encounter issues with pygame or gTTS, try running the script outside of any virtual environment.  
- Ensure your CSV file 'Updated\_Fixed\_RGB\_Colors.csv' is present in the same directory as your Python script.  
- The CSV file must include columns: 'Red', 'Green', 'Blue', and 'Main Color'.  
- Webcam access is required for this script.