

User Guidance Of QuickFace

Group 26:

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File Structure

{ROOT_DIR}	
{ROOT_DIR}/QuickFace-Client	
{ROOT_DIR}/QuickFace-Client/QuickFace	<i>Source code of client-end</i>
{ROOT_DIR}/QuickFace-Client/QuickFace Installer.exe	<i>Installer for client-end</i>
{ROOT_DIR}/QuickFace-Server	
{ROOT_DIR}/QuickFace-Server/QuickFace	<i>Source code of server-end</i>
{ROOT_DIR}/QuickFace-Server/build	<i>MakeFile and .o files</i>
{ROOT_DIR}/QuickFace-Server/install	<i>Installation Directory</i>

Requiring Environment

- **For client-end:**
Windows 10 (x86)
- **For Server-end:**
Ubuntu (>=14.04)
gcc 5
g++ 5,
boost (>=1.54.0)
eigen (>=3.2.0)
opencv (>=2.4.8)

Installation Guide

- **For client-end:**
 - ✧ Double click the installation package “QuickFace Install.exe”
 - ✧ Follow the guide of the Installation package and finish the installing
- **For Server-end:**
 - ✧ Install the requiring environment by the following instructions:
sudo add-apt-repository ppa:ubuntu-toolchain-r/test
sudo apt-get update
sudo apt-get install gcc-5 g++-5 libboost-all-dev libeigen3-dev libopencv-dev opencv-data
 - ✧ Delete all the files under 'build' folder except 'face_landmarks_model_rcr_68.bin'.
 - ✧ Open a terminal in folder 'build'.
 - ✧ Type 'cmake -DCMAKE_INSTALL_PREFIX=../install -DCMAKE_BUILD_TYPE=Release -DCMAKE_C_COMPILER=gcc-5 -DCMAKE_CXX_COMPILER=g++-5 DOpenCV_haarcascades_DIR=/usr/share/opencv/haarcascades/ ../QuickFace/'.
 - ✧ Type 'make install'.
 - ✧ The server-end application has been installed to {ROOT_DIR}/install

Use-Method

- Start the server-end by typing these instructions in the terminal:
 - ✧ `cd {ROOT_DIR}/QuickFace-Server/install/bin`
 - ✧ `./QuickFace`
- Double click the QuickFace.exe in the root of the installation path.
- Click the “Start Camera” button to open the camera and establish the connection with the server.
- Click the “Change Mode” button to change the background of 3D model.
- Click the “Save Object” button to save the 3D model to your device.
- Click the “Quit” button to quit.