User Guidance

Of QuickFace

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File Structure

{ROOT_DIR}
{ROOT_DIR}/QuickFace-Client
{ROOT_DIR}/QuickFace-Client/QuickFace   *Source code of client-end*
{ROOT_DIR}/QuickFace-Client/QuickFace Installer.exe   *Installer for client-end*
{ROOT_DIR}/QuickFace-Server   *Source code of server-end*

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 Installer.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

How to Use?

➢ 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 connec tion 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.