

OpenCV Project

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/*-----Created by – Doman Sarkar-----  
-----Please install OpenCV before running the program-----  
-----This program is made in C++ -----*/
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#OpenCV-project

This program uses OpenCV to display an rotated image (based on user input)
user can input:

1=> for 0° rotation

2=> for 90° clockwise rotation

3=> for 90° anti-clockwise rotation

4=> for 180° rotation

#Instructions

=> Before running the program you must change the image path from
“C:\Graphic-Era.png” to anything of your choice.

=>If you don't want to make changes to the code simply place the “Graphic-
Era.png” inside “C” drive.

#Requirements

1.1-Hardware Requirements

1.1.1-RAM: 1GB (Minimum)

1.1.2-HDD: 2GB (Minimum)

1.2-Software Requirements

1.2.1-OS: Windows 10

1.2.2-OpenCV 4.5.1 or latest

1.2.3-Visual Studio Code

1.2.4-CMake for installing and configuring OpenCV

1.2.5-Visual Studio Build Tools

#Modules

`Imread` – inbuilt OpenCv function to read an image. Pass the image path as parameter.

`Rotate` – rotates image, parameters are (image-object, image-object, flag). Flag can be of three types `ROTATE_90_CLOCKWISE`, `ROTATE_90_COUNTERCLOCKWISE` or `ROTATE_180`

`namedWindow` – Creates a window with a name, parameters passed are (name-of-the-window, flag). The flag can be `WINDOW_NORMAL`, `WINDOW_FREERATIO` or `WINDOW_GUI_NORMAL`

`imshow` – assigns image to the window. Parameter are (name-of-the-window, image-object).

`waitKey` – waits for the user to press a key.

`destroyWindow` – destroys the window. Parameter passed is the name-of-the-window.

#Error handling

\$ “Error loading image” – This error occurs if image is not loaded into the matrix properly.

\$ “enter a valid option” – This error happens due to an invalid number entered by the user (from other than 1 to 4).