OpenCV with Python

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OpenCV Introduction

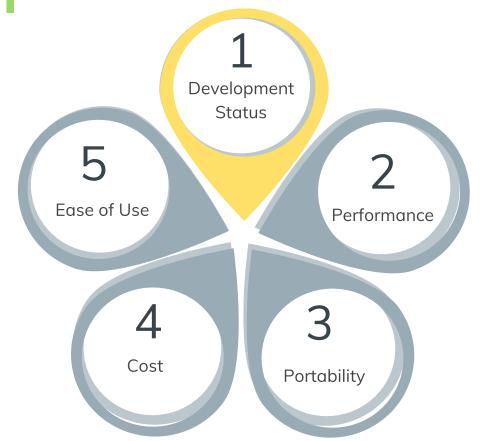


- What is OpenCV?
- What are its origins?







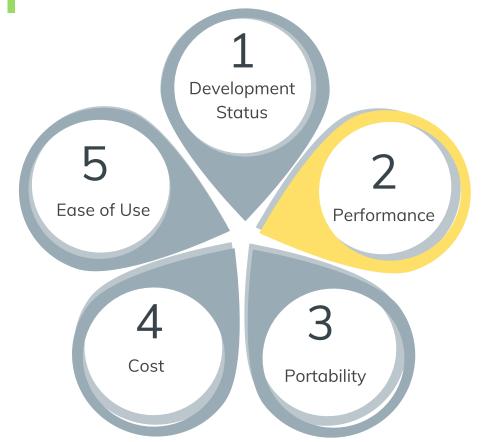


Python: Initial public release in February 1991, and latest 3.6.3 was released in October 2017.

OpenCV: Initial public release on June 2000 and latest version "3.3.1" was released on October 2017. 47K active users and 15 million + downloads.

Matlab: Initial public release in 1984 and latest version "R2017b" was released on September 2017. 2 million users

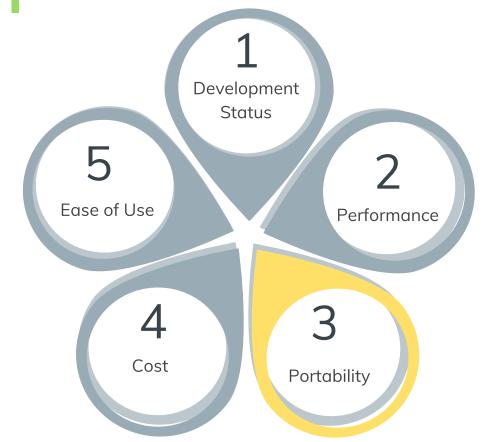




Python: Python-OpenCV requires very less memory and are almost as robust as C++...

Matlab: OpenCV programs written in Matlab have almost same execution time but take more memory than Python. Because Matlab is an interpreter built on Java and it has to interpret all that Matlab code. It requires 2GB of RAM.

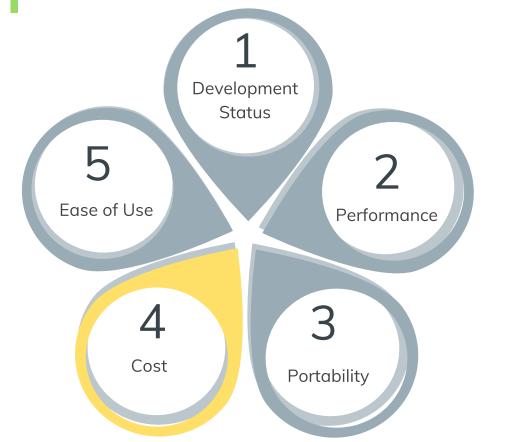




Python: Python provides support for almost all big operating systems.

Matlab: Windows, Linux and MacOS.

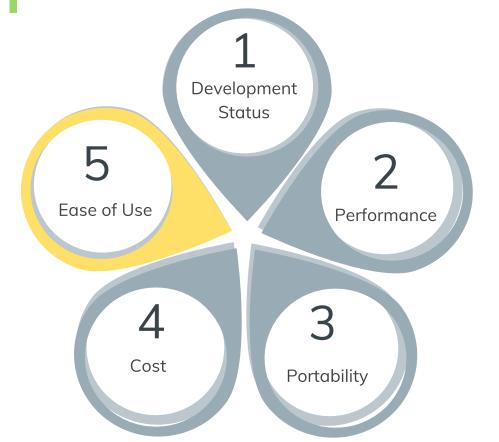




Python: Free and open source.

Matlab: Individual license of USD 2,350.





Python: It is one of the popular languages because of its simplicity and code readability. OpenCV development is a piece of cake in Python as compared to other languages.

Matlab: Matlab is high-level scripting language which is easy to learn. It's preferable for research work and prototyping.

Simple OpenCV Programs in Python



Image Read, Display and Write



Simple Image Editing



Webcam Video Recorder



Screen Recorder



Basic OCR (Object Character Recognition)

Summary Thank you for your Participation!