

數位匯流行動影音服務

OpenCV

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簡介

- OpenCV的全稱是Open Source Computer Vision Library
- 是一個跨平台的計算機視覺庫
(Windows、Linux、Unix、Mac OS、
Android、iOS)



- OpenCV是由英特爾(intel)公司發起並參與開發，以BSD許可證授權發行，可以在商業和研究領域中免費使用
- OpenCV可用於開發實時的圖像處理、計算機視覺以及模式識別程序

<http://zh.wikipedia.org/wiki/OpenCV>

什麼是OpenCV

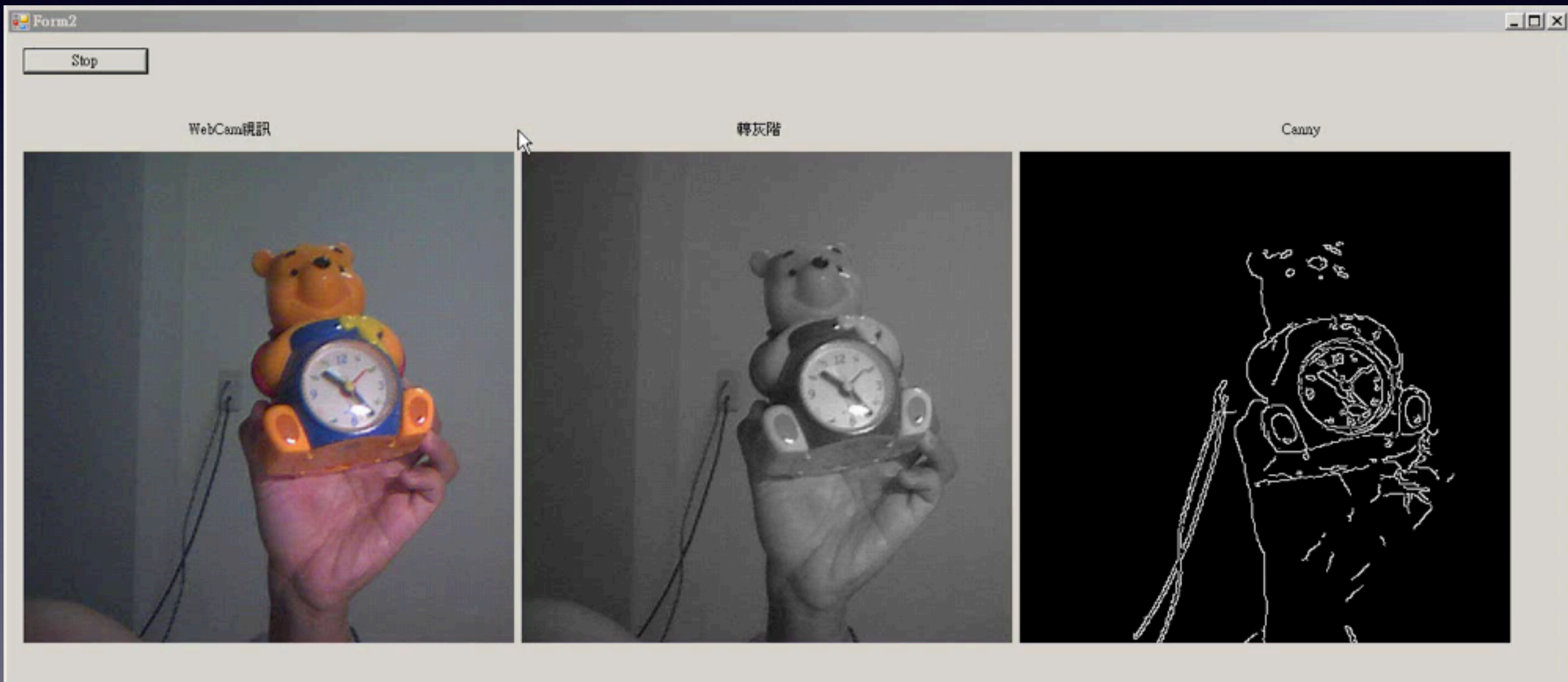
- OpenCV是Intel®開源電腦視覺庫。它由一系列 **C 函數**和少量 **C++ 類**構成，實現了**圖像處理**和**電腦視覺**方面的很多通用演算法。

OpenCV 重要特性

- OpenCV 擁有包括 300 多個C函數的跨平臺的中、高層 API。它不依賴於其它的外部庫--儘管也可以使用某些外部庫。
- OpenCV 對非商業應用和商業應用都是免費的。

- OpenCV 為Intel® Integrated Performance Primitives (IPP) 提供了透明介面。這意味著如果有為特定處理器優化的的 IPP 庫， OpenCV 將在運行時自動載入這些庫。

DEMO

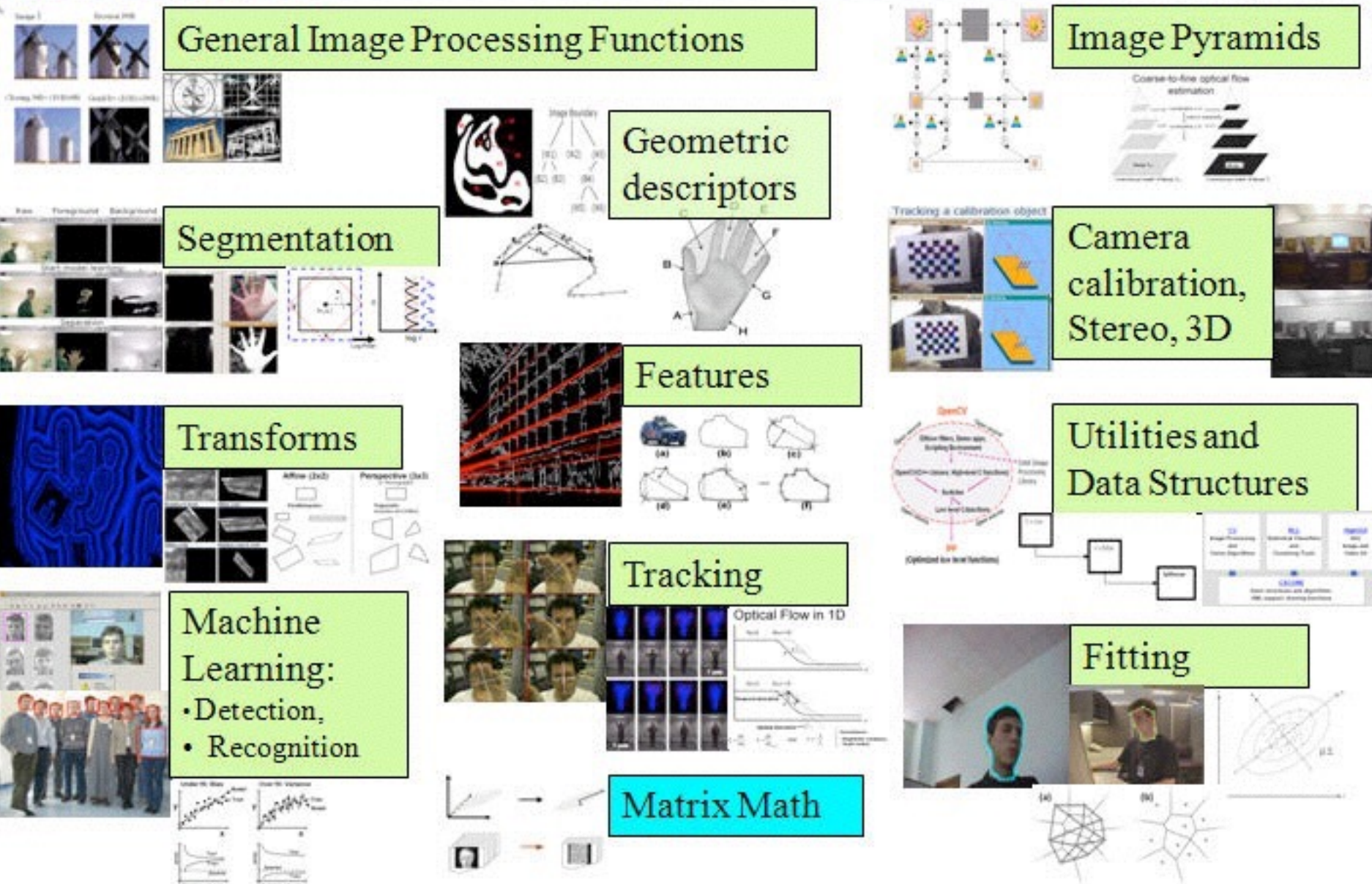


OpenCV Overview

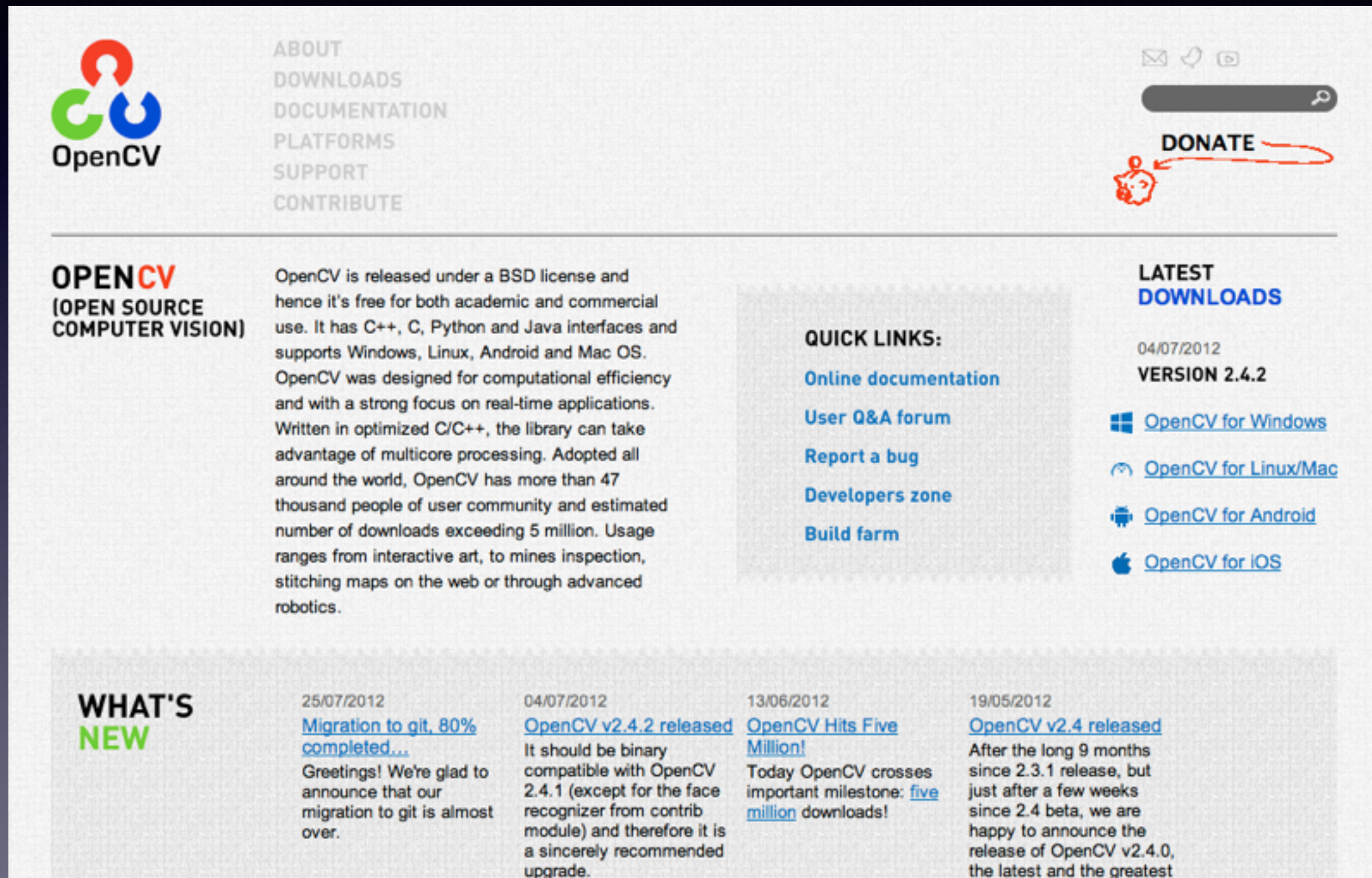
OpenCV Overview: > 500 functions

opencv.willowgarage.com

Robot support



參考網站



The screenshot shows the OpenCV website homepage. At the top left is the OpenCV logo. To its right is a vertical navigation menu with links: ABOUT, DOWNLOADS, DOCUMENTATION, PLATFORMS, SUPPORT, and CONTRIBUTE. On the top right, there are social media icons for email, Twitter, and YouTube, followed by a search bar and a red 'DONATE' button with a red arrow pointing to it. The main content area is divided into several sections. On the left, under the 'OPEN CV (OPEN SOURCE COMPUTER VISION)' header, is a paragraph describing the library's BSD license, supported platforms (Windows, Linux, Android, Mac OS), and its focus on real-time applications. To the right of this is a 'QUICK LINKS' section with links to 'Online documentation', 'User Q&A forum', 'Report a bug', 'Developers zone', and 'Build farm'. Further right is a 'LATEST DOWNLOADS' section dated 04/07/2012, announcing 'VERSION 2.4.2' and providing links for Windows, Linux/Mac, Android, and iOS. At the bottom, a 'WHAT'S NEW' section lists four recent updates with dates and brief descriptions: migration to git (25/07/2012), v2.4.2 release (04/07/2012), five million downloads (13/06/2012), and v2.4 release (19/05/2012).

OpenCV
(OPEN SOURCE COMPUTER VISION)

OpenCV is released under a BSD license and hence it's free for both academic and commercial use. It has C++, C, Python and Java interfaces and supports Windows, Linux, Android and Mac OS. OpenCV was designed for computational efficiency and with a strong focus on real-time applications. Written in optimized C/C++, the library can take advantage of multicore processing. Adopted all around the world, OpenCV has more than 47 thousand people of user community and estimated number of downloads exceeding 5 million. Usage ranges from interactive art, to mines inspection, stitching maps on the web or through advanced robotics.

QUICK LINKS:

- [Online documentation](#)
- [User Q&A forum](#)
- [Report a bug](#)
- [Developers zone](#)
- [Build farm](#)

LATEST DOWNLOADS

04/07/2012
VERSION 2.4.2

- [OpenCV for Windows](#)
- [OpenCV for Linux/Mac](#)
- [OpenCV for Android](#)
- [OpenCV for iOS](#)

WHAT'S NEW

Date	Event	Description
25/07/2012	Migration to git, 80% completed...	Greetings! We're glad to announce that our migration to git is almost over.
04/07/2012	OpenCV v2.4.2 released	It should be binary compatible with OpenCV 2.4.1 (except for the face recognizer from contrib module) and therefore it is a sincerely recommended upgrade.
13/06/2012	OpenCV Hits Five Million!	Today OpenCV crosses important milestone: five million downloads!
19/05/2012	OpenCV v2.4 released	After the long 9 months since 2.3.1 release, but just after a few weeks since 2.4 beta, we are happy to announce the release of OpenCV v2.4.0, the latest and the greatest

<http://opencv.org>

導航

首頁

新聞動態

最近更改

編輯幫助

關於本站

[Download metrics tools](#)

Download metrics tools for C, C++ and FORTRAN
www.scitools.com

Google 提供的廣告

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用戶登錄

工具

鏈入頁面

鏈出更改

上載文件

特殊頁面

可列印版

首頁

★敬請關注

OpenCV 2.3.1正式發佈

下載 **OpenCV 2.3.1**

OpenCV 2.3.1安裝

最新的**OpenCV**文檔(2.3.x, **SVN**版本) [↗](#)

文檔翻譯中，歡迎加入 [↗](#)

💡學習OpenCV(中文版)



作者: Gary Bradski, Adrian Kaehler
譯者: 于仕琪 劉瑞禎
出版社: 清華大學出版社
訂購: China-Pub75折 [↗](#); 噹噹75折 [↗](#)

[↗](#)

《學習OpenCV(中文版)》勘誤
贈書活動
本書常式代碼下載

💡OpenCV中文教程



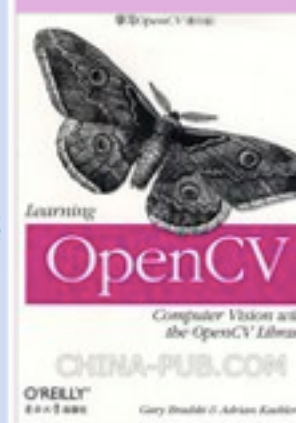
《OpenCV教程——基礎篇》(新版，內容有補充)
頁數: 443 (配光碟)
作者: 劉瑞禎 于仕琪
書號: 978-7-81124-035-1
訂購: China-Pub75折 [↗](#); 蔚藍81折 [↗](#)

[↗](#); 卓越76折 [↗](#); 噹噹75折 [↗](#); 淘寶 [↗](#)。

本書詳細信息

《OpenCV教程——基礎篇》勘誤

💡Learning OpenCV(影印版)



作者: Gary Bradski, Adrian Kaehler
出版社: 東南大學出版社
訂購: China-Pub75折 [↗](#);

🔍 OpenCV參考手冊

下類的中文文檔為**OpenCV1.x**的文檔。

最新的**OpenCV2.3**增加大量新功能，

<http://www.opencv.org.cn>