

**TELECOM**  
SudParis



Institut  
Mines-Télécom

# High Tech Imaging

IMA 4509 | Visual Content Analysis

# OpenCV Programming with Visual Studio



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# Installing OpenCV for Windows

## ■ Download latest version [opencv.org/downloads.html](https://opencv.org/downloads.html)

- Precompiled multi-architecture [build](#) tree = BUILD
- Architecture/IDE-specific subtrees  
[BUILD/x{64|86}/vc{11|12}](#) = LOCAL

## ■ OpenCV build tree structure

- [BUILD/include](#) header files .h .hpp
- [LOCAL/lib](#) static libraries .lib
- [LOCAL/bin](#) dynamic libraries .dll

Libraries for Visual Studio are available in [Release](#) and [Debug\\*](#) mode

(\*) filenames ending by letter *d*

# Installing OpenCV for Windows

## ■ System configuration

- If administration rights

▶ open control panel

Edit [Système et Sécurité](#) | [Système](#) | [Paramètres système avancés](#)  
[Variables d'environnement](#) | [Path](#) ▶ add [LOCAL/bin](#)

! Default system configuration in TSP Computer Rooms

- If no administration rights

▶ copy [LOCAL/bin/\\*.dll](#)  
to project [Release](#) | [Debug](#)  
directory

# Configuring Visual Studio for OpenCV

## ■ Create new project

▶ select mode **Release**

## ■ Configure project properties

### 1. Configure include path

- Category **C/C++ | Général**  
**Autres répertoires include**

▶ R-click over project name in the **Solution Explorer** panel (right)

▶ add **BUILD/include**

### 2. Configure library path

- Category **Editeur de liens | Général**  
**Répertoires de bibliothèques supplémentaires**

▶ add **LOCAL/lib**

- Category **Editeur de liens | Entrée**  
**Dépendances supplémentaires**

▶ add **\*.lib filenames**

# Helpers

## ■ Sample project [www-artemis.it-sudparis.eu/~rougon/IMA4509](http://www-artemis.it-sudparis.eu/~rougon/IMA4509)

Slides | Boot Camps > [OpenCV Sample Routines](#)

! project properties may need to be updated with user-specific settings

## ■ Sample code

Available in OpenCV [source](#) tree = **SOURCE**

– C++ code in [SOURCE/samples/cpp](#) = **CPP\_SAMPLES**

● [CPP\\_SAMPLES/tutorial\\_code](#) complete tutorial

## ■ Online documentation [opencv.org/documentation.html](http://opencv.org/documentation.html)

Reference | Tutorials | QuickStart | Wiki

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