

Prepare your PC for OpenVX Tutorial Session

We have prepared a VirtualBox VM with this new course material. Make sure to setup your computer before starting the tutorial.

- Choose a laptop with a recent 64-bit OS.
- Download and install a recent VirtualBox from <https://www.virtualbox.org/wiki/Downloads>.
- Download virtual machine "Ubuntu-64-OpenVX.zip" (2 GB) from <https://goo.gl/YfcTLh> and extract files into a local folder (~6 GB extracted).
 - This VM image includes all the necessary tools and packages required to run the tutorial, including the following two OpenVX implementations options:
 - [Open-source OpenVX on GitHub](#) from AMD (default)
 - Khronos OpenVX sample implementation from khronos.org/registry/vx
- Run VirtualBox and add "Ubuntu-64-OpenVX" virtual machine [Machine -> Add] from the local folder.
 - If you cannot install 64-bit VM, even though you have a 64-bit Windows, you need to enable virtualization in the BIOS.
 - In the Security section, enable Virtualization Technology and VT-d Feature.
 - On Windows 8.1, you also need to turn Hyper-V off (search for Turn Windows features on or off).
- Start the "Ubuntu-64-OpenVX" virtual machine ([username: openvx][password: openvx]).
- Run "Qt Creator" (click Qt icon on left) and open exercises project.
 - Open Project: CMakeLists.txt in /home/openvx/openvx_tutorial/tutorial_exercises
 - click *"Configure Project"* to open CMake Wizard
 - click *"Run CMake"* and *"Finish"*
- Select exercise1 as active sub-project.
 - click *"Open Build and Run Kit Selector"* under the *"Build"* menu
 - select Run *"exercise1"* under the Build *"Default"* and press ESCAPE
 - expand *"exercise1"* folder and click *"exercise1.cpp"*
 - you are going to modify this file during the first practice session
- Build the project and run.
 - click *"Run"* under the *"Build"* menu (or use keyboard shortcut Ctrl+R)
 - you should see video in a window (you can move the window for better view)
 - press ESCAPE or 'q' to exit the app

Please note that the VirtualBox VM might not have the latest version of tutorial exercises. You can copy files from this GitHub project into /home/openvx/openvx_tutorial directory when new updates are available.