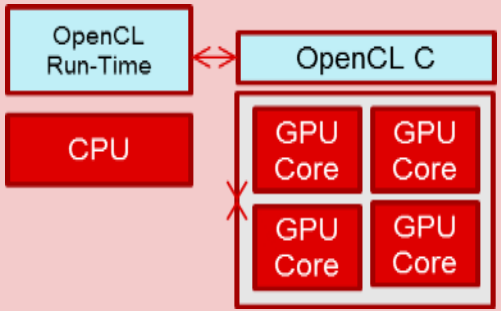
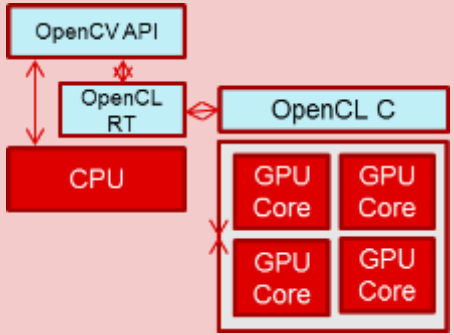
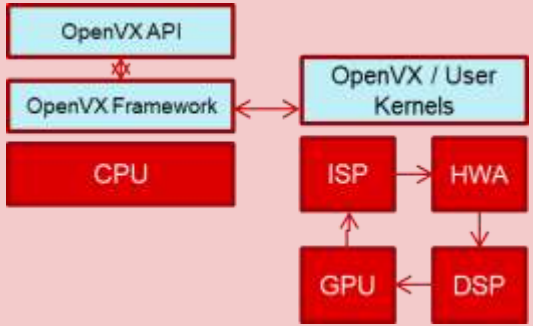
Introduction to OpenVX: Framework comparisons

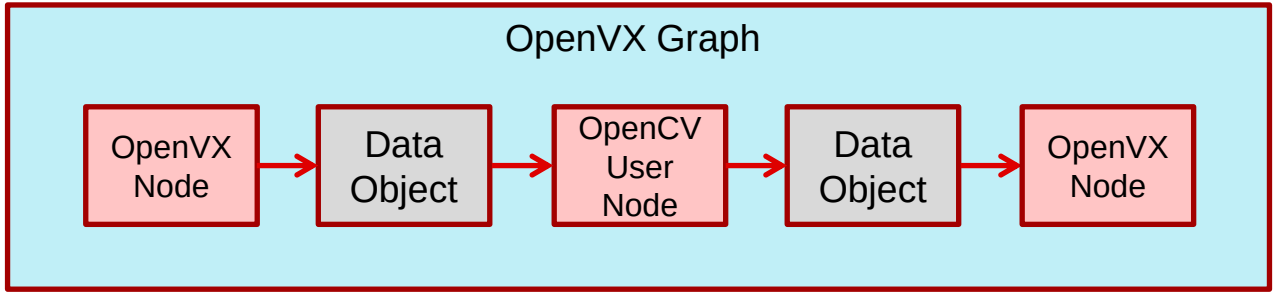
Open compute frameworks

	OpenCL	OpenCV	OpenVX
Maintainer	Khronos Group	Itseez (Intel)	Khronos Group
Version	First : 1.0 (2009) Latest: 2.2 (2019)	First: Alpha (2000) Latest: 4.1.1 (2019)	First: 1.0 (2014) Latest: 1.3 (2019)
License	open, royalty-free **specification**	BSD License **implementation**	open, royalty-free **specification**
Programming Model	(1) Parallel programming Language (OpenCL C) (2) Run-time control framework	(1) 1000+ Computer Vision Function Library	(1) SoC wide graph execution framework (2) 40+ OpenVX Functions Library (3) User Functions
Popular System Configuration			

OpenCV and OpenVX interaction

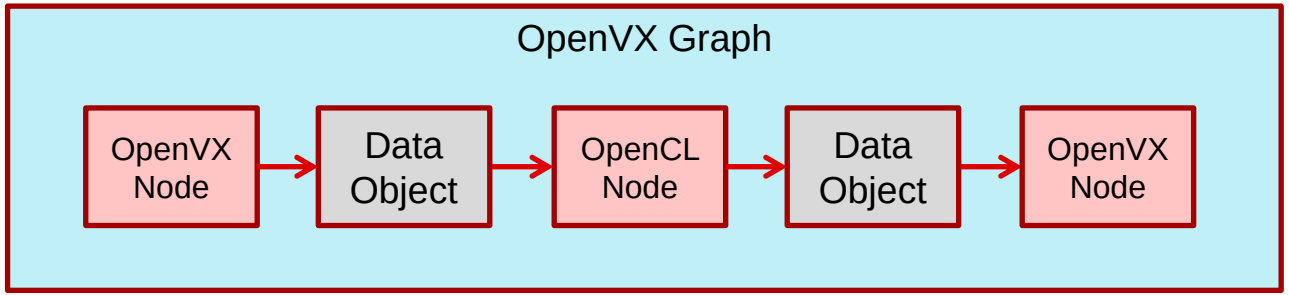
- Option 1: Sharing buffers between OpenCV and OpenVX

- Option 2: Wrapping OpenCV within an OpenVX user node



OpenCL and OpenVX interaction

- Dedicated node within OpenVX running OpenCL



For more information

- Jacinto 7 Processor SDK Automotive download:
  http://www.ti.com/tool/PROCESSOR-SDK-JACINTO-DRA8X-TDA4X
- Processor SDK Linux Automotive (PSDKLA) user guide:
  ${PSDKLA_INSTALL_PATH}/docs/linux/index.html
- Processor SDK RTOS Automotive (PSDKRA) user guide:
  ${PSDKRA_INSTALL_PATH}/index.html
- For additional questions, refer to the E2E community forums:
  https://e2e.ti.com/support/processors/f/791