Frequently-asked questions (FAQ)

Running MatConvNet

Do I need a specific version of the CUDA devkit?

Officially, MathWorks supports a specific version of the CUDA devkit with each MATLAB version (see here (../install/#gpu)). However, in practice we normally use the most recent version of CUDA (and cuDNN) available from NVIDIA without problems (see here (../install/#nvcc)).

Can I use MatConvNet with CuDNN?

Yes, and this is the recommended way of running MatConvNet on NVIDIA GPUs. However, you need to install cuDNN and link it to MatConvNet. See the installation instructions (../install/#cudnn) to know how.

How do I fix the error `Attempt to execute SCRIPT vl_nnconv as a function`?

Before the toolbox can be used, the MEX files (http://www.mathworks.com/support/tech-notes/1600/1605.html) must be compiled. Make sure to follow the installation instructions (../install/). If you have done so and the MEX files are still not recognized, check that the directory `matlab/toolbox/mex` contains the missing files. If the files are there, there may be a problem with the way MEX files have been compiled.

Why files such as `vl_nnconv.m` do not contain any code?

Functions such as `vl_nnconv`, `vl_nnpool`, `vl_nnbnorm` and many others are implemented MEX files. In this case, M files such as `vl_nnconv.m` contain only the function documentation. The code of the function is actually found in `matlab/src/vl_nnconv.cu` (a CUDA/C++ source file) or similar.