



# Project Preliminaries

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We are going to build a small code generation tool:

- Generate C/C++ source code.
  - Related codes and documents will be released next week.
  - Before that, please familiarize yourself with the following contents:
1. TVM 【a good code generation tool】
    - install TVM: [https://tvm.apache.org/docs/install/from\\_source.html](https://tvm.apache.org/docs/install/from_source.html)
    - write tensor expressions:  
[https://tvm.apache.org/docs/tutorials/tensor\\_expr\\_get\\_started.html#sphx-glr-tutorials-tensor-expr-get-started-py](https://tvm.apache.org/docs/tutorials/tensor_expr_get_started.html#sphx-glr-tutorials-tensor-expr-get-started-py)
    - explore other tutorials if you have interest
  2. GEMM and CONV 【know what they are】
    - GEMM: [https://tvm.apache.org/docs/tutorials/optimize/opt\\_gemm.html](https://tvm.apache.org/docs/tutorials/optimize/opt_gemm.html)
    - CONV: [https://tvm.apache.org/docs/tutorials/optimize/opt\\_conv\\_cuda.html](https://tvm.apache.org/docs/tutorials/optimize/opt_conv_cuda.html)
  3. C/C++ 【programming language, most of you should be experts】