1. Choose between a) `vscode` b) `visual studio`

1. `vscode` :- *lightweight*, (i'd say *faster* & *simpler*),
    i. *You can do basically anything, thanks to extensions*
2. `visual studio` :- big, doesn't look cool, strong, nice debugger, (but lacks good extensions)
    i. *only good for big projects*
    ii. *i wouldn't use before my project has hundreds of files*
3. `c++ compiler` :-
    i. *Linux:- GNU C / C++ Compilers*
    ii. *Mac:- Clang / LLVM*
    iii. *Intel:- Intel C++ Compiler*
    iv. *IBM:- IBM C++ Compiler*
    v. *Texas Instruments:- Their own C++ Compiler duuh* 🤓
        · *They make calculators haha*
    vi. *Windows:- Microsoft Visual C++ compiler/package*
        · *comes with two thingies*
        · `visual studio`
        · `visual studio buiild tools`
        · *both are separate & can co-exist in a windows/OS/system*
        · `vscode` *can use either of those two.*
        · `vscode` *can even use* `msys64 mingw-w64`
    vii. *On windows, you don't "Have To" grab* `visual studio` / `build tools`
        · *there is one other way*
        · *i.e.*
        · `msys64 mingw-w64`
        · *https://www.msys2.org/*
    viii. *if you plan to have both* `vscode` & `visual studio`
        · *you wouldn't need to install* `visual studio build tools` *separately*
        · *instead while installing* `visual studio` *grab* `C++ Development` + `Windows SDK` ~

`Way-2` :- Grabbing `visual studio`

1. https://visualstudio.microsoft.com/downloads/
2. you will see `visual studio` @ the top part of the webpage
3. choose `C++ Development` , `Windows SDK` when installing
    i. *this will install the* `C++ Compiler & Stuffs` *, windows people calls it* `Microsoft Visual C++ compiler/package`
    ii. *you don't need* `visual studio build tools` *simultanously along with it*

`Way-1` :- Grabbing `vscode`

1. https://code.visualstudio.com/download
2. now we need `C++ Compiler`
    i. `option-1` *:- grab the* `build tools` *from the end of this page*
        · *https://visualstudio.microsoft.com/downloads/?q=build+tools*
    ii. `option-2` *:- the msys64 --> mingw-w64 [package]*
        · *it contains the [gnu] c++ compiler, built for windows* 😄

- https://www.msys2.org/
    iii. `option-3` :- *grabbing* `visual studio` *with* `C++ Dev` + `Windows SDK`
3. now we need some `vscode extensions` 😊
    i. *i.e. extra features made by the community*
        - *remember:- these features can be really really powerfull* 😵
    ii. *extension* ms-vscode.cmake-tools
    iii. *extension* twxs.cmake
    iv. *extension* ms-vscode.cpptools
    v. *restart VSCode*

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