Windows:

Using VCPKG to Install Crow

This is the simplest way to install Crow.

Select folder for your root project in vs code and get ready to use the power shell terminal:

Install vcpkg in directory:
powershell:

```
git clone https://github.com/microsoft/vcpkg.git
cd vcpkg
\bootstrap-vcpkg.bat
```

Install Crow using vcpkg:

powershell:

```
.\vcpkg.exe install crow
```

Integrate vcpkg globally (optional but recommended):

powershell:

```
.\vcpkg.exe integrate install
```

Next Steps: Setting Up Crow in Your C++ Project

Now that Crow is installed via vcpkg, you need to create your `CMakeLists.txt` file and write some code to test the setup. Make sure to visit this link and install CMake([Download CMake](#)). During the installation, ensure you check the option to add CMake to the system variables. After installation, restart your computer for the changes to take effect. Once restarted, check the CMake version by running `cmake --version` in the VS Code PowerShell.

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1. Create a New C++ Project (If Not Done Already)

If you haven't already created a project, do this:

1. **Go to your root project folder.**
2. **Create a new folder** for your project (e.g., `CrowProject`).
3. `cd path\to\CrowProject`
4. Inside that folder, create a `CMakeLists.txt` file.
5. Inside that folder, create a `main.cpp` file.

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2. Write a Basic Crow Server (`main.cpp`)

Open `main.cpp` in your code editor (VS Code or any other editor) and add this simple Crow server:

Copy this .Cpp:

```cpp
#include "crow.h"

int main() {
    crow::SimpleApp app;

    CROW_ROUTE(app, "/")([]() {
        return "Hello, Crow!";
    });

    app.port(8080).multithreaded().run();
}
```

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3. Create `CMakeLists.txt`

In the same folder as `main.cpp`, create a `CMakeLists.txt` file and add:

Copy this txt cmake:

```cmake
cmake_minimum_required(VERSION 3.10)
project(MyCrowApp)

set(CMAKE_CXX_STANDARD 17)
```

```
# Find Crow and its dependencies
find_package(Crow CONFIG REQUIRED)

add_executable(MyCrowApp main.cpp)

# Link Crow
target_link_libraries(MyCrowApp PRIVATE Crow::Crow)
```

At this stage, your root project directory should contain the following folders: `vcpkg` and `CrowProject`. Inside the `CrowProject` directory, you should have two files: `main.cpp` and `CMakeLists.txt`. Once this is the case, proceed with the following steps.

Now comes the important part: make sure your current directory is set to `CrowProject`. In the Explorer, click on the `vcpkg` directory, then navigate to `scripts/buildsystems/` and right-click on `vcpkg.cmake` to copy the path. Once you've done that, go to your terminal and paste the following code:

Run this in PowerShellt

`cmake -B build -DCMAKE_TOOLCHAIN_FILE="Your Copied FILEPATH"`

`cmake --build build` *(run this to keep updating changes)*

Once done, go to the `build/Debug` directory and run `./MyCrowApp.exe`.

Then, go to `localhost:8080`, and it should display "Hello, World!"