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Vorkurs Informatik – C++ on Win10

1 C++ Compiler and Notepad ++ installation and usage

Step 1 - Download Notepad++

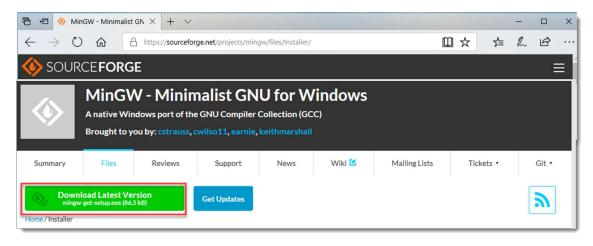
Use the Edge Browser to download the Notepad ++ Tool from:

https://notepad-plus-plus.org/download/v7.5.5.html



Step 2 - Download MinGW Installer

https://sourceforge.net/projects/mingw/files/Installer/



The two installers can now be found within the User Home Download folder:

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Fach: Vorkurs Informatik (VKI)



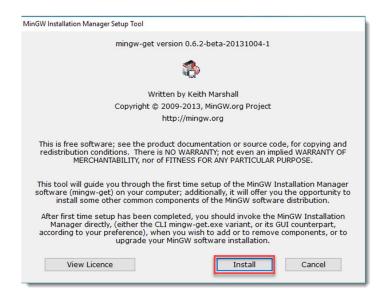
Step 3 - Install Notepad ++ with the Installer

Step through the installation (keep the default installation settings)



Step 4 - Install MinGW with the Installer

Click on "Install" to proceed:



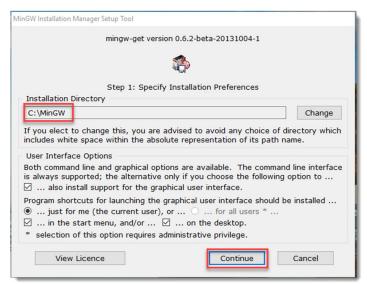
Keep the default installation Directory "C:\MinGW"

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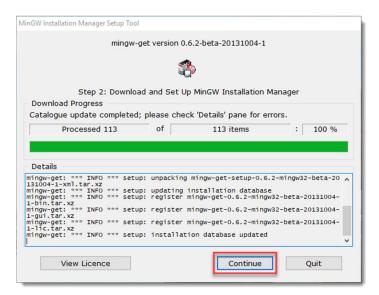








Some downloads will take place ... when finished click on "Continue"...

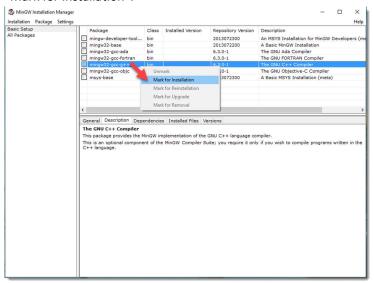


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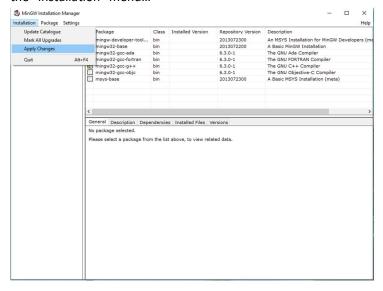




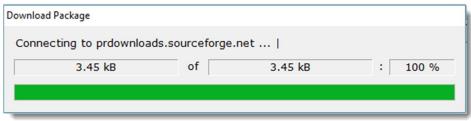
Next the feature selection pane appears – select the G++ Compiler by using the context menu option "Mark for Installation":



Complete and proceed with the selection ... for that purpose use the option "Apply Changes" from the "Installation" menu...



The installer downloads the selected items:



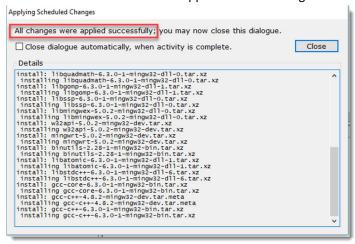
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When done – the confirmation appears that all changes were applied successfully:

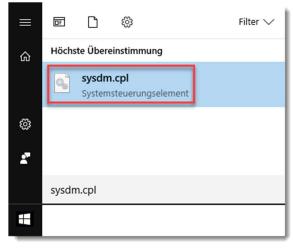


Close all panels of the installer that are visible to complete the installation activities.

Step 5 - Extend Path System Variable:

In order to allow to access g++ (Gnu C++ Compiler) and notepad++ from any path in a console – it is recommended to alter the Path System Variable as followed:

Open the extended system settings by looking up "sysdm.cpl" ...



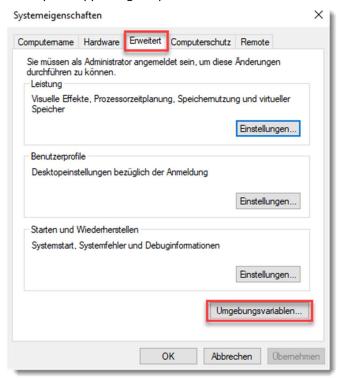
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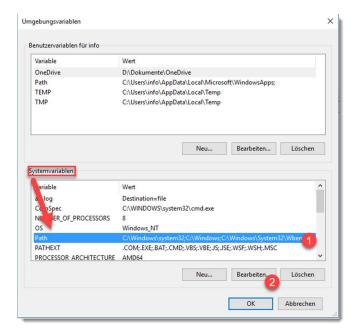


In the panel appearing swap to the tab "Advanced" – then hit the button "Environment Variables"...



In the popup panel perform the following two actions:

- -1- Select the item "Path" in the lower section with the caption: "System variables"
- -2- Click the button "Edit"



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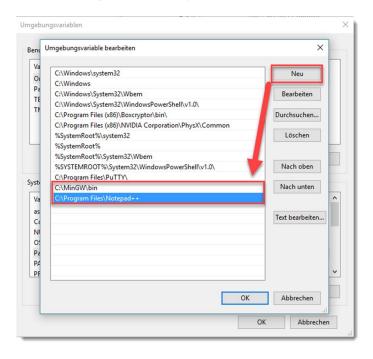




Another popup appears allowing to insert new properties to the Path System Variable...

Add the following two new items by using the button "New":

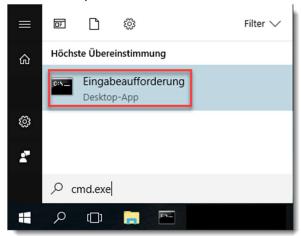
- C:\MinGW\bin
- C:\Program Files\Notepad++



When done – close all open panels with the button "OK".

Step 6 – Create your personal "Development" folder:

Use the lookup feature to locate "cmd.exe"



When launched the Windows Command Prompt appears – allowing you to enter the below commands:

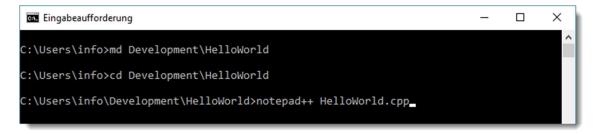
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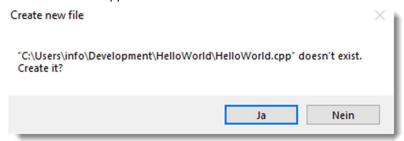




md Development\HelloWorld
cd Development\HelloWorld
notepad++ HelloWorld.cpp



When the last command is being executed a popup appears asking you if you want to create the new File "HelloWorld.cpp"...



Confirm the Dialog by clicking the button "Yes"...

Step 7 – Write some C++ Code by using the "notepad++" editor:

The notepad++ Editor appears with a blank document.

Type the listed Code from below into the editor panel:

```
#include<iostream>
using namespace std;

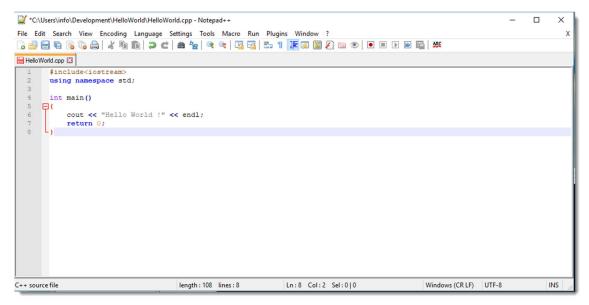
int main()
{
    cout << "Hello World !" << endl;
    return 0;
}</pre>
```

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Save the edited file by pressing the key combination...



Step 8 – Compile your program > "HelloWorld.cpp"

In order to compile your program, enter the following instruction in the console:

```
g++ HelloWorld.cpp -o HelloWorld.exe
```

Finally run your program with the command:

HelloWorld.exe



The output of your first program is:

Hello World !

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