



# Programação de Computadores (PC)

Instruções para instalação e configuração do  
Geany, GCC e GDB



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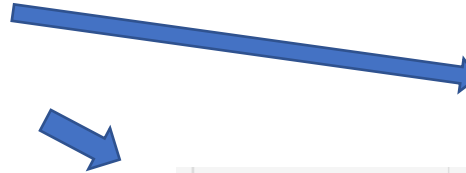
# Baixar/download do Geany, GCC e GDB

- **Geany 1.38**
- <https://www.geany.org/download/releases/>
- **Mingw (GCC)**
- <https://sourceforge.net/projects/mingw/>
- **Geany Plugin 1.38 (GDB)**
- <https://www.geany.org/download/releases/>



Windows

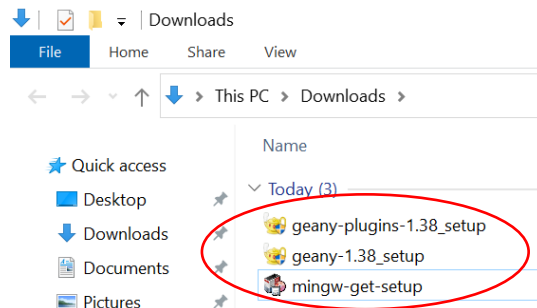
geany-1.38\_setup.exe



Windows

geany-plugins-1.38\_setup.exe

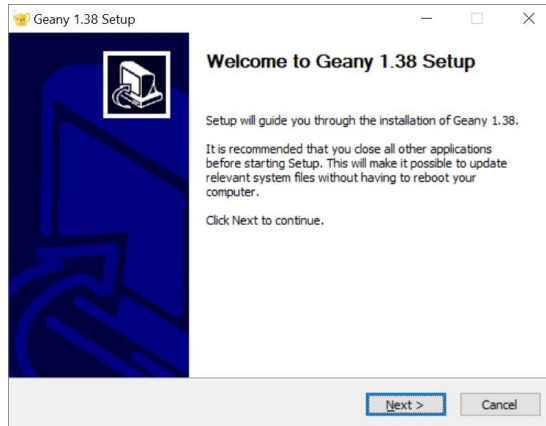
Após o *download* dos ficheiros, estes tipicamente estarão disponíveis na pasta ...**\Downloads**



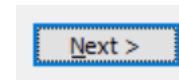
**NOTA:** Tenha em atenção que o Windows por vezes “bloqueia” o acesso a ficheiros do tipo .exe

# Instalações do Geany, GCC e GDB

1. Assumindo, em Windows, que os ficheiros foram descarregados para a pasta ...\**Downloads**
2. Comece por instalar o Geany (geany-1.38\_setup)

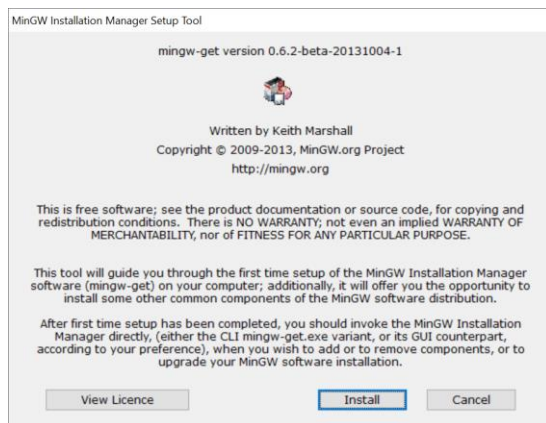


Carregue em Next > I Agree > Next > Next > ...



No final, carregue em Finish

3. Instale o MINGW (mingw-get-setup)



Carregue em Install > Continue > Continue ...

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Se preferir, pode consultar o link/Youtube com detalhes sobre a instalação:

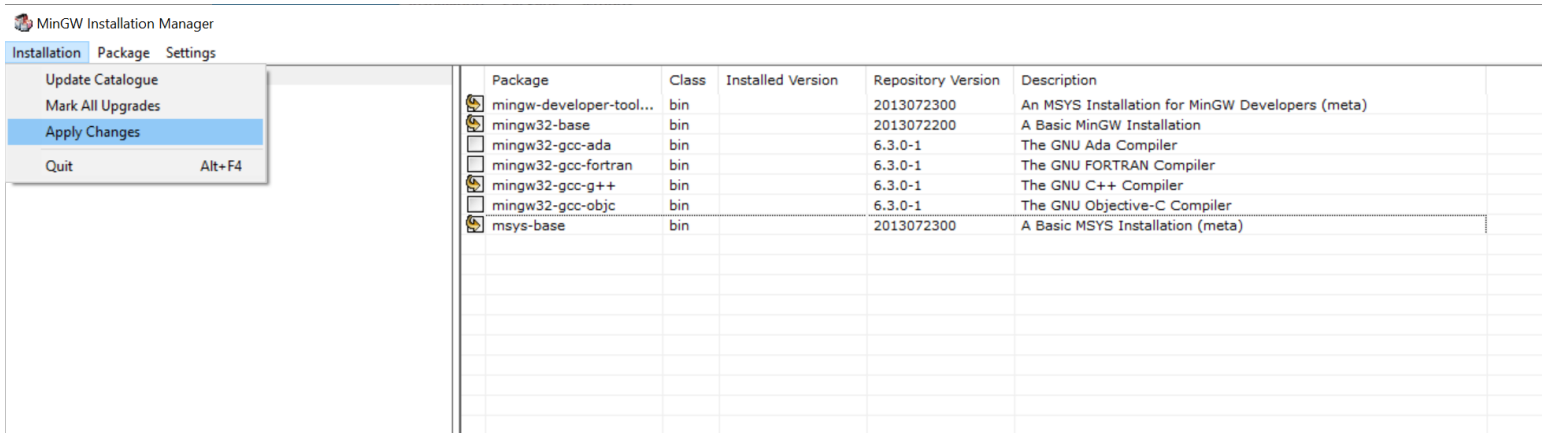
<https://www.youtube.com/watch?v=9PAglZIRolo>



### 3. Instalação do MINGW (continuação)

3.1 Selecione os Packages: mingw32-base, gcc-g++, msys-base

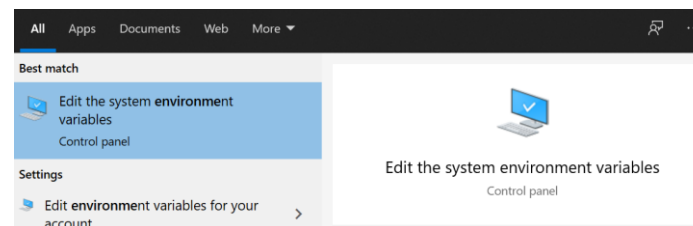
3.2 Clique em <Installation> e então em <Apply Changes> e finalmente <Apply>



4. Para o MINGW funcionar corretamente, é preciso definir/editar o **PATH environment variable**

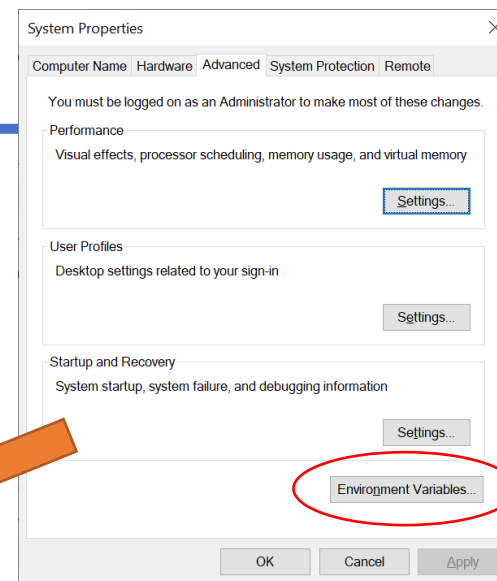
4.1 Selecione e copie o *path* da pasta na qual está os ficheiros do MinGW eg, C:\MinGW\bin

4.2 Carregue na tecla “Windows” e digite **environment variables ... Edit:**

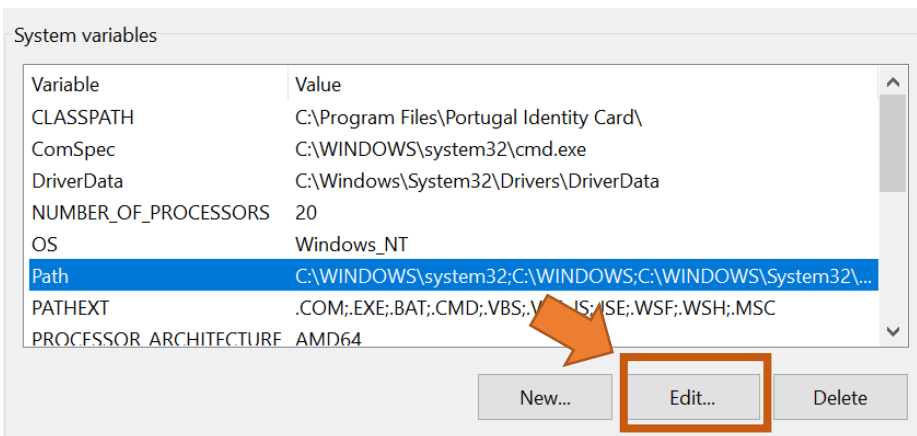


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4.3 Na janela “System Properties”, carregue em <Environment Variables...>

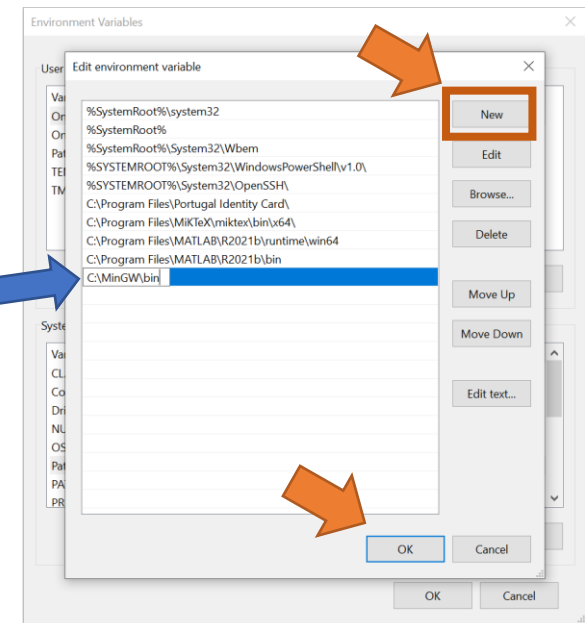


4.4 Em “System variables”, selecione <Path> e clique em <Edit...>



4.5 Em “System variables”, selecione <Path> e clique em <Edit...>

4.6 Carregue em <New> e cole/digite o path eg, C:\MinGW\bin



4.7 Finalizar: OK, OK, ..., OK

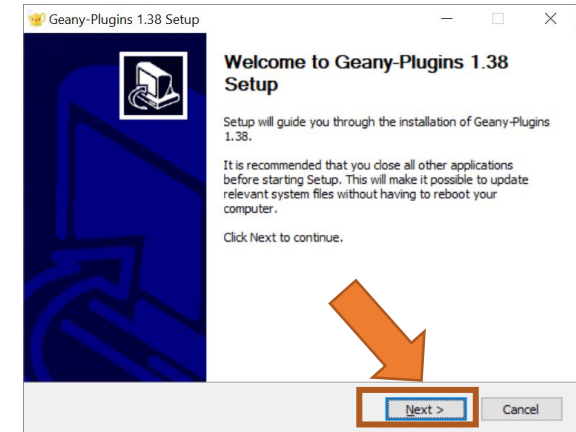
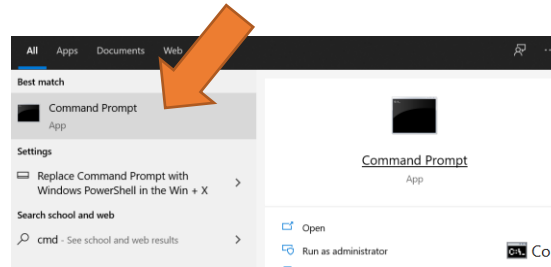
## 5. Instalação do GDB (geany-plugins-1.38\_setup)

This PC > Downloads >

| Name                     | Date modified    |
|--------------------------|------------------|
| ▼ Today (3)              |                  |
| mingw-get-setup          | 12/10/2021 12:06 |
| geany-plugins-1.38_setup | 12/10/2021 11:53 |
| geany-1.38_setup         | 12/10/2021 11:47 |

## 6. Testar as instalações

### 6.1 Via tecla "windows", digite "cmd"



### 6.2 na linha de comandos (command prompt) digite: \$ g++ --version

### 6.3 na linha de comandos (Prompt) digite: \$ gdb --version



output

output

```

C:\> g++ --version
g++ (MinGW.org GCC-6.3.0-1) 6.3.0
Copyright (C) 2016 Free Software Foundation, Inc.
This is free software; see the source for copying conditions. There is NO
warranty; not even for MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.

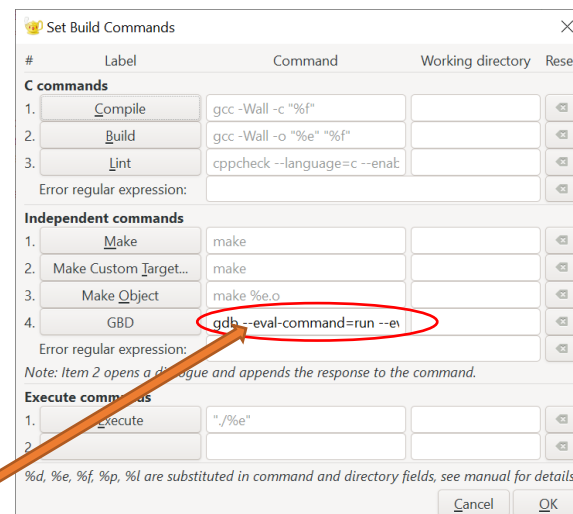
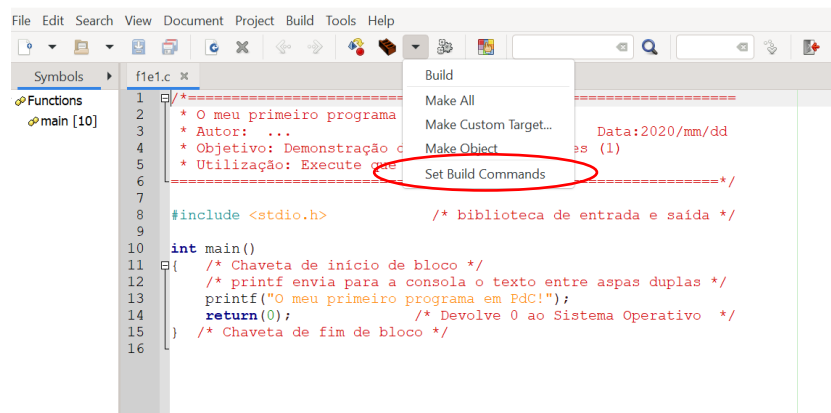
C:\> gdb --version
GNU gdb (GDB) 7.6.1
Copyright (C) 2013 Free Software Foundation, Inc.
License GPLv3+: GNU GPL version 3 or later <http://gnu.org/licenses/gpl.html>
This is free software: you are free to change and redistribute it.
There is NO WARRANTY, to the extent permitted by law. Type "show copying"
and "show warranty" for details.
This GDB was configured as "mingw32".
For bug reporting instructions, please see:
<http://www.gnu.org/software/gdb/bugs/>.

C:\>
  
```



## 7. Configuração Geany-GDB

### 7.1. Abrir o Geany



Copiar e Colar:

**`gdb --eval-command=run --eval-command=quit -q "%e"`**

**Nota final:** pode ser preciso reiniciar o computador, para assumir a nova PATH.