Instalar primeiramente o MinGW

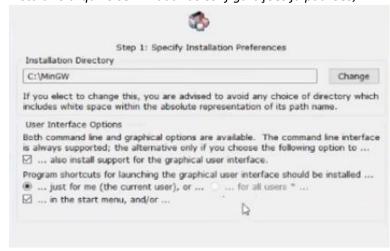
1. No endereço URL

http://www.mingw.org/wiki/HOWTO_Install_the_MinGW_GCC_Compiler_Suite,

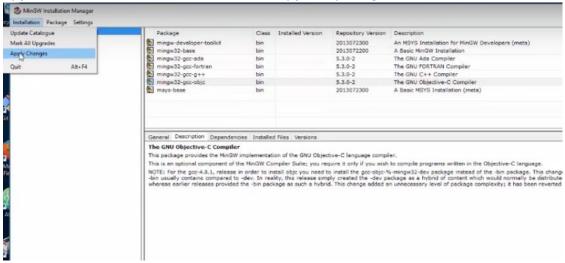
baixe o arquivo MinGW; → C 0 w MinGW Download Installer HOWTO Install the MinGW (GCC) Compiler Suite Search mingw-users View Revisions Administrative Update Choose Mail List: Automated Installer accepting donations. Please Search If you are new to MinGW, see the MinGW Getting Started instructions to use the automated GUI or manual CLI (Command Line Interface) installers. What see the Donate page for follows below are instructions for a very "manual" download, typically only attempted by more exp more information on how to Manual Installation User login O Determine which files below you need and download them. Login/Register Extract the files into a directory such as C:\MinGW
 Add C:\MinGW\bin; to the PATH environment variable Drupal Navigation You will need a program that can extract .tar.izma files, such as 7-Zip or one that provides command-line tar and izma tools. A basic standalone tar program that includes Izma support is available from the MinGW project and is called bsdtar You must add C:\MinGW\bin; to your user PATH environment variable manually. You can permanently add C:\MinGW\bin; to your PATH by following the O Donate What Can You Do for instructions in the "Environment Settings" section on the MinGW Getting Started page. There are various activities potentially have installations such as: spare each week. Below is a list of a few of those things you can help us with. C:\MinGW-4.8.1

- 2. Após selecionar a opção "Download Installer" será redirecionado a página Sourceforge;
- 3. Instalar o arquivo sem mudar as configurações já padrões;

etc.

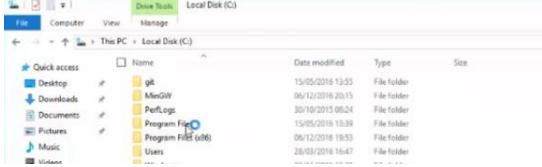


4. Após o processo ele irá abrir uma nova janela solicitando que sejam marcadas as opções a serem instaladas, selecione todas as opções e prossiga;

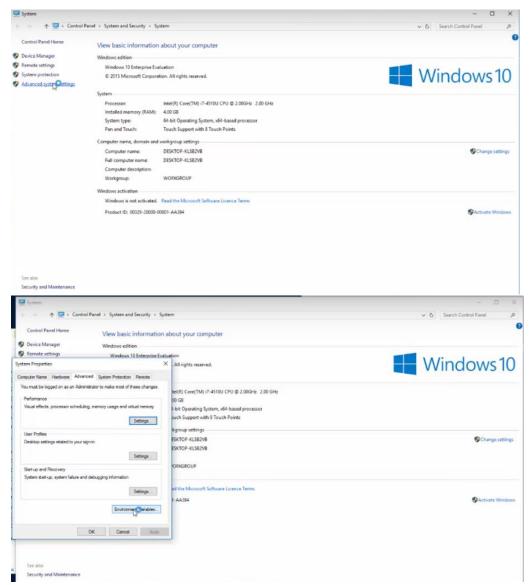


5. Quando terminar de instalar todas as opções anteriormente exibidas, serão preenchidas as suas caixas de seleção;

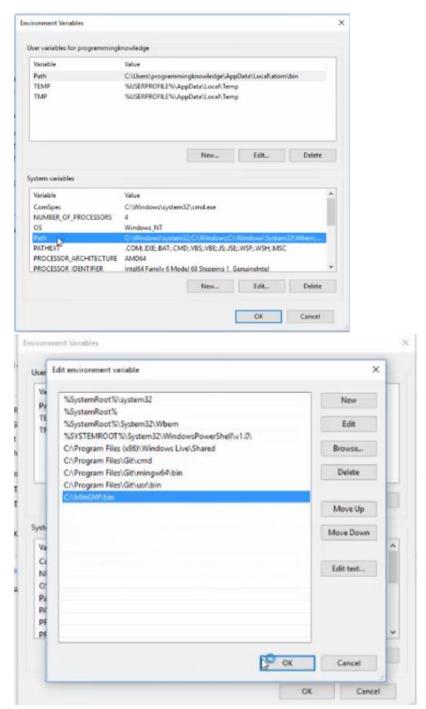




 Após concluída a instalação, vá até "Sistema"→"Configurações avançadas do sistema";



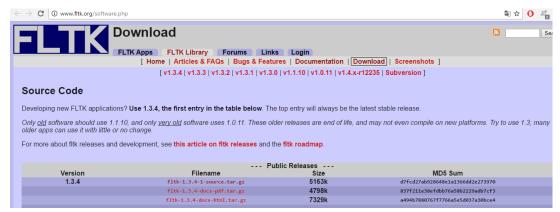
7. Nas opções "Variáveis de Ambiente", na opção "Path" em variáveis do sistema e pressione para "Editar", logo em seguida adicione outra variável com o endereço da instalação do MinGW que por default seria "C:\MinGW", o valor a colocar seria "C:\MinGW\bin";



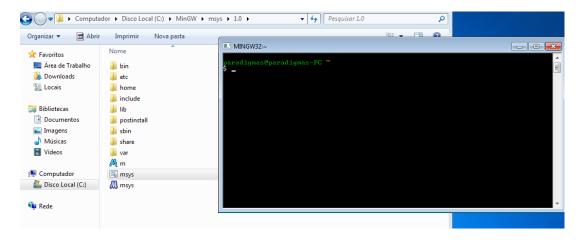
8. Após este processo o compilador "gcc" e "g++" estaram funcionando pelo prompt do sistema operacional;

Instalar o FLTK

1. Baixe o FLTK, após descompactar o arquivo "tar.gz" coloque a pasta descompactada na pasta do MinGW, na pasta 'msys\1.0\'; link download http://www.fltk.org/software.php;



2. Após este processo vá até "c:\MinGW\msys\1.0\msys.bat" e execute o arquivo;



- 3. Quando abrir o terminal navegue até o diretório em que se encontra a pasta do "fltk", e após dentro da pasta digite os seguintes comandos:
 - make configure
 - ./configure --enable-threads --enable-shared --enable-localjpeg -enabe-localzlib --enable-localpng
 - make
 - make install

```
mingwaseparadigmas-PC %
cd ..

paradigmaseparadigmas-PC /home
cd ..

paradigmaseparadigmas-PC /
s ls

bin fltk-1.3.4-1 include m.ico msys.ico sbin var
etc home lib msys.bat postinstall share

paradigmaseparadigmas-PC /
s
```

```
mingwaseparadigmas-PC *
$ cd ..

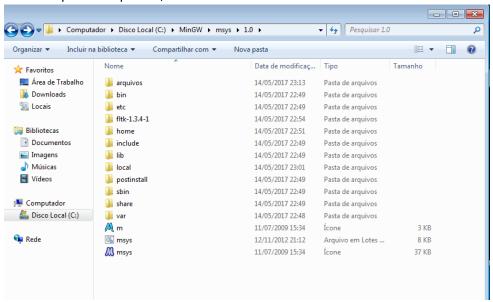
paradigmaseparadigmas-PC /home
$ cd ..

paradigmaseparadigmas-PC /
$ ls
bin fltk-1.3.4-1 include m.ico msys.ico sbin var
etc home lib msys.bat postinstall share

paradigmaseparadigmas-PC /
$ cd fltk-1.3.4-1/

paradigmaseparadigmas-PC /fltk-1.3.4-1
$ make configure_
```

- 4. Após os comandos acima serem executados, a biblioteca estará funcionando;
- 5. Crie uma pasta "arquivos";



6. Crie o arquivo "teste.cpp";

```
#include<FL/FL.H>
#include<FL/Fl_Window.H>
#include<FL/Fl_Button.H>

using namespace std;

int main(){
        Fl_Window win(800, 600, "demo");
        win.begin();
        Fl_Button but(20, 20, 60, 25, "Hello");
        win.end();
        win.show();

        return Fl::run();
}
```

 Execute o arquivo pelo terminal "msys", utilizando a seguinte linha de comando "fltkconfig --compile NOMEDOARQUIVO.cpp";

```
MINGW32:/arquivos

paradigmas@paradigmas=PC /
$ 1s
bin fltk-1.3.4-1 include local msys.bat postinstall share
etc home lib m.ico msys.ico sbin var

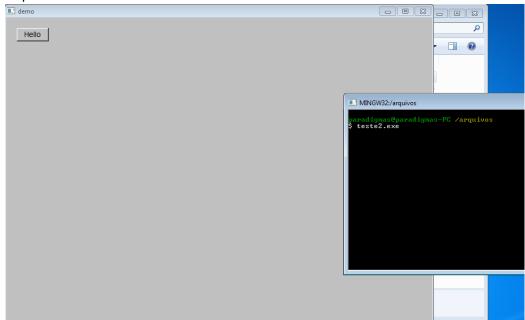
paradigmas@paradigmas=PC /
$ 1s
arquivos etc home lib m.ico msys.ico sbin var
bin fltk-1.3.4-1 include local msys.bat postinstall share

paradigmas@paradigmas=PC /
$ cd arquivos /
paradigmas@paradigmas=PC /arquivos
$ 1s
teste2.cpp

paradigmas@paradigmas=PC /arquivos
$ fltk-config --compile teste2.cpp
g++ -1/usr/local/include -1/usr/local/include/FL/images -mwindows -DWIN32 -DUSE_
OPENGI32 -D_LARGEFILE_SOURCE -D_LARGEFILE64_SOURCE -o 'teste2' 'teste2.cpp' -mwi
ndows -static-libgcc -static-libstdc++ -Wl,--enable-auto-import -Wl,--enable-run
time-pseudo-reloc /usr/local/lib/libfltk.a -lole32 -luuid -lcomct132

paradigmas@paradigmas=PC /arquivos
```

8. Depois é só executar



Bibliografia

http://www.fltk.org/software.php

http://www.fltk.org/documentation.php

https://sourceforge.net/projects/mingw-w64/?source=typ_redirect

http://bmatthew1.altervista.org/building.fltk.html

http://www.fltk.org/articles.php?L598+I140+T+P1+Q

https://www.youtube.com/watch?v=UUsZAEEn1cw

https://www.youtube.com/watch?v=0eSOPWQ1n6U