

COMP-2660

Introduction to Easy-MASM

By Jeremie Bornais and Usman Farooqi



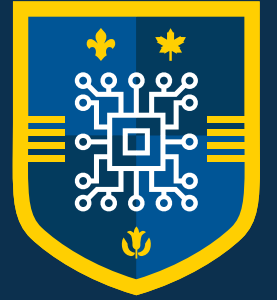
MEET THE PRESENTER

JEREMIE BORNAIS



Jeremie is the President of the University of Windsor Computer Science Society and the creator of Easy-MASM. Jeremie is also one of the founders of the WinHacks and BorderHacks hackathons, and loves everything tech!

<http://github.com/jere-mie>



MEET THE PRESENTER

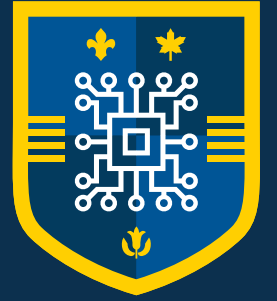
USMAN FAROOQI



Usman is an Event Coordinator on the University of Windsor Computer Science Society, a contributor to Easy-MASM, and a TA for the COMP 2660 class.

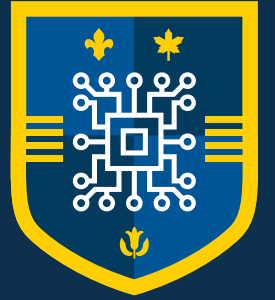
Usman is also the President of the UWindsor Video Game Design Club and an administrator of the Windsor Code Camp!

<https://github.com/farooqiusman>



Today's Schedule

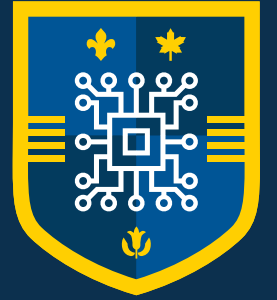
- 1) A brief introduction to what Easy-MASM is and why you should use it
- 2) An interactive demo on how to set up and use Easy-MASM on Windows (presented by Jeremie)
- 3) An interactive demo on how to use Easy-MASM as a Mac or Linux user (presented by Usman)
- 4) A session about SSH, SFTP, SCP, and how to set it all up to maximize your productivity (presented by Usman)



What is Easy-MASM?

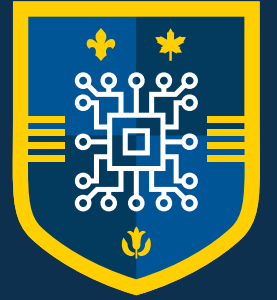
Easy-MASM is the quickest and easiest way to start coding in MASM for the COMP 2660 class.

It works on Windows out of the box, Linux with WINE installed, and versions of MacOS where WINE can be installed.



Why Use Easy-MASM?

1. Easy-MASM is **quick to set up**, it only takes **three easy steps to get started**.
2. It is lightweight and small to download at **less than 8mb!** (As opposed to Visual Studio which is several GB in size)
3. It is **cross-platform**. Whether you're on Windows or Linux, you can use Easy-MASM (Mac users can use Easy-MASM too via SSH into the CS Servers or using No Machine!)
4. You can **use any text editor you want**. Whether it's VS Code, Notepad++, or Vim, Easy-MASM does not discriminate

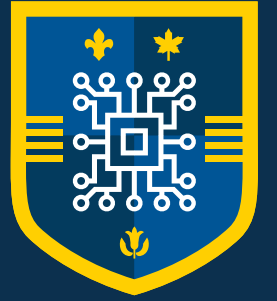


Three easy steps to get started

Clone or download the Easy-MASM GitHub repo found at: <https://github.com/jere-mie/easy-masm>

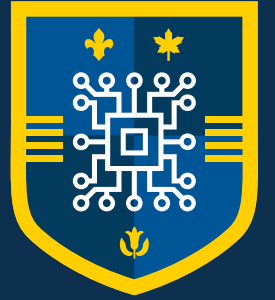
Edit the “source.asm” file (or create your own .asm file) in the “src” folder

Run your program from the Command Prompt or PowerShell using “run source” or “./run source”



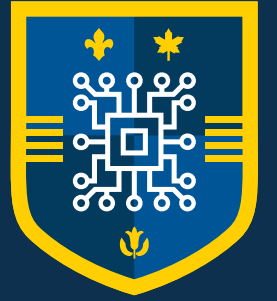
Let's take a look
at how it works!

Troubleshooting



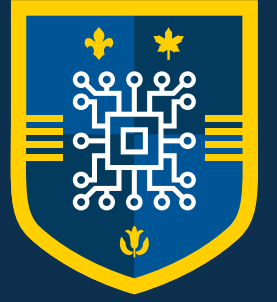
```
rm: cannot remove 'source.obj': No such file or directory
bravo:~/Desktop/easy-masm$ vim run.sh
bravo:~/Desktop/easy-masm$ ./run.sh source
[wine: could not load kernel32.dll, status c0000135
[wine: could not load kernel32.dll, status c0000135
wine: could not load kernel32.dll, status c0000135
rm: cannot remove 'source.exe': No such file or directory
rm: cannot remove 'source.obj': No such file or directory
bravo:~/Desktop/easy-masm$ cd src
bravo:~/Desktop/easy-masm/src$ cat source.asm
```

SSH (Secure Shell)

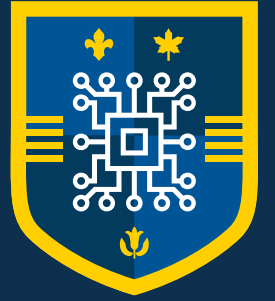


- What is **SSH**?
- How to use **SSH**?
- Setting up **SSH** keys

SCP and SFTP



- What is **SCP**?
- What is **SFTP**?
- Difference between the **two**



Have any **questions?**

Feel free to email me at borna113@uwindsor.ca or farooqiu@uwindsor.ca

Or reach out to me on Discord => css.uwindsor.ca/discord