

# Sigg • Mal



# Meeting 1

# Intros

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↳ “Malware Analysis”

>> Security, Development, and anything “Malware” related

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Why this SIG in particular?

↳ Building security skills / knowledge + CTF practices

>> Increased proficiency within security

>> General knowledge and CTF specific practicals

# Topics

- Reverse Engineering
- Binary Exploitation
- Malware Analysis
- Exploit Development + Analysis
- Development + General “Fuckery” with Programs
- Security within Github Projects

❖ Mainly look into variants of the \*nix OS.

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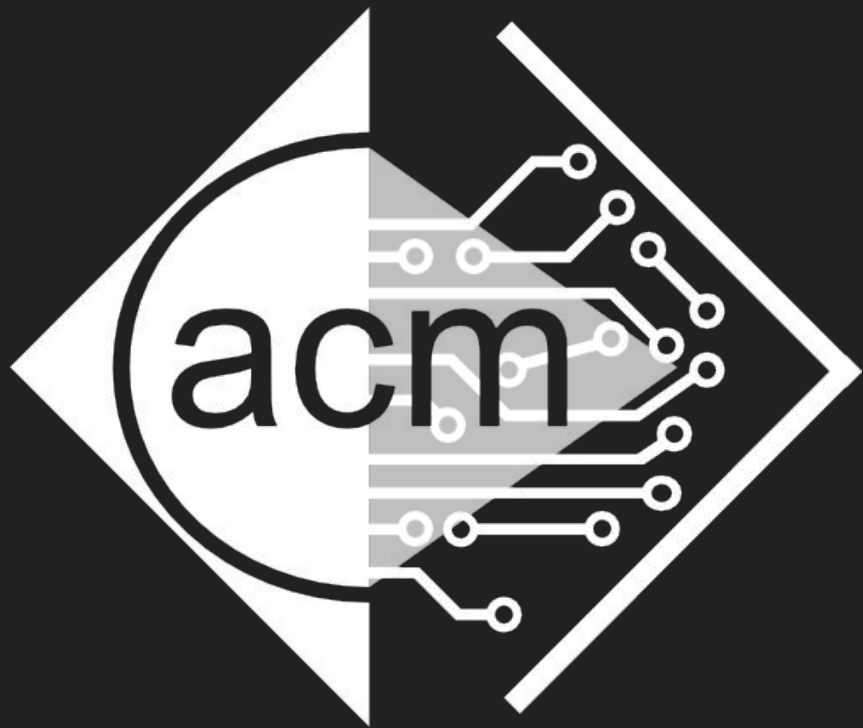
## Defensive / Forensics Semester

- ❖ Mainly look into variants of the \*nix OS.

# Tenets of Sig•Mal

- Big on open-source
- NO one is really an expert
- Do not completely reinvent the wheel
- You don't 'need' coding for security, but it makes you better

# Thanks + Personal Introductions



Andrew (missioninit)

Phil (sourdough)

Justin (wuteztrain)

If I don't know something,  
these legends might. They are  
also really helpful with  
leading Sig•Mal!



# OS and their Executables

Windows	ELF (Executable and Linkage Format)
Linux	PE File (Portable Executable)
MacOS	Mach-O Executable

# Types of Malware Analysis

- Static
- Dynamic

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- Static

- Not running the program

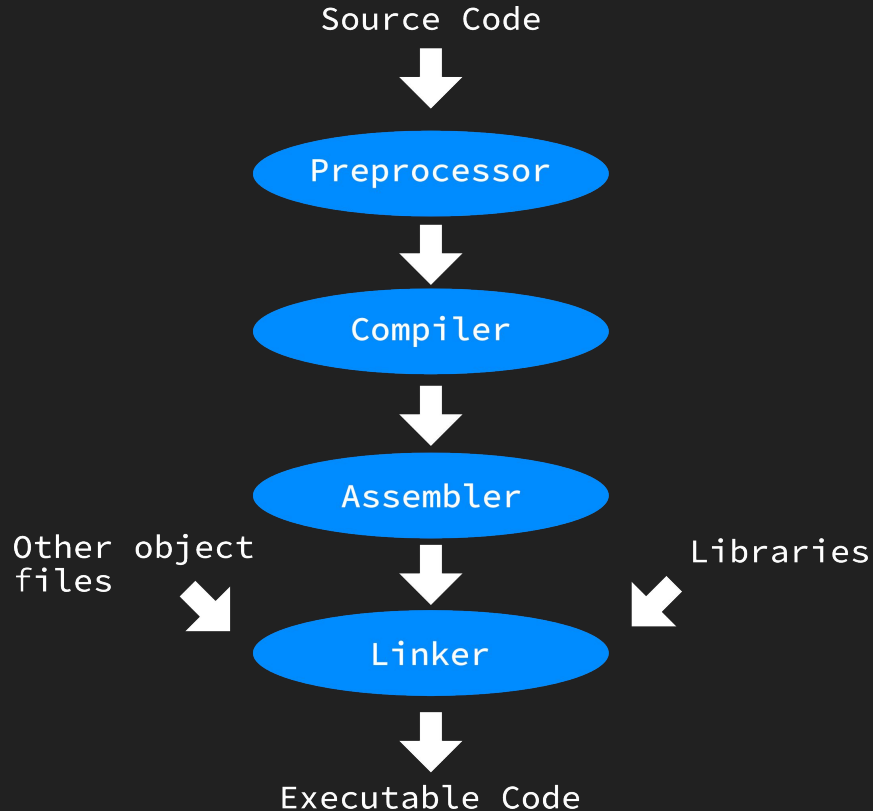
- >> Looking at the code and the metadata of the file

- Dynamic

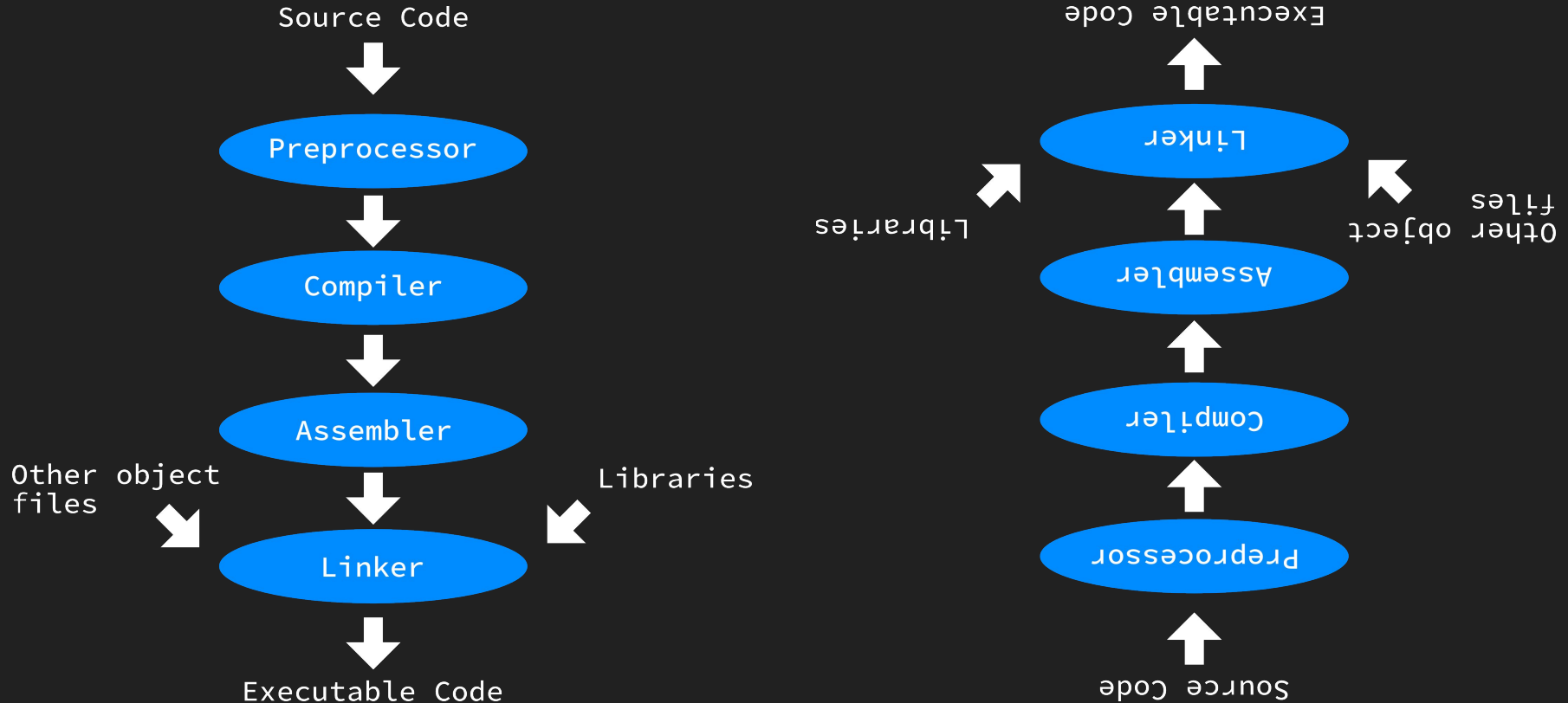
- Running the program

- >> “Letting it run loose and see what it does (or doesn’t do)”

# Compilation and Decompileation



# Compilation and Decompile



# Sources

- <https://enterprise.comodo.com/forensic-analysis/malware-analysis-types.php>
  - Be weary that normally, static analysis does really get into debuggers since that is more dynamic. Because debuggers normally require running a program.

**LIVE DEMO TIME**