

Welcome to COMP122

Dr. Steven Fitzgerald

“Steve”

Attendance and Feedback System

- For the first two weeks of class, attendance will be taken for administrative purposes.
- Students who do not attend classes during the first two weeks are subject to administrative withdrawal.
- You are responsible for using the feedback system to record your attendance during the first two weeks of class you have attended class via the following link:

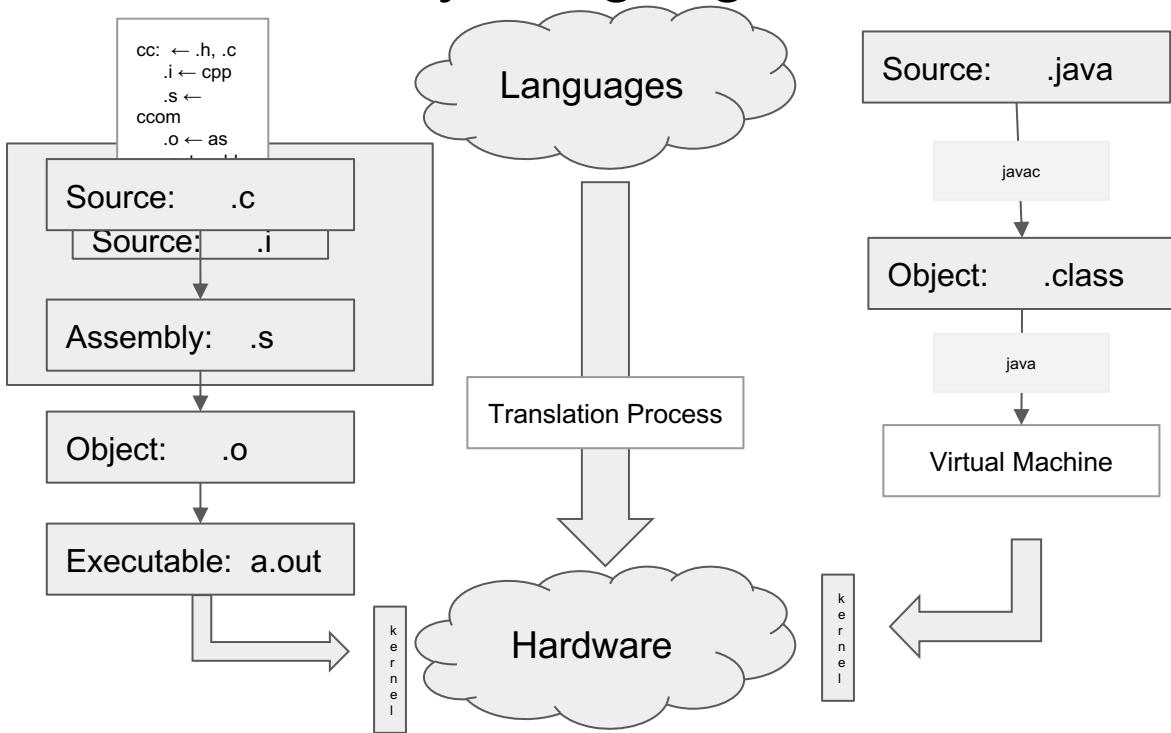
[Feedback System](https://catalog.csun.edu/policies/attendance-class-attendance/)

Class Notes:

- Today's notes: `~/classes/comp122/administrative/notes_08_28.md`
- These are my notes, but I share!
- I make mistakes – all the time – but I take steps to fix them
 - ~~“Perfection~~ Continual Improvement is the Goal.”
 - “Release Early and Release Often”
 - Be Coachable: that is to say “embrace feedback”.
- Use of Markdown
 - Why?
 - Where?
 - Practice!
 - Markdown Viewer!

Computer Architecture and Assembly Language

- Languages
 - Domain Specific
- Compilers & Interpreters
 - Analysis
 - lexicographic
 - syntax
 - semantic
 - Language Optimization
 - Machine Optimization
 - Translation: TAC → MIPS
- Hardware
 - General Types: Registers / Stack
 - Specific CPU Controls
- CLI: compilation exercise



In the context of: Languages, Compilers, and Hardware

Now What?

(see [administrative/notes_08_26.md](#))

- Classroom Management
- Purpose of this course
 - Not just about assembly language programming nor computer architecture .
- Philosophy
 - On my emphasis in teaching this class

Quick Overview of Tools used in COMP122

- The missing semester: <https://missing.csail.mit.edu/>
 - The shell, shell tools and scripting, and the command line environment
 - Editors (subl) [Sublime Text]
 - Version Control (git)
 - Command Line Interface (CLI) via bash shell
 - Sublime Text
 - One Markdown
 - Git with the GitHub Product: (<https://github.com/COMP122>)
 - Make
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- STH (simple testing harness): (<https://github.com/smf-steve/sth>)
 - MARS: (<http://courses.missouristate.edu/KenVollmar/MARS/index.htm>)
 - mips_subroutine: https://github.com/smf-steve/mips_subroutine

Slack: <https://slack.com>

- General Description:
- Purpose: Our primary off-line communication tool.
- Team: comp122-csun.slack.com
- Channel: #fitzgerald-f24
- Walk Through and Usage:
 - Review previous messages before posting a new message
 - Create a **Thread** for each topic/issue
 - Create Actionable messages verses "Thanks for sharing" messages
 - Write a message from the point of view of the receiver!
 - Images versus **Text Snippets**
 - Pin important information
 - Edit messages (we all make mistakes... but fix them.)
 - Markdown

Administrivia

- Syllabus and Class Material

- <https://github.com/COMP122/comp122-f24/blob/main/syllabus.md>
- ~/classes/comp122/syllabus.md

- The Setup Process (i.e., Assignment #1)

- <https://github.com/COMP122/comp122-f24/blob/main/setup.md>
- ~/classes/comp122/setup.md

- Assignments:

- <https://github.com/COMP122/comp122-f24/blob/main/assignments.md>
- ~/classes/comp122/deliverables/assignments.md
- Assignment #2:
 - See ~/classes/comp122/deliverables/assignments.md