## Resources:

```
- Course Site: ucsb-cs16.github.io/f22/
```

- Piazza: piazza.com/class/18dc72uzoa52u/

- **ZyBooks:** learn.zybooks.com/library

- Gauchospace: gauchospace.ucsb.edu/courses/course/view.php?id=31878

- My Office Hours: Tuesday 9:30 - 10:30 AM, Henley 2002 or Zoom

## Key Concepts:

Warning: this list is not comprehensive!

- Comments: //, /\* \*/
- Syntax vs Semantics: Compile-Time vs Logic Errors
- **Programs:** Application, High-Level Language, Assembly Language, Machine Instruction, Compiler
- Parts of a Computer: I/O Devices, Storage, Memory, Processor, Clock
- Basic Input and Output: <iostream>, cin, cout
- Valid Identifiers & Reserved Words
- Data Types: int, double, char, string, auto
- Type Casting: static cast<int>, static cast<double>
- Constants
- Arithmetic Operators: +, -, \*, /, %
- Integer vs Floating-Point Division
- Order of Precedence: ( ), unary -, \* / %, + -, =
- Math Functions: sqrt(), pow(), fabs()
- Binary vs Base 10
- Random Numbers: rand()