

# 3 categories of programming languages:

## Machine

- ↳ binary  
(0s and 1s)
- ↳ controls logic gates
- ↳ fundamentals of computers - tells comp what to do

## Assembly

- low-level language
- ↳ created early days of programming
- ↳ uses mnemonics - descriptive words  
(add, sub, mult)  
add 2, 3, result
- ↳ assembler - converts assembly to binary

## High-level

- ↳ 1950s
- ↳ platform independent
- ↳ English-like
- ↳ statement = instruction
- ↳ source program/code
- ↳ interpreter - converts  
1 line at a time
- ↳ compiler - converts whole program

# Anatomy of Java

↳ filename will match classname (Welcome.java)

Keywords - reserved  
for language

public class Welcome {

main method =  
executable

→ public static void main (Strings [] args) {

Prints to  
console

← System.out.println("Hello World");

↳ prints w/ new line

↳ System.out.print()  
does not

Statement  
ends with  
semi colon

Class  
block

method  
block

# Code Documentation / Comments

3 types:

↳ single line (//)

↳ multi-line or paragraph (/\* ... \*/)

↳ JavaDoc (will discuss Q3)

Program should start w/ multiline comment

/\*

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Description:

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last edited:  
optional