

CMSC 131

Fall 2018



Announcements

- Many new students...
 - Class webpage
 - Copy someone's notes
- First project (Hello World) is now due Wednesday 9/12

Announcements

Maryland Center for Women in Computing (MCWIC) "Welcome to Computing" Event

TONIGHT (9/5) from 6:00-7:30pm, CSIC 3117

All women currently enrolled in CMSC 131 and 132 are invited.

Free Tutoring (from MCWIC)

Open to EVERYONE

 1 on 1 tutoring by appointment: http://go.umd.edu/TutorRequest

 Guided Study Sessions (CMSC 131) Mondays 2:00 – 3:00 Tuesdays 1:00 – 2:00

Computer Systems Overview (Software) (This slide was supposed to be earlier!)

- Applications
- Operating system
 - Process management
 - Memory management
 - Primitive I/O
 - Windowing
 - Network control
 - Security

Example: SimpleProgram.java

Things to observe:

- We are looking at a class called "SimpleProgram"
- There is just one method, called main
- The main method contains a few statements
- There are two kinds of "comments"
- Most statements end with semi-colons
- System.out.print is a primitive tool for text output
 - Note the difference in print vs. println

Example: VariablesExample.java

Things to observe:

- Two "local" variables are declared (their type is "int")
- The "assignment operator" stores values inside the variables
- Memory diagram (at the end):



Variable Types

- Primitives (basic "atoms")
- References to Objects (later)

Primitive Types (Whole Numbers First)

 An int variable takes up 4 bytes of memory. What range of values can be stored?

Туре	Memory used	Range of values that can be stored
long	8 bytes	-9,223,372,036,854,775,808 to
		9,223,3/2,036,854,//5,80/
int	4 bytes	-2,147,483,648 to 2,147,483,647
short	2 bytes	-32,768 to 32,767
byte	1 byte	-128 to 127