Welcome to CS 61BL LAB 1 !!!!

Lab 111
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These slides are available at rpurp.com

Announcements

* Project 0 (The Enigma) is released! It is a solo project and is due on Friday.

* Presemester survey due Friday for one point of extra credit

* Quiz on Friday in lab

Who we are

* Hi, I'm Ryan!

    * Year: Rising junior

    * Major: EECS

    * From: Anaheim, CA

    * Hobbies: programming (of course), listening to podcasts, listening to music, cooking, and more

* Tutor and AI introductions

Who you are
(Ice breaker)

* Name, preferred name

* Year

* Major

* Where you're from

* What have you done so far this summer break

Logistics

* This is a lab-centric class!

    * You will do the bulk of your learning here.

* Labs are due 22 hours after the beginning of the lab

* Specific to this lab: 10am-1pm on Monday, 11am-2pm T/Th/F

* This class moves **fast**, especially over summer. We're here to help!

More Logistics

* You will have 8 (probably: not 100% finalized) lab slip days

  * You can use one on a lab to extend the deadline by 24 hours (can't use more than one on the same lab)

* No slip days for projects

* Worksheets on M,T,&Th (due at end of given lab), Quiz on Friday (no worksheet today)

Partnerships

* Collaboration is at the heart of computer science!

* The labs and (most of) projects are to be completed with partners

* The first week, you *must* have a new partner every day!

* Afterwards, you can pair up with whoever you like

Git

* Git is a Version Control System (VCS) that stores the entire history of a project into a Git Repository

* It keeps track of changes to files in snapshots called "commits"

    * It's up to you to tell git which files to track and to make commits.

* One of the most useful aspects of Git is the ability to interact with remote repositories, which is essential to

* Much more + how to use covered in the lab!

Java Demo

All code exists in a class

The entry point to a Java program

Required semicolons

( ) & { } for if

Explicit type declarations* (see here for completeness)

```java
public class Hello {
    public static void main(String[] args) {
        System.out.println("hello world!");

        int year = 2019;

        if (year >= 2000) {
            System.out.println("We survived Y2K");
        } else {
            System.out.println(
                        "The year is " + year);
        }
    }
}
```

Java Conventions aka how to get not yelled at during a code review

* Variable & method names are **camelCased**

* Class names are **CapitalCamelCased**

* Constants are **ALL_CAPS**

* Indenting is not required for the compiler, but anyone who doesn't indent their code is a monster

Lab Tips!

* Find the lab at https://cs61bl.org/su19/labs/lab01/

* Make sure to read the Using Git guide! (linked in the lab)

* Make sure you carefully follow the instructions when using the Beacon system to create your repository in Github!

* Don't make nested Git repos (i.e. do the Git exercise in the lab in a separate folder)

* When you are ready for checkoff, please write your name on the board