

Welcome to CS 61BL

LAB 1!!!!

Lab 111

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These slides are available at rpurp.com

Announcements

- * Project 0 (The Enigma) will be released by the end of today! It is a solo project and is due on Saturday 6/29 at 11:59pm.
- * 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 4 lab slip days (1 released every 2 weeks)
 - * 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)
 - * This is how we take attendance!

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 for this class
- * Much more + how to use covered in the lab!

Java Demo

All code exists
in a class

The entry point to
a Java program

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

```
int year = 2019;
```

Required semicolons

() & {} for if

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

Explicit type declarations*
(see [here](#) for completeness)

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