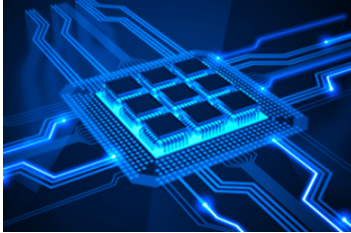
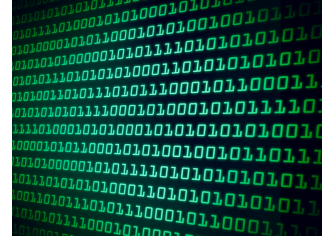


## CSCI 2330 FOUNDATIONS OF COMPUTER SYSTEMS



Sean Barker  
Bowdoin College



Department of Computer Science

## The Big Question

How does a program execute?

```
/**
 * Simple HelloButton() method.
 * @version 1.0
 * @author john doe <doe.j@example.com>
 */
HelloButton()
{
    JButton hello = new JButton( "Hello, wor
hello.addActionListener( new HelloBtnList

    // use the JFrame type until support for t
    // new component is finished
    JFrame frame = new JFrame( "Hello Button"
    Container pane = frame.getContentPane();
    pane.add( hello );
    frame.pack();
    frame.show();           // display the fra
}
```



# Abstractions



## Personnel and Resources

Instructor: Sean Barker

Email: [sbarker@bowdoin.edu](mailto:sbarker@bowdoin.edu)

Office: Searles 220

Office Hours **TBA** (or by appointment)

Learning Assistants (LAs):

Lilly Armstrong

Braden Fisher

Joshua Lin

Nhi Nguyen

Email **Slack** for discussions/questions/info...

**Welcome Survey** on Blackboard

# Course Components

Labs (~6)

Exams (2)

Attendance and engagement

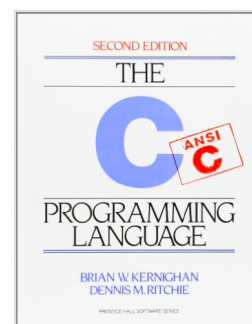
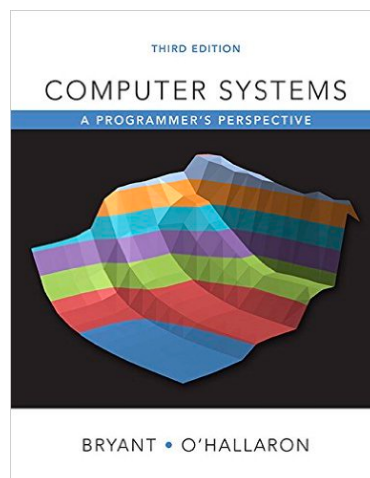
Expectations

# Other Administrivia

Class meeting times

Laptops

Textbooks



Collaboration policy and honor code

# Course Website

Course website: [bowdoin.edu/~sbarker/2330](http://bowdoin.edu/~sbarker/2330)

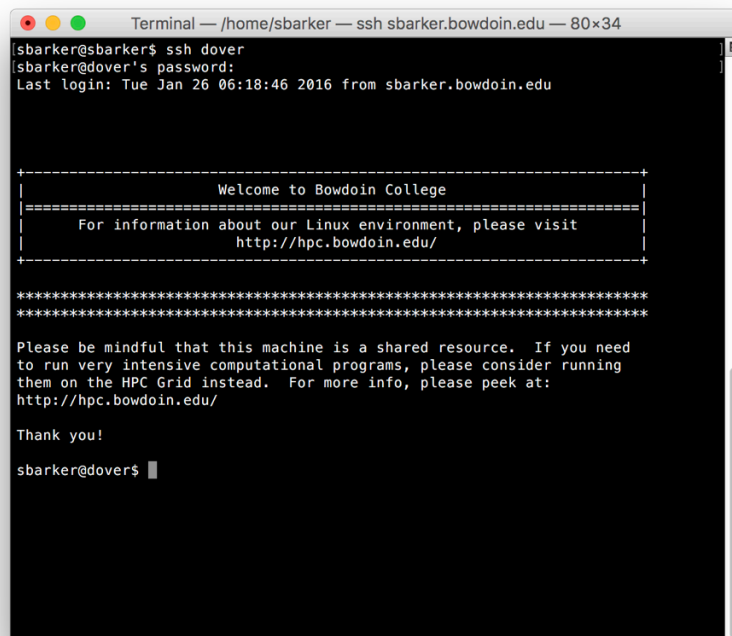
Syllabus

Schedule

Assignments

Feedback (anonymous)

## Lab 0: Unix Toolbox



```
Terminal — /home/sbarker — ssh sbarker.bowdoin.edu — 80x34
sbarker@sbarker$ ssh dover
sbarker@dover's password:
Last login: Tue Jan 26 06:18:46 2016 from sbarker.bowdoin.edu

+-----+
|               Welcome to Bowdoin College               |
+-----+
| For information about our Linux environment, please visit |
|               http://hpc.bowdoin.edu/                   |
+-----+

*****
*****

Please be mindful that this machine is a shared resource.  If you need
to run very intensive computational programs, please consider running
them on the HPC Grid instead.  For more info, please peek at:
http://hpc.bowdoin.edu/

Thank you!

sbarker@dover$ █
```

# System Layers

```
#include <stdio.h>

int main() {
    printf("Hello, World!\n");
    return 0;
}
```