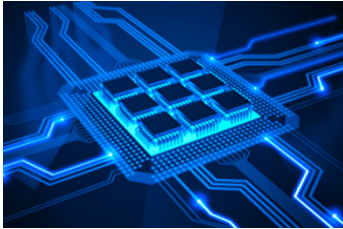
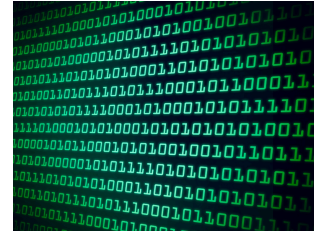


CSCI 2330 FOUNDATIONS OF COMPUTER SYSTEMS



Sean Barker
Bowdoin College

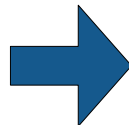


Department of Computer Science

The Big Question

How does a program run?

```
/**  
 * 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  
}
```



Abstraction

Abstractions are great...



But they leak!

Personnel and Resources

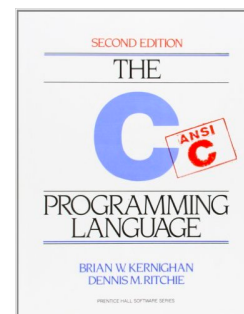
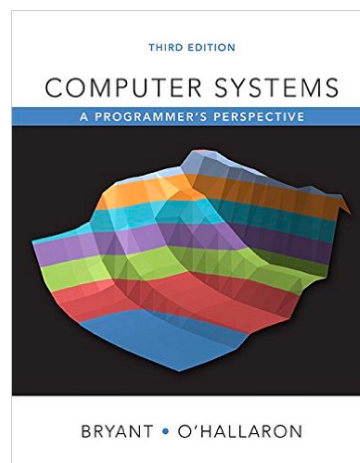
- Instructor: Sean Barker
- Email: sbarker@bowdoin.edu
- Office: Searles 220
 - Office hours: Tues/Thurs 1:30-3, Fri 12-2 (or by appt)
- TAs:
 - Bolor Jagdagdorj
 - James Little
 - Pauline Unietis
- Piazza Q&A forum

Course Components

- Labs (~6)
- Exams (2)
- Attendance and engagement
- Expectations

Other Administrivia

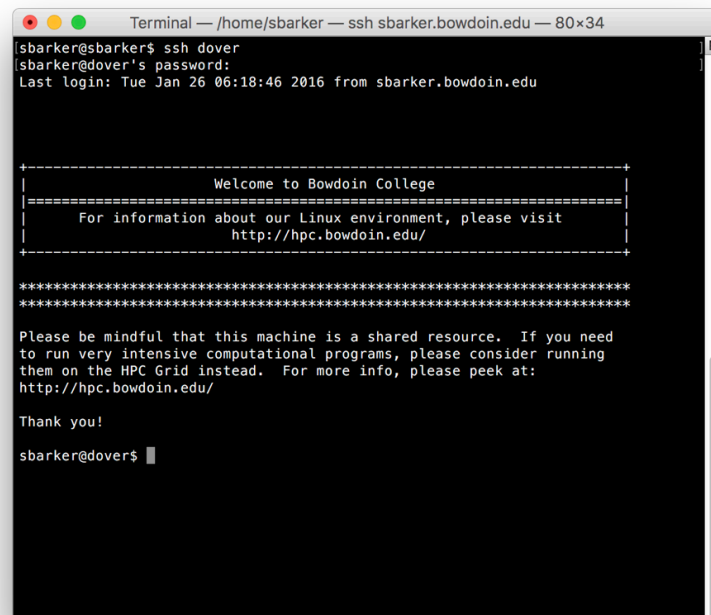
- Class meeting times
- Textbooks
- Collaboration policy and honor code



Go here!

- Course web page:
<http://www.bowdoin.edu/~sbarker/2330>

Lab 0: Unix Warmup



```
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;
}
```