Announcements

• First project (Hello World) has been posted. If you’re stuck, come to office hours
• No classes Monday (Labor Day)
• Lab session on Tuesday is “extended office hours”.
• Slides are being posted on class web page (“Schedule”)
Programming Languages

• What is “Machine Language”?
  Example:
  \[10000011\ 10100000\ 01100100\]
  “Add the value 100 to register EAX”

• What is “Assembly Language”?
  Example:
  ADD EAX, 100
Continue: Higher Level Languages

Some “historically interesting” languages:

- Fortran
- Cobol
- Lisp
- Pascal
- C
- C++
- Java
- Python
- Ruby
Translating High Level Code to Machine Code

• Compiler
• Interpreter
• How does Java do it?
Why Java for CMSC131?

• Popularity in industry
• Designed for “Object Oriented” approach
• Portable
• Extensive and modern libraries
• Good for beginners
  • Static typing
  • garbage collection
  • Not too many “sharp edges”
Preliminary Remarks

- All coding examples will be posted to your CVS repository
- Initial examples are “procedurally oriented” not “object oriented”
- We’re going to start very slowly!
- We will have to leave out some details at first.
- Don’t be afraid to try “experiments” on your own!
Vague Definitions (for now...)

First, let’s loosely define these terms:

- Object
- Class
- Method
  - Main method
- Statements