

Who am I?

Contact Info

Name: Albert Wong
Office Hours: No official ones
E-mail: awong@cs.washington.edu

Background

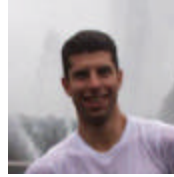
- Senior, Computer Engineering
- 7 years experience in C, 4 years in C++

Interests

- Piano, Japanese Animation
- Software Design, Systems, Programming Languages
- Go, bughouse, video games, axlototes



Instructors



Brian C. Tjaden
tjaden@cs.washington.edu



Hannah C. Tang
hctang@cs.washington.edu

Me



Albert J. Wong
awong@cs.washington.edu

Not Me



Albert S. Wong
albertw@cs.washington.edu

What is this course about?

- **Data Structures and Algorithms**
 - Ways to represent data
 - Actions to perform over data representations
 - Algorithm analysis
 - Algorithm/Data structure design
- **Design Tradeoffs**
 - Speed versus memory
 - Readability versus features
 - Java versus C++
- **Java and C++** (*not the main focus*)
 - Intermediate/advanced Language syntax and concepts
 - Concept bleeding between languages
- **Unix** (*not the main focus*)
 - Basic code development skills
 - Experience with a different operating system



Books

- Design Patterns*. Erich Gamma et al. Addison-Wesley 1995, 395 pgs.
- Essential C++ (C++ In-Depth Series)*, Stanley B. Lippman, Addison-Wesley 1999, 304 pgs.
- The C++ Primer*. 3rd edition, Stanley B. Lippman, Addison-Wesley 1998, 1237 pgs.
- Effective C++*, 2nd edition, Scott Meyers, Addison-Wesley 1997, 304 pgs.
- The C++ Language*, 2nd Edition, Bjarne Stroustrup, Addison-Wesley 2000, 1019 pgs.
- Modern C++ Design: Generic Programming and Design Patterns Applied*. Andre Alexandrescu. Addison-Wesley 2001, 352 pgs.
- Core Java 2, Volumes 1 and 2*. 5th edition, Cay S. Horstmann, Gary Cornell., Prentice Hall 2000, ~800 pgs.
- Java in a Nutshell*. David Flanagan. O'Reilly 2002, 992 pgs.



Logistics

- **Supported Compilers**

- gcc-3.0.4
- Sun jdk-1.3.1

- **Tools/Resources specifically frowned upon**

- BlueJ
- Visual C++
- Visual J++
- MSDN C++ documentation

If you decide to use any of the "frowned upon" tools, the course staff may not be able to help you.

Also, any problems in your code that results from using these tools for development **will not be excused**.

- **Weiss's books**

- good for concepts
- bad for code...very bad for code.