



JavaWIDE: Innovation in an Online IDE

A Tutorial for CCSC Mid South
4:00-5:30pm, March 25, 2010



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Motivation

- Collaboration
 - Concurrent editing, wiki
- Easy Set up
 - Zero install, web-based interface
- Sharing
 - Auto-post programs, social network enabled
- Pedagogical
 - Easy to use, integrated api/tutorials

History of JavaWIDE

- First Prototype: December 2007
- First College Class: January 2008
- First Used in India: Summer 2008
- First Online Course: Summer 2009
- First High School Adoption: August 2009
- Concurrent Editing: November 2009

Hello JavaWIDE!

1. In a web browser, go to:
sandbox.javawide.org/index.php/AppletIDE
2. Login – no password needed, just enter your name
3. Click on Generate->Application
4. Save then Run



Concurrent Editing Teaching Tips

1. Ask students to follow you.
2. Practice using it on the first day of class.
3. Ask/Answer/Ask/Test
 1. Teacher asks question
 2. Student answers
 3. Teacher asks student to edit code
 4. Everyone tests code.

Concurrent Editing Teaching Tips

4. Group Class Program – each student writes a different part, all at the same time.
5. Student asks what-if question, teacher asks student to edit code, try it out.
6. Encourage small group work in class – one source file, two or more editors.

Adoption Experience

- New to Georgia Gwinnett College
- Experienced teaching
Intro to Programming
- Previously used client-based IDE
- Looking for
 - Easy to use
 - East to setup
 - Maximize time for teaching



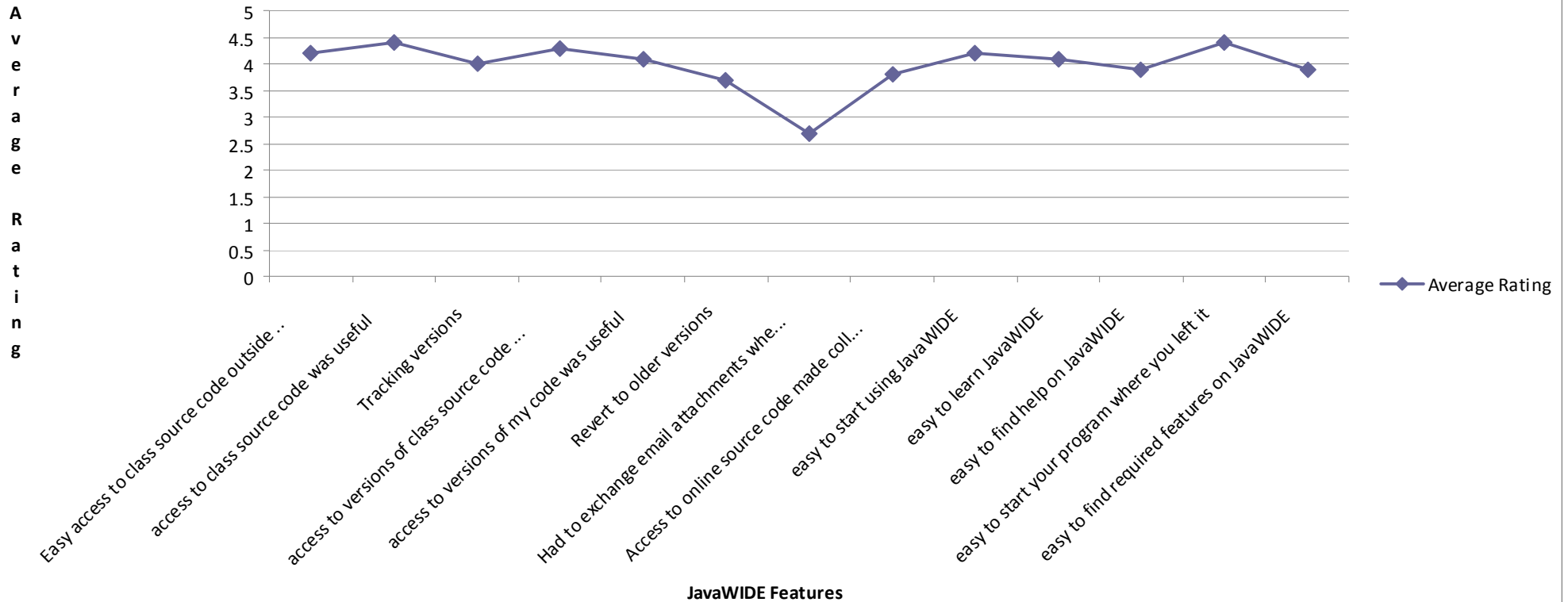
Fall 2009 Survey Results

- Demographics:
 - 30 students
 - 60% IT majors
 - Positive attitudes towards computers and programming
 - Average 4.3 (1-5 scale)
 - Self reported Java proficiency: 2.2 (1-4 scale)



JavaWIDE Features

Average Rating



Student Comments on JavaWIDE

- User-friendly, easy to get started and get help
- convenient to use (browser-based), and it contains Java API that comes in to be extremely handy.
- It has concurrent editing. It is THE FUTURE!



Future Directions

- Remote Tutoring
- Online Courses
- Android/Facebook
- Jython
- Video Tutorials

