Who is Dossy Shiobara?

• Over 15 years of software engineering and system administration experience
• Organizer of the Northern NJ MySQL Meetup
• Leads the AOLserver open source project
• I talk quickly when I’m nervous, slow me down!
Agenda

• What is an IDE?
• What is Eclipse?
• How do I get Eclipse?
• Hello, Cruel World!
• Meet the Debugger
• Questions & Answers
What is an IDE?

• **Integrated Development Environment**
  – Language-aware editor (syntax highlighting, completion, etc.)
  – Integrated compiler and source code management
  – Refactoring support, automated test integration, runtime debugging
What is Eclipse?

- Java application
- IDE framework extended through plugin architecture (JDT, PDT, CDT, etc.)
- Much more than just an IDE
- Open source through the Eclipse Foundation, licensed with the Eclipse Public License (EPL)
How do I get Eclipse?

- [http://download.eclipse.org/eclipse/downloads](http://download.eclipse.org/eclipse/downloads)
- Current release: 3.2.1
- Requires Java JDK 1.4.2 or higher (not included!)
- Builds available for: Windows, Linux, Solaris, AIX, HP-UX, MacOS X
Welcome to Eclipse
Hello, world!

- Familiar “Hello, world!” example
- Demonstrates simple Java application
  - Language-aware editor
  - Integrated compiler, Java console, etc.
Was that so hard?

```java
public class HelloWorldApp {
    public static void main(String[] args) {
        System.out.println("Hello, world!");
    }
}
```
Meet the Debugger
Let’s write some bugs!

- Division by zero \((x / 0)\)
- Set a breakpoint and single-step through code
- Inspect some variables
- Hotswap Bug Fixing: using the Java Platform Debugger Architecture (JPDA) to modify code at runtime. (JVM 1.4+)
Questions?
Thank you!

Slides available at http://dossy.org/