

Eclipse

Not yo mama's Java IDE

www.eclipse.org

Schedule

- Introduction to Eclipse
- Q&A

What is Eclipse?

- **Eclipse is open source software from IBM**

first

Questions?

- Thank you

last

The End

Schedule, for real

- **Religious framewar disclaimer**
- **Background and history**
- **Architecture and core concepts**
- **Productivity boosters**
- **Demo**
- **References, Q&A**

But first...

- **What is Eclipse?**

Eclipse is NOT a Java IDE

- **Universal tool platform**
 - **“An open extensible IDE for anything and nothing in particular”**
- **Intelligent plugin manager**
- **Cross-platform rich client platform**

Schedule

- ➔ ● **Religious framewar disclaimer**
- **Background and history**
- **Architecture and core concepts**
- **Productivity boosters**
- **Demo**
- **References, Q&A**

Why Eclipse?

- **Tried Eclipse before learning Java**
- **No background for qualitative comparison with NetBeans**
- **So...**
 - **This is what Eclipse offers, plain and simple**

Schedule

- Religious framework disclaimer
- ➔ ● Background and history
- Architecture and core concepts
- Productivity boosters
- Demo
- References, Q&A

Whence Eclipse?

- **Began in 1999 at IBM OTI (Object Technology Intl.)**
 - **Successor to VisualAge**
- **Open sourced (CPL) in 2001**
- **Eclipse Foundation (non-profit) in 2004**

Schedule

- Religious framework disclaimer
- Background and history
- ➔ ● Architecture and core concepts
- Productivity boosters
- Demo
- References, Q&A

How Eclipse?

- **Java, SWT/JFace**
- **Eclipse Runtime Platform**
- ***EVERYTHING ELSE*** is a plugin
 - **JDT, CDT, PDE, WTP**
 - **EMF, GEF, VE, UML, SDO, XSD, etc.**
 - **Configurable, customizable**

How Eclipse? (cont.)

- **Workspace**
 - **Projects**
 - **Workbench**
 - **Perspectives**
 - **Views, editors**

Schedule

- Religious framework disclaimer
- Background and history
- Architecture and core concepts
- ➔ ● Productivity boosters
- Demo
- References, Q&A

Typical helpers

- **Scriptable templates (comments & files)**
- **Intellisense (auto-complete)**
 - **Types, methods, variables, javadoc tags, ant tags**
- **Hovers**
 - **Definitions, values, javadocs**

Typical helpers (cont.)

- **Quick fix**
 - **Frickin' awesome!**
- **Tabbed views**
 - **Dock, tear-off, split, etc.**
- **Great search engine (Lucene?)**
- **Bookmarks, local history, etc.**

Java helpers

- **Builders**
 - **Automatically compiles in background**
 - **Java type browser (ala Smalltalk)**
 - **Organize imports**
 - **Fix indentation, auto-format**
 - **Wrap string literals on <enter>**

Java helpers (cont.)

- **Syntax-aware navigation & movement**
 - **Matching brace, next expression, etc.**
- **AspectJ**

Refactoring

- **Refactoring is a first-class activity**
- **Terrific Java refactoring browser**
 - **Context-aware refactoring catalog**
 - **Simple wizards, conservative algorithms**

Ant

- **Standard component**
- **Tightly integrated with Java perspectives**
 - **Ant view**
 - **Build file validation**
 - **Intellisense, quick fix support**

JUnit

- **Kent Beck, Erich Gamma**
- **Same level of integration as Ant**
 - **JUnit view**
 - **Automated recursive TestSuites**
 - **Last test, TestCase, TestSuite shortcuts**

CVS

- **Generic version control support**
 - **CVS by default**
- **Standard CVS integration (incl. SSH)**
- ***VERY SLICK* Team Synchronization perspective**
 - **First-class activity**

Other tools for teams

- **Export/import configurations**
 - **All settings, including projects, classpaths, and templates**
- **Automatic updates**
 - **Remote or local update sites**

Schedule

- Religious framewar disclaimer
- Background and history
- Architecture and core concepts
- Productivity boosters
- ➔ ● Demo
- References, Q&A

Demo

Schedule

- Religious framewar disclaimer
- Background and history
- Architecture and core concepts
- Productivity boosters
- Demo
- ➔ • References, Q&A

Further information

- www.eclipse.org
- **Books**
 - **Eclipse Series from Addison-Wesley**
 - **“Java Developers Guide to Eclipse”**
 - **“Eclipse” (O’Reilly)**

Further information (cont.)

- Eclipse Plugin Central
- www.eclipseplugincentral.com

Questions?

- Thank you

The End

(for real)