

# Outline Common knowledge: what is IDE 1 slide on the roots Your view, your needs Eclipse + Java and all these "Beans" AspectJ (closing lecture)

## IDE

- Integrated development environmen
- Integrated design environment
- Integrated debugging environment





### **IDE Costs**

- High development costs
- Extremely competitive market
- Solution: Make it Open Source
- Open Economy

### **IDE should:**

- Simplify (language) learning
- Assist in programming
- Navigate the programmer
- Carry out (advance) routine tasks
  - Code generation
     Declarative specifications, XDoclet
  - Static analysis

Challenging and controversial issues...

### **IDEas and key problems**

### Assist the programmer vs. replace the programmer

- Reasoning
- Modular
   Real life problems (acceptance by industry) Control and data flow
- Integration
- Too many standards too many restrictions OO restricts concern-based modular programming
- New ways to program

### IDEas and key problems (your view):

- What do you think?
- How much help would you like to have? · Help vs. machines writing code

### **IDE Examples**

- Multi language vs. Language specific
- Free vs. proprietary
- There is quite a number....
  - Eclipse
  - NetBeans
  - Xcode
  - Visual ...
  - etc.

# Eclipse

**Eclipse Foundation** 

The purpose of Eclipse Foundation Inc.,(the "Eclipse Foundation"), is to advance the creation, evolution, promotion, and support of the Eclipse Platform and to cultivate both an open source community and an ecosystem of complementary products, capabilities, and services

