

# CASE Tools Tutorial

Computer Aided Software Engineering  
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# Tutorial outline

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- Motivation
- Together Control Center
- Project Builder
- Live Demo and Exercises



# Problem

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- Lots of routine work for programmers
- Many tasks can be automated
- Several different tools in the development process (compiler, debugger, modeler)
- Forward/Reverse/Roundtrip Engineering



# Solution

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- Integrated Development Environments
  - Editor
  - Compiler
  - Debugger
  - UI Builder
- Automated code generation
- Modeling capabilities
- Roundtrip Engineering
- Version Control

The logo for ARENA, featuring the word "ARENA" in a bold, metallic, 3D-style font. The letters are dark with a lighter, reflective top surface, giving them a three-dimensional appearance. The background behind the letters is a textured, golden-brown surface that looks like wood grain or a similar natural material.

# ARENA Together Control Center

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- C++/Java applications, J2EE, Web Services, JSP frontends
- UML modeling
- Roundtrip Engineering
- UI Builder
- Debugger
- Testing framework
- Software Audits and Metrics
- Automated documentation



# Project Builder

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- Included with Mac OS X
- Wide variety of project types supported
- Cocoa, Carbon, AppleScript applications
- Debugger
- No modeling capabilities



## Live Demo

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- How to create a Project Builder project
- How to create a Together project
- Roundtrip engineering example
- Together project for all ARENA classes
- Running the Oscillator example