Building Distributed Applications

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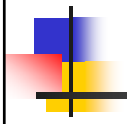


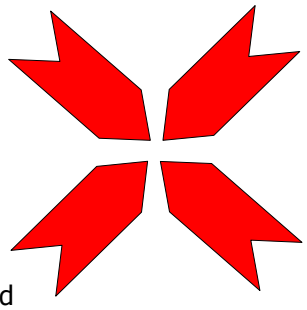
Motivation

- Real life applications are complex and rarely rely on a single technology
- The access methods, the capabilities, the goals, and the available technology is continuously changing
  - What can we learn that will remain valuable in the years to come?
- We want to separate the buzzwords from the underlying technology and gain insight into architectural principles

Business shifts

Business
- Globalization
- Deregulation
- Competition

Technology
- Power of the Web
- Pervasive computing
- Access Information



Customers
- more sophisticated
  - Complex transactions
- more demanding
  - standards, performance,
  - 24x7

Markets
- Fragmented
- Mass customization

Objectives

- What you should get out of this course
  - a basic understanding of large system architecture
  - an understanding of the technological building blocks used in the implementation of large, modern systems
  - an overview of the state of the art in middleware, C/S, B2B and EAI

Contents of the Course

- Client/Server
  - Intro & Basics
- Semantic Data Integration
  - XML-related technologies
- Middleware for comm
  - Interaction patterns
  - Messaging (MOM)
- TP Monitors
  - CORBA, OTS
  - Application Servers
- J2EE Platform
  - EJBs
- Web Services
  - WSDL, UDDI, SOAP
  - Compositions (BPEL)
- Rich Internet Apps
- EAI and B2B
  - strategies
- Applications:
  - Barcodes, RFID
  - Auto-ID/EPCglobal
  - Physical- vs Digital-world
- Summary: all in context