

Course Introduction

- Introduction
- Basics
- Structural Modeling
- Behavioral Modeling

Introduction

- History
- Common Language
- Tools

History

- **The 1970s and 1980s**
 - Largely Structured Analysis and Design
- **The Late 1980s and 1990s**
 - OOA&D
 - Multiple modeling techniques
 - No Standard
 - 1997
 - OMG – Submissions for Standard
 - Rational submitted UML 1.0
 - OMG created 'standardized' UML
 - November 1997 Rational released UML 1.1

The 3 Amigos

- **1994**

- Jim Rumbaugh joined Grady Booch at Rational

- **1995**

- Rational bought Objectory and Ivar Jacobson joined
- Self Declared Standard

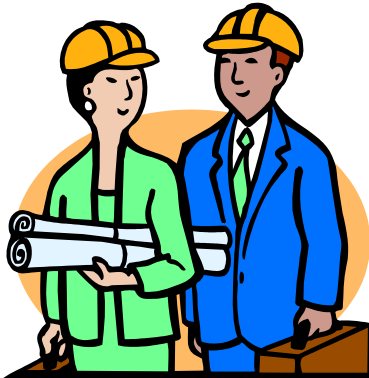
UML Today

- **Current – 2.4.1**
 - August 2011
- **Upcoming – 2.5**
 - Beta, October 2012

Communication Problems



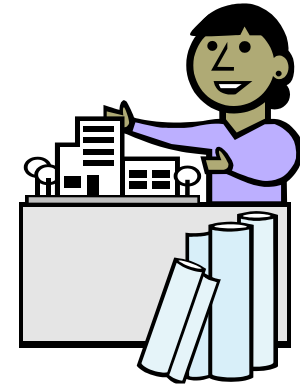
Common Users of UML Diagrams



Product Owner



Business Analyst



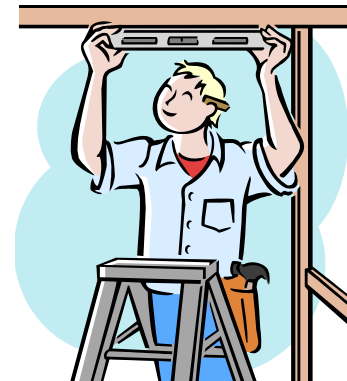
Architect



Operations



Quality Assurance



Developer

Same Thing – Different Language

Suunnittelen ohjelmisto

Ik ontwerp software

में सॉफ्टवेयर डिजाइन

Progettazione software

Ich habe design software

I design software

소프트웨어 디자인

Дизайн софтуер

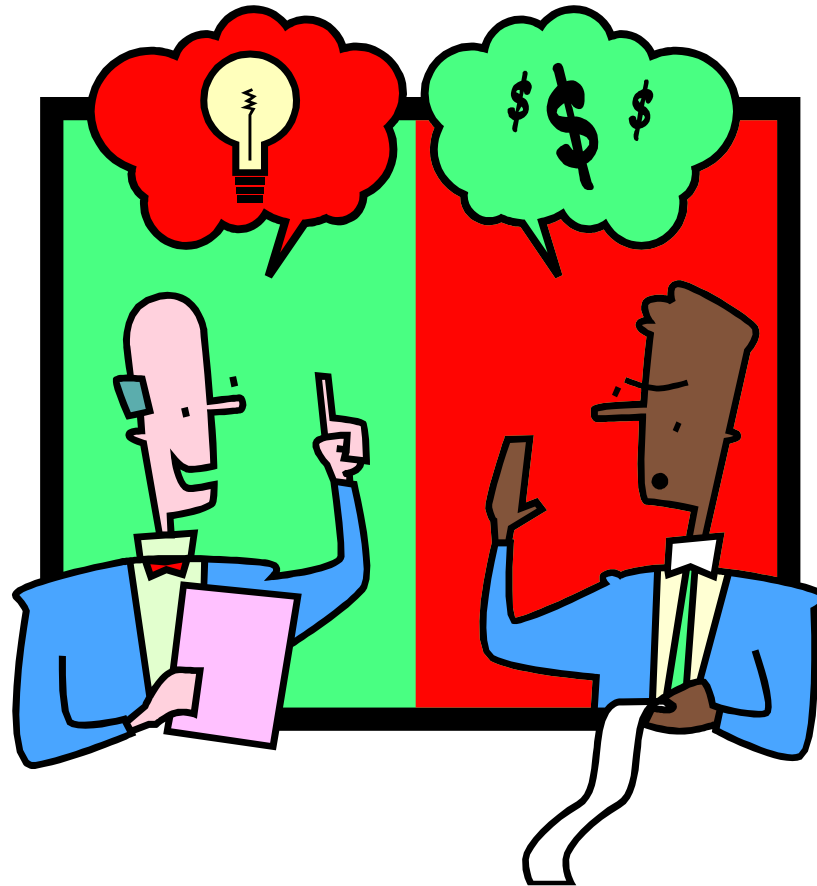
Tôi thiết kế phần mềm

Je conçois des logiciels

Diseño software

Я розробки програмного
забезпечення

Business?



Technology

A word cloud featuring various programming languages and technologies. The words are arranged in a circular pattern, with 'Technology' at the top center. The words include: Smalltalk, Lisp, Python, C/C++, XSLT, DML, Prolog, F#, JavaScript, C#, DDL, Scala, SOA, SQL, Java, Pascal, TypeScript, VB.NET, and Cobol. The words are in different sizes and orientations, creating a dynamic visual effect.

Smalltalk

Lisp

Python

C/C++

XSLT

DML

Prolog

F#

JavaScript

C#

DDL

Scala

SOA

SQL

Java

Pascal

TypeScript

VB.NET

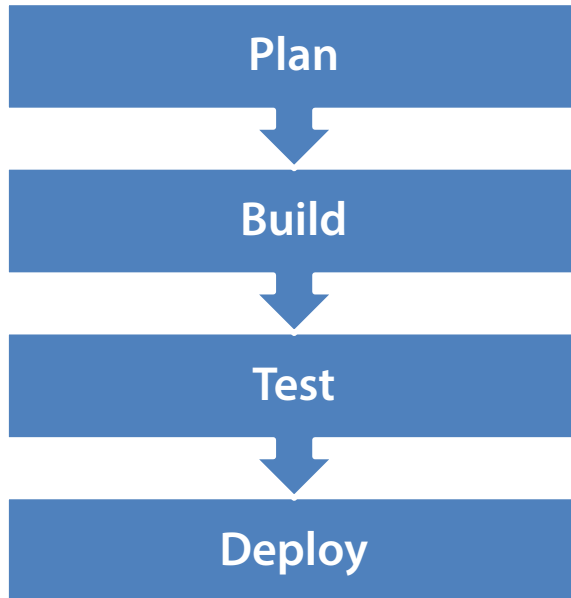
Cobol

Design Meetings

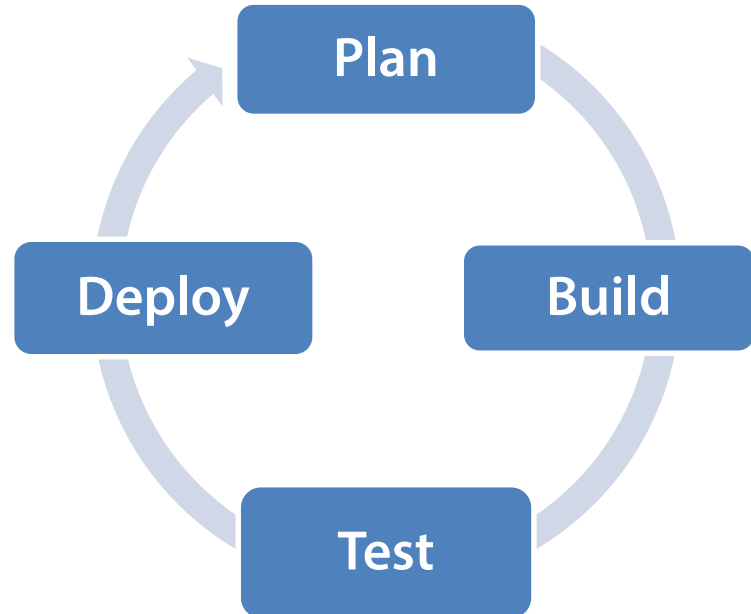


Development Methods

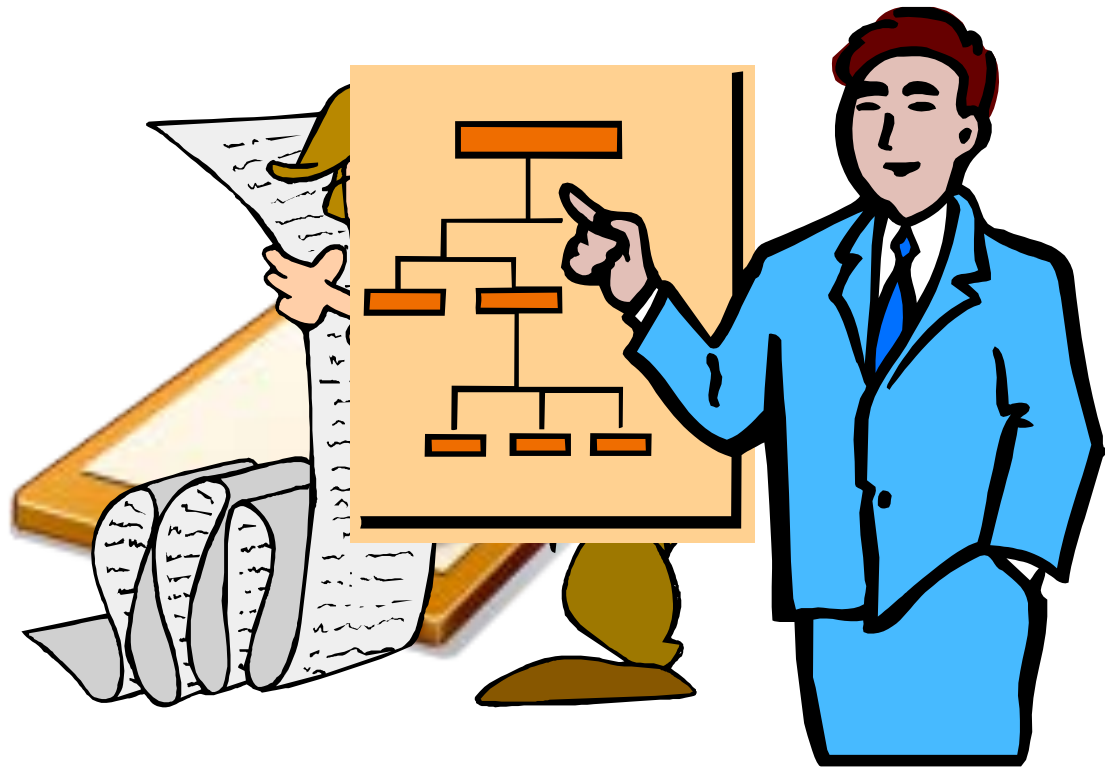
Waterfall



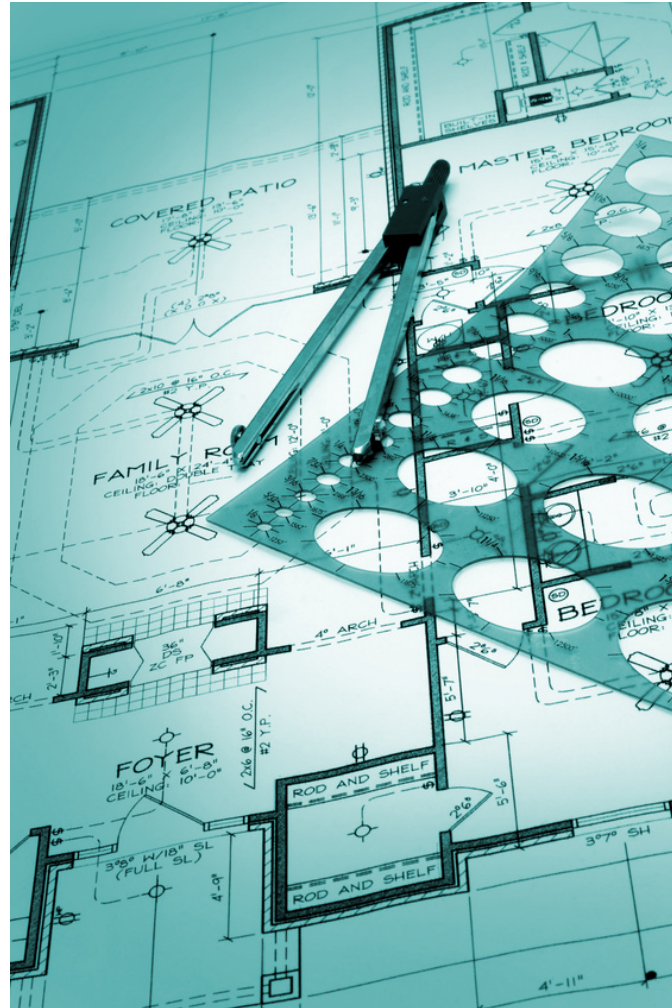
Iterative



Methods vs. Models



Formal Tools



Summary

- **UML Standard**
 - UML 2.4.1
- **Communication**
 - Precise
 - Standard
 - Common
- **Tools**
 - Formal
 - Informal