



東北大學  
Northeastern University

# 软件工程

张爽

东北大学软件学院





## 4.9 UML

---- Unified Modeling Language

# Introduction to UML

- **UML----Unified Modeling Language**
- **Three amigos**
  - **Grady Booch ---- Booch Method, 1991**
  - **James Rumbaugh ---- OMT (Object Modeling Technique), 1991**
  - **Ivar Jacobson ---- OOSE (Object-Oriented Software Engineering), 1992**



# UML History

2005

**UML 2.0**

2003.3

**UML 1.5**

2001.9

**UML 1.4**

1999.6

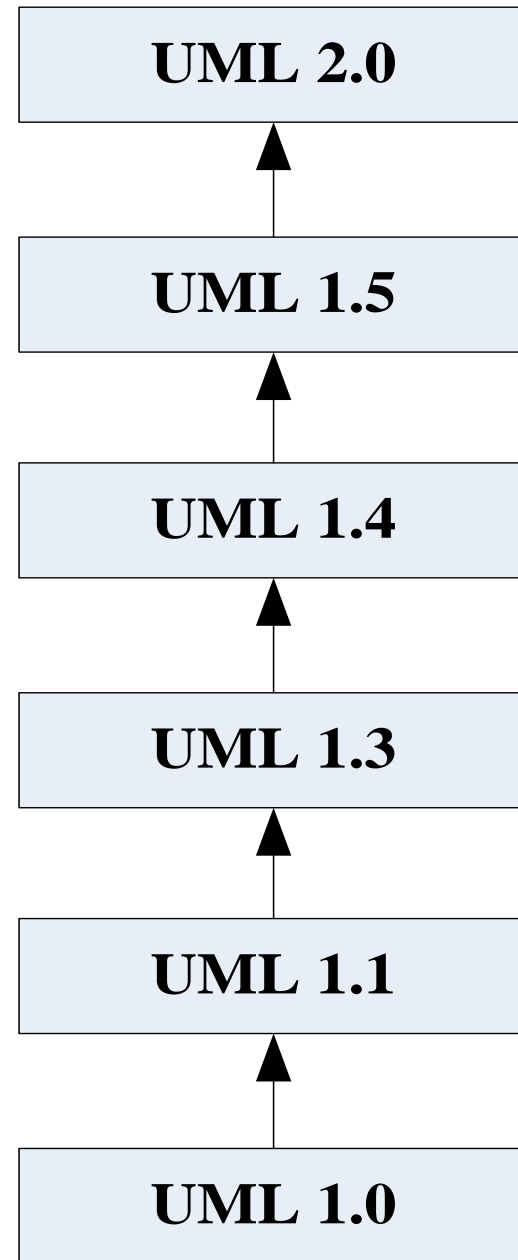
**UML 1.3**

1997.9

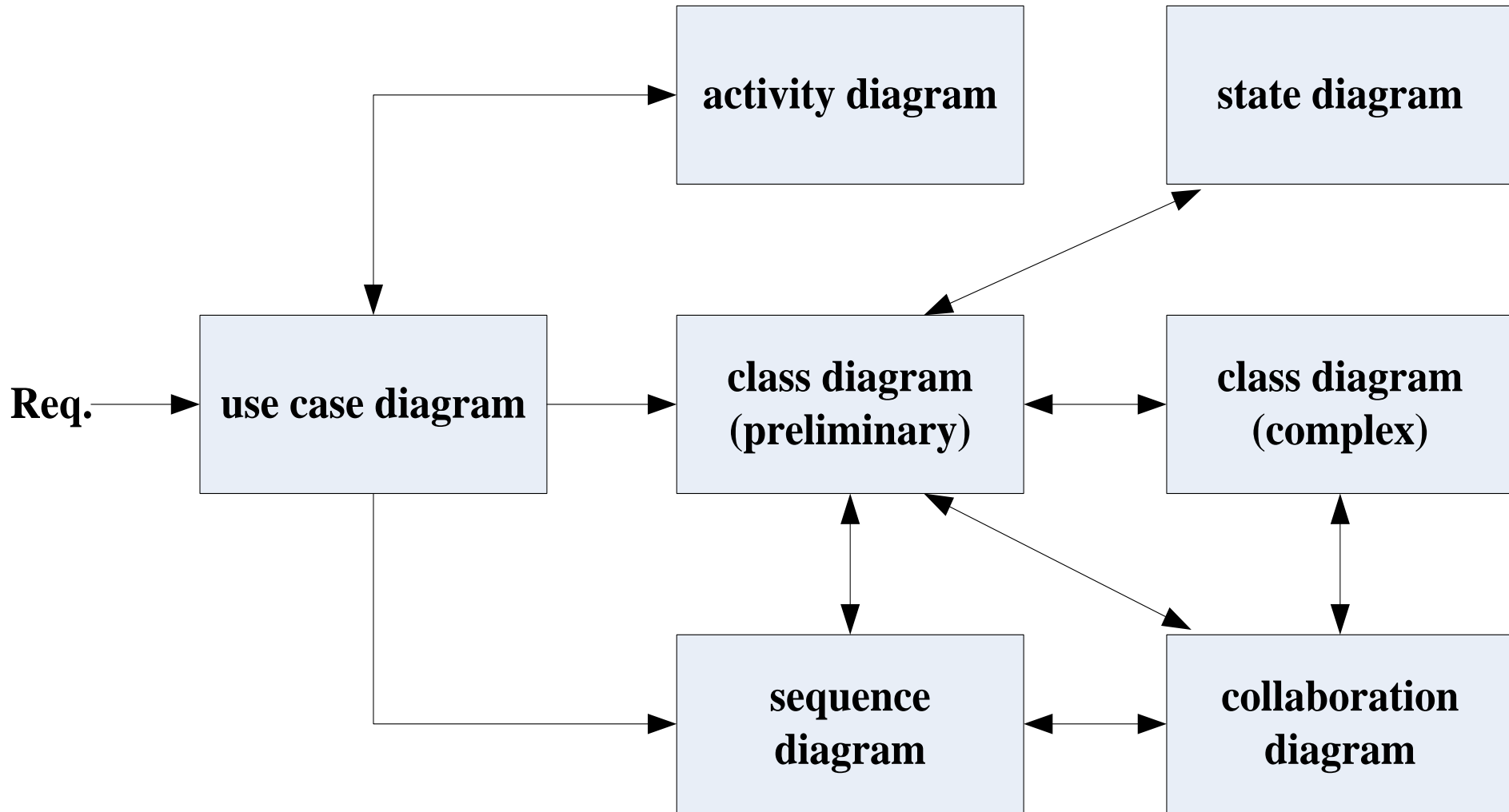
**UML 1.1**

1997.1

**UML 1.0**



# UML Diagrams



UML diagrams relationship



# UML Tools

- **Microsoft Visio**
- **IBM Rational Rose**
- **MagicDraw**
- **Together**
- **ArgoUML**
- **Clear Case**
- **RequisitePro**