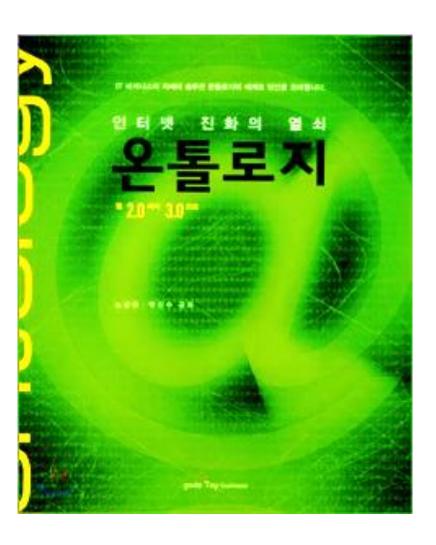
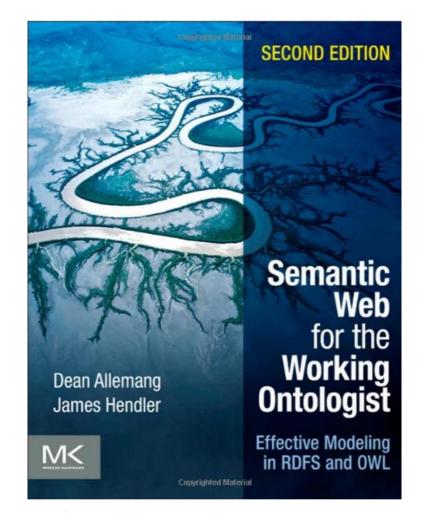
2015 Fall: Object Oriented System

- · 강사: 김형주교수, 02-880-1826, 010-5213-1992, hjk@snu.ac.kr, (연구실: 301동 406호)
- · 강의실: 301-101, 강의시간: 월수 2:00 3:15
- Office Hours: 월 (오후 3시30분 -- 5시: Email appointment is needed)
- · 조교(TA): Internet Database Lab 박사수료생 전희국, 임혜원 (<u>oota@idb.snu.ac.kr</u>, 880-1830)
- Text book: 1. Ontology (노상규, 박진수 저),
 - 2. Semantic Web for Working Ontologist 2nd ed (Allemang, Hendler 저)
- **Evaluation: 2 Exams (50%), 5 Assignment (30%), 1 Presentation (20%)**
- Class Materials: Internet Database Lab Website: http://idb.snu.ac.kr
- 카카오톡 방을 만들어서 운영할 예정!

Textbooks

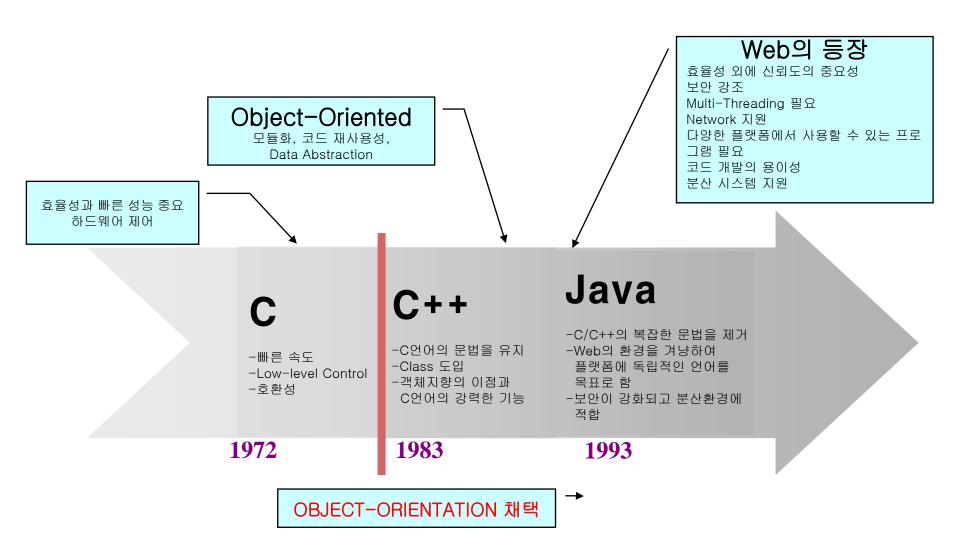




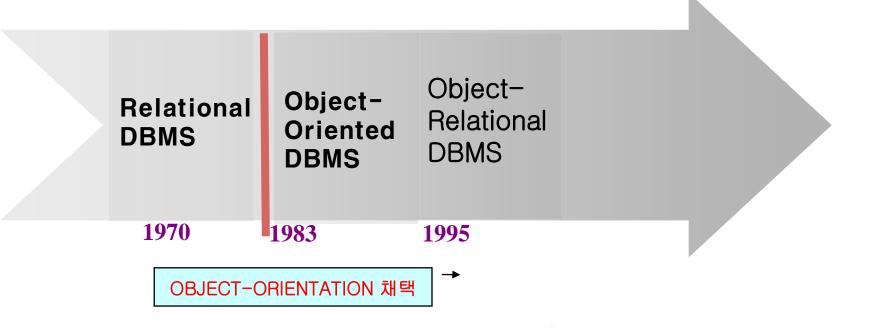
Knowledge & Semantics in Artificial Intelligence!

- 지식표현 패러다임 이론 (1970- 1980)
 - 시맨틱 네트워크(Semantic Network)
 - 프레임(Frame)
 - 규칙(Rules)
 - 일차논리(FOL: First Order Logic)
 - 기술논리(DL: Description Logic)
- Semantics을 채택 → AI이외 분야에서는 Object-Orientation으로 표현

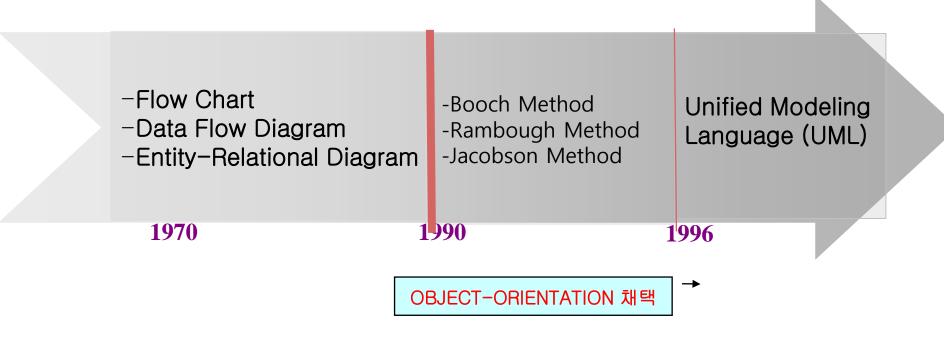
Paradigm Shift in Programming Languages!



Paradigm Shift in Database!

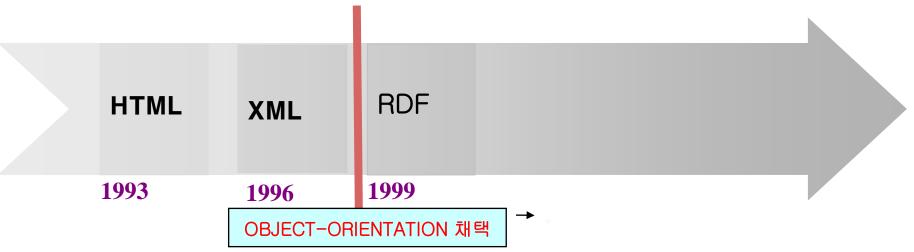


Paradigm Shift in Software Design!



Paradigm Shift in WWW!

- Semantic Web 의 등장 (2000년 전후?)
 - WWW의 확장
 - 잘 정의된 의미를 저장&제공하는 Web
 - 사람과 컴퓨터가 좀더 협력을 잘 할 수 있는 웹 (by Tim Burners Lee)
 - 정보이해력을 높여서 자동화 처리가 향상되는 웹 (Web Intelligence)
- Mark-Up Language의 진화



강의 계획

- Object-Orientation
- XML (optional?)
- 초록색 Ontology Book
- Working ontologist Book

Obejct-Oriented Programming Paragigm



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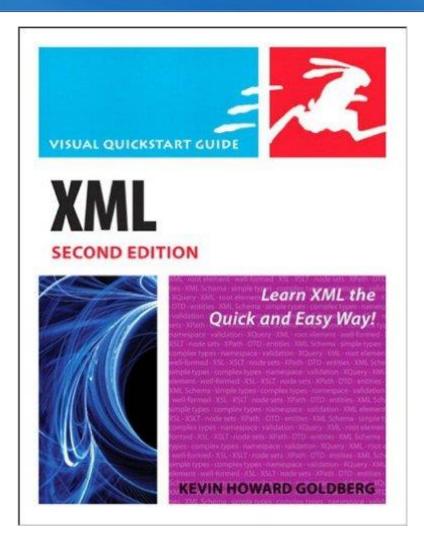
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Object-Oriented Design Jun 27, 1991 | Facalmile by Peter Coad and Edward Yourdon

XML



Textbook A

MODULE 1 온톨로지의 개념 및 응용

- Chapter 1 온톨로지 개요
 - 1. 온톨로지의 유래
 - 2. 분류와 개념화 과정
 - 3. 컴퓨터 온톨로지
- Chapter 2 온톨로지의 분류와 용도
 - 1. 온톨로지의 분류
 - 2. 온톨로지의 사용 목적과 중요성
 - 3. 온톨로지와 시맨틱 웹
- Chapter 3 온톨로지 구축 프로젝트
 - 1. 사이크(Cyc)
 - 2. 워드넷(WordNet)
 - 3. 전자거래문서
 - 4. 통합의학언어시스템
 - 5. 오픈 디렉터리 프로젝트
 - 6. 국제상품분류코드(UNSPSC)
- Chapter 4 온톨로지 적용 분야
 - 1. 전자상거래 분야
 - 2. 의료 분야
 - 3. 법률 분야
 - 4. 검색 서비스 분야
 - 5. 문화컨텐츠 분야

MODULE 2 온톨로지 언어

- Chapter 5 온톨로지 언어
 - 1. 온톨로지 언어의 발전
 - 2. 인공지능 기반의 온물
 - 3. 온톨로지 마크업 언어
- Chapter 6 RDF(S): RDF9
 - 1. XML과 RDF
 - 2. RDF
 - 3. RDF Schema
 - 4. RDF(S)의 한계점
- Chapter 7 OWL(Web Ontology Language)
 - 1. OWL의 기본 요소: 클래스와 속성
 - 2. OWL의 새로운 기능
 - 3. 세 종류의 OWL
 - 4. OWL 예제
- Chapter 8 토픽맵(Topic Maps)과 XTM(XML Topic Maps)
 - 1. 토픽맵(Topic Maps) 개념
 - 2. 토픽맵 구성요소
 - 3. XTM 예제
- Chapter 9 온톨로지 툴
 - 1. 온톨로지 툴의 분류
 - 2. 온톨로지 개발 툴
 - 3. 주요 온톨로지 툴 요약 정보



Textbook B

- Chapter 1 What is the Semantic Web?
- Chapter 2 Semantic Modeling
- Chapter 3 RDF-The Basis of the semantic Web
- **Chapter 4** Semantic Web Application Architecture
- Chapter 5 Querying the Semantic Web-SPARQL
- Chapter 6 RDF and Inferencing
- Chapter 7 RDF Schema
- Chapter 8 RDFS-Plus
- Chapter 9 Using RDFS-Plus in the Wild
- Chapter 10 SKOS-managing vocabularies with RDFS-Pluse
- Chapter 11 Basic OWL
- Chapter 12 Counting and Sets in OWL
- Chapter 13 Ontologies on the Web-putting it all together
- Chapter 14 Good and Bad Modeling Practices
- Chapter 15 Expert modeling in OWL
- Chapter 16 Conclusions

