

0301402 INTRODUCTION TO XML

UNIT	MODULES	WEIGHTAGE
1	Introduction to XML	20 %
2	Document Type Definition (DTD)	20 %
3	XML Namespace	20 %
4	XML Schema	20 %
5	Extensible StyleSheet Language (XSL)	20 %

TEXT BOOK

- XML & Related Technologies
 - Publisher : - Pearson
 - Author : - Atul Kahate
- XML Related Technologies and Programming with JAVA
 - Publisher : - PHI
 - Author : - IBM

UNIT -1 Introduction to XML

- Need of XML
- XML Terminology
- XML Standards
- Basic Structure
- The Idea of Markup
- Organizing Information in XML
- Creating Well – formed XML Document
- XML Declaration
- XML Namig Rules

UNIT -1 Introduction to XML

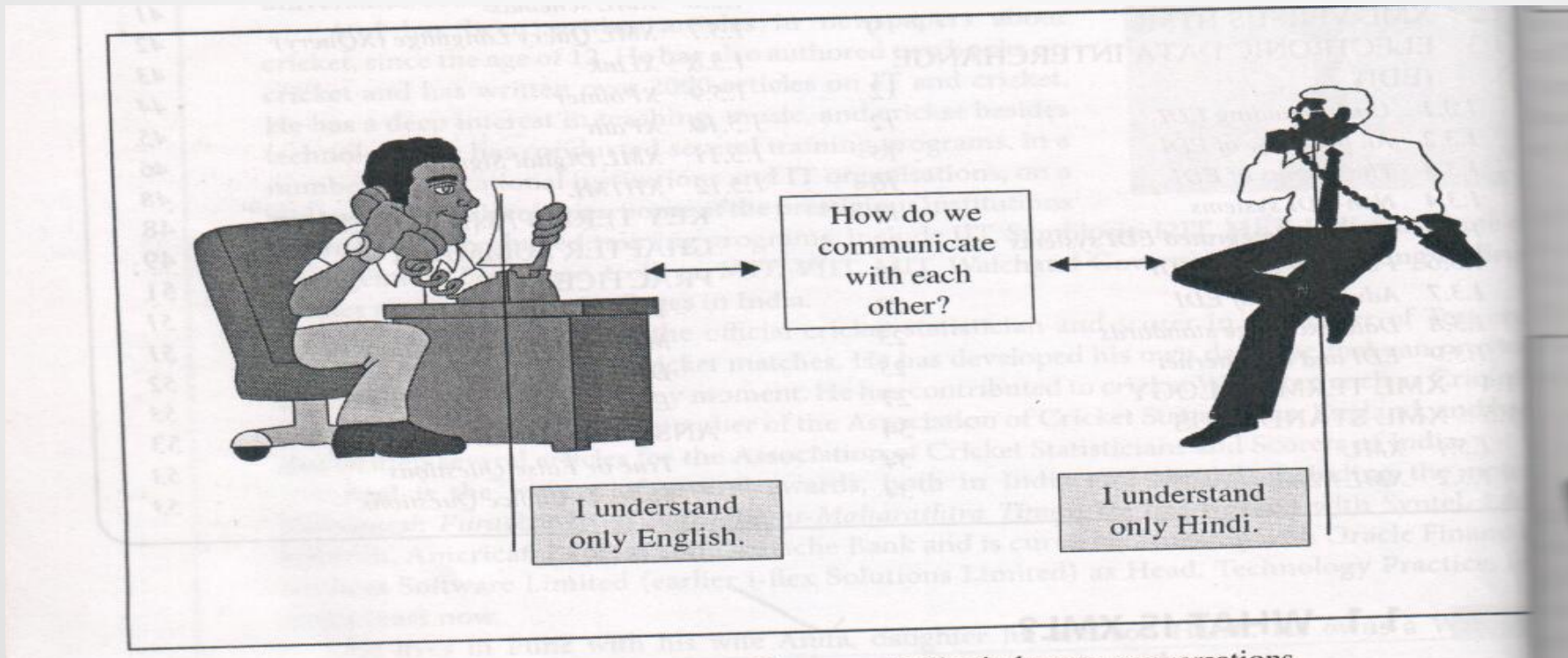
- Element Tag – Rules
- Element Attributes – Rules
- Element Content
- Comments
- Well – Formed versus Valid
- HTML versus XML

Need of XML (What is XML?)

- **Extensible Markup Language**
- Unlike Programming platform, it is **not easy to imagine the end use and applications of XML.**
- XML syntax and semantic are well known, but **where to use it is usually not clear.**

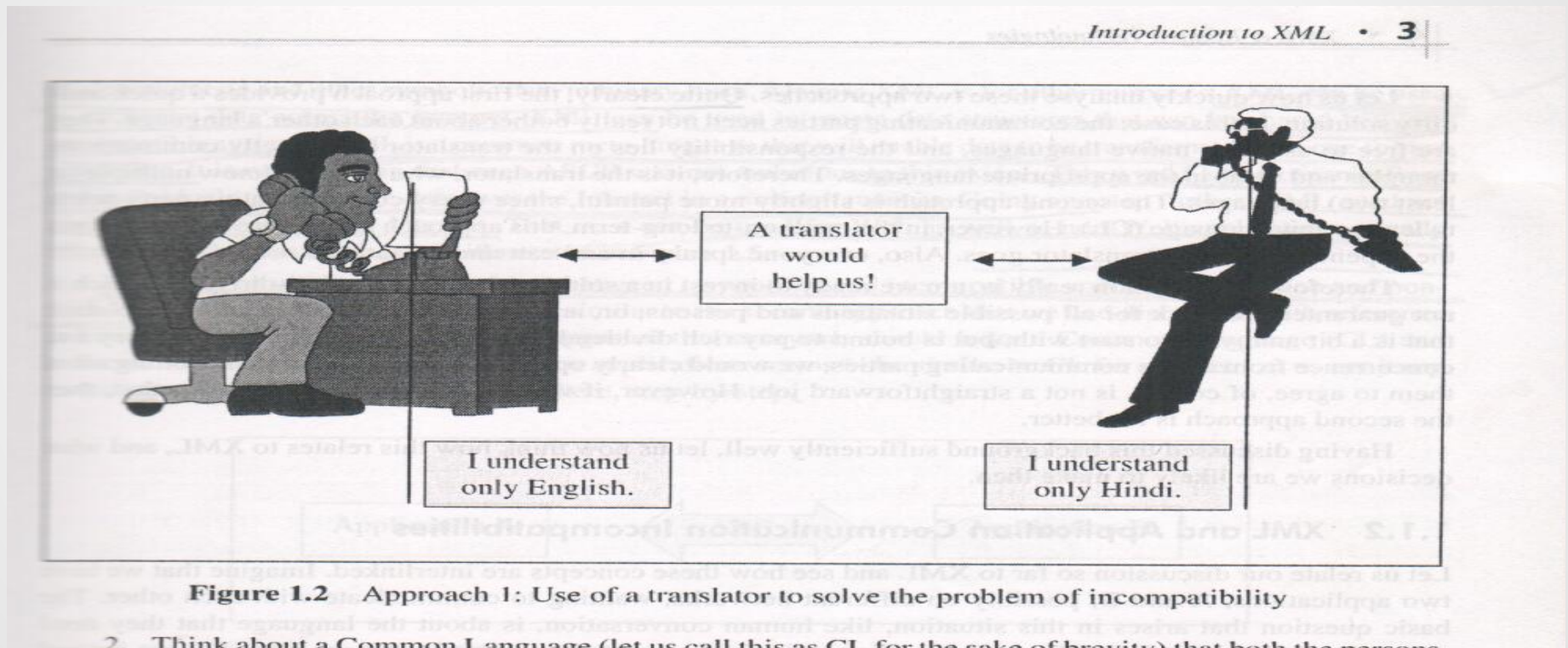
Need of XML (What is XML?)

The Problem of incompatibility in human conversations



Need of XML (What is XML?)

Approach 1: Use of a translator to solve the problem of incompatibility



Need of XML (What is XML?)

Approach 2 : Making the communicating parties use a Common Language (CL)

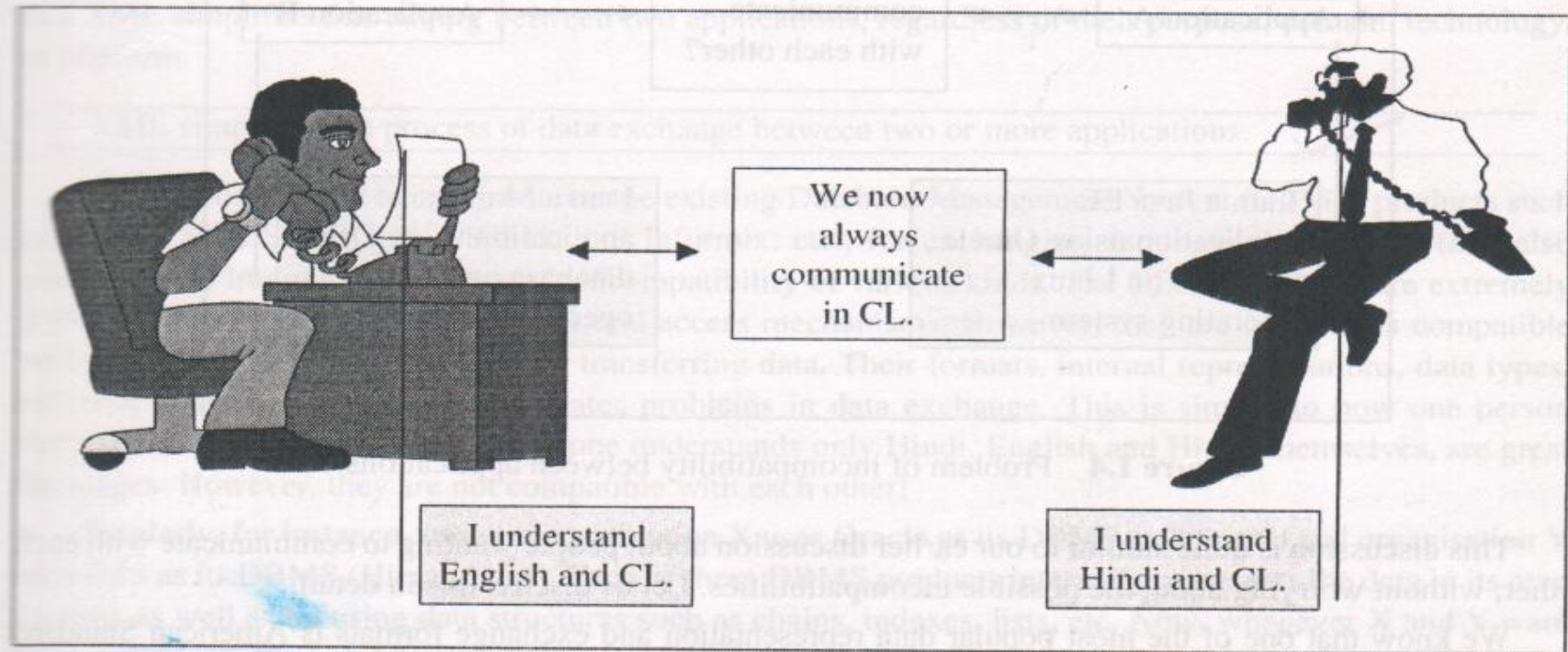
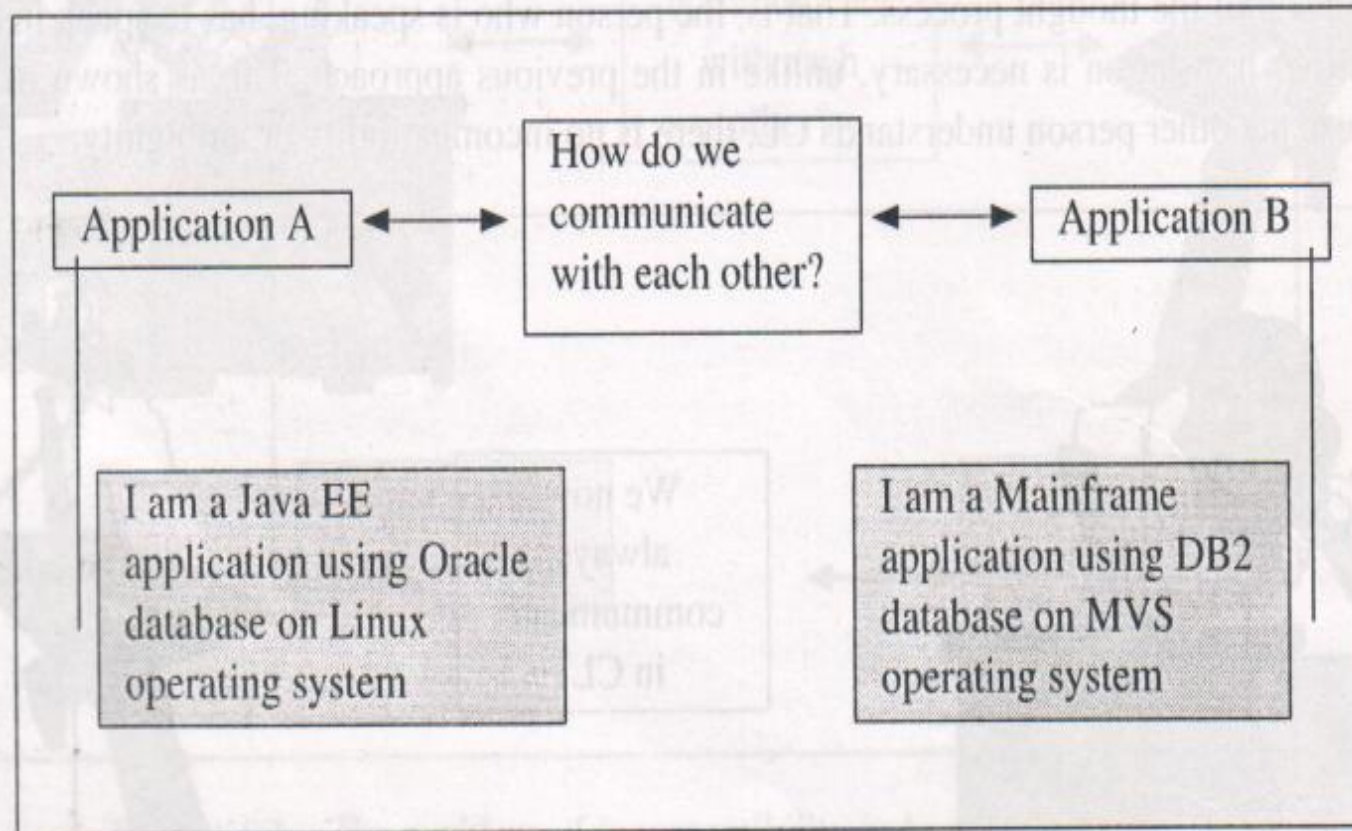


Figure 1.3 Approach 2: Making the communicating parties use a Common Language (CL)

Need of XML (What is XML?)

Problem of Incompatibility between Applications



Need of XML (What is XML?)

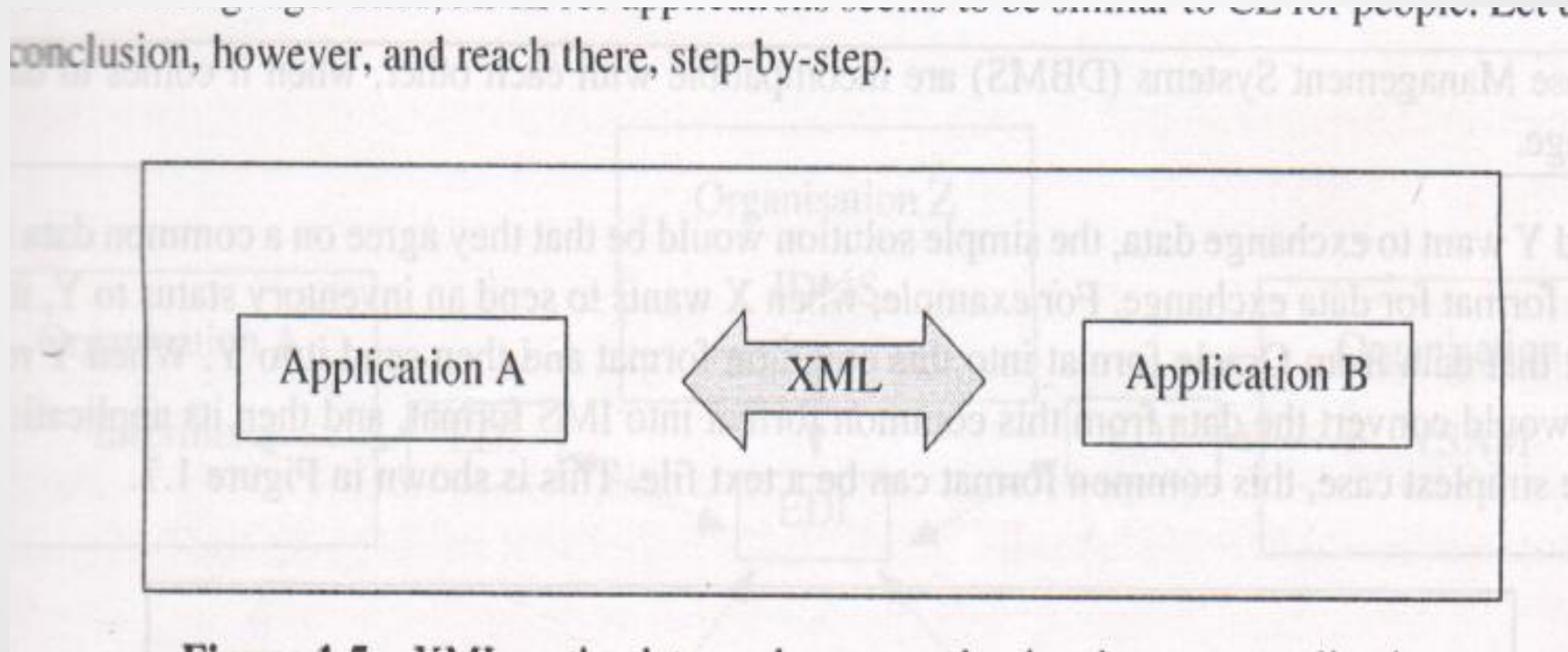
- XML can be **used to exchange data across the Internet.**
- XML can be used to **create data structures that can be shared between incompatible system.**
- XML is a **common meta-language that will enable data to be transformed from one format to another.**
- This would allow organisations and individuals to **exchange data over the Internet in a uniform manner.**

Need of XML (What is XML?)

- XML can be used for web as well as non – web applications.
- XML can be used to exchange data between compatible and incompatible applications in Web and non-Web applications.
- XML simplifies the process of data exchange between two or more applications.

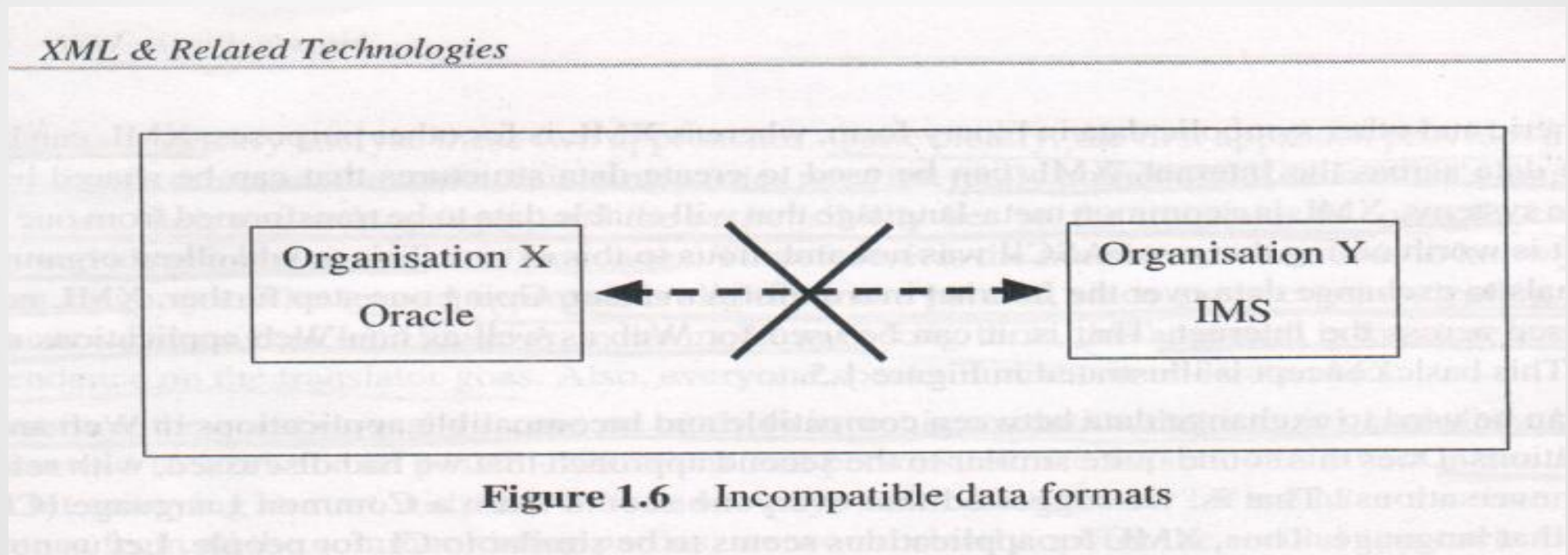
Need of XML (What is XML?)

XML as the data exchange mechanism between applications



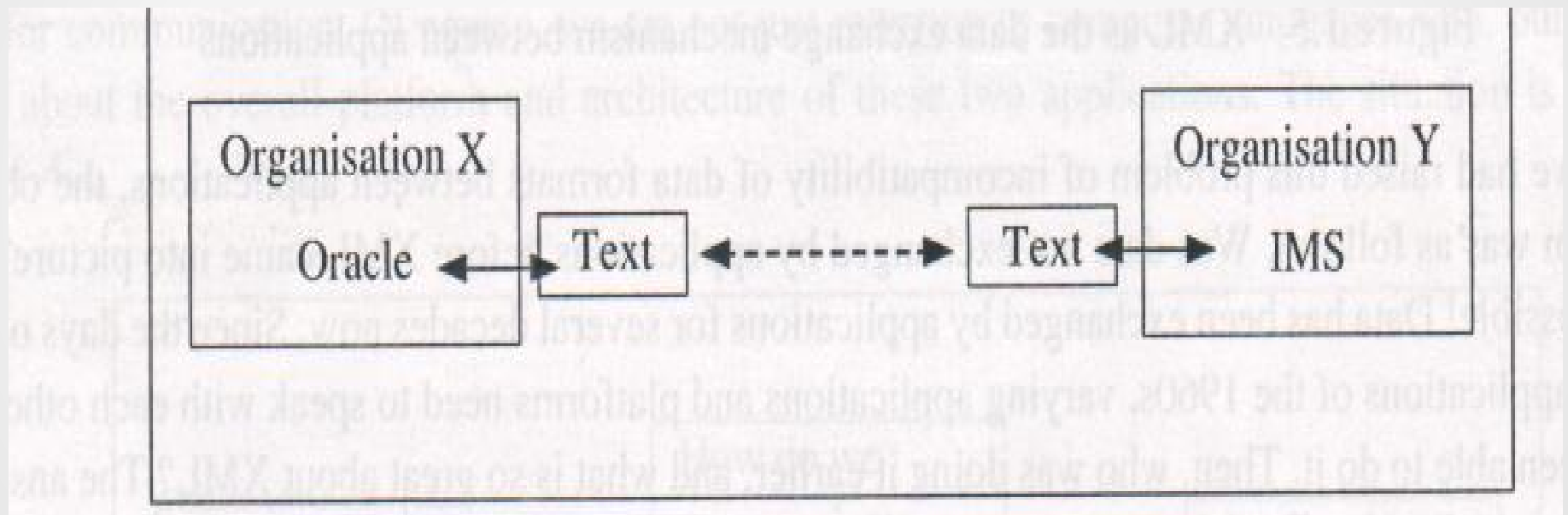
Need of XML (What is XML?)

- Database Management System (DBMS) are incompatible with each other, when it comes to data exchange.



Need of XML (What is XML?)

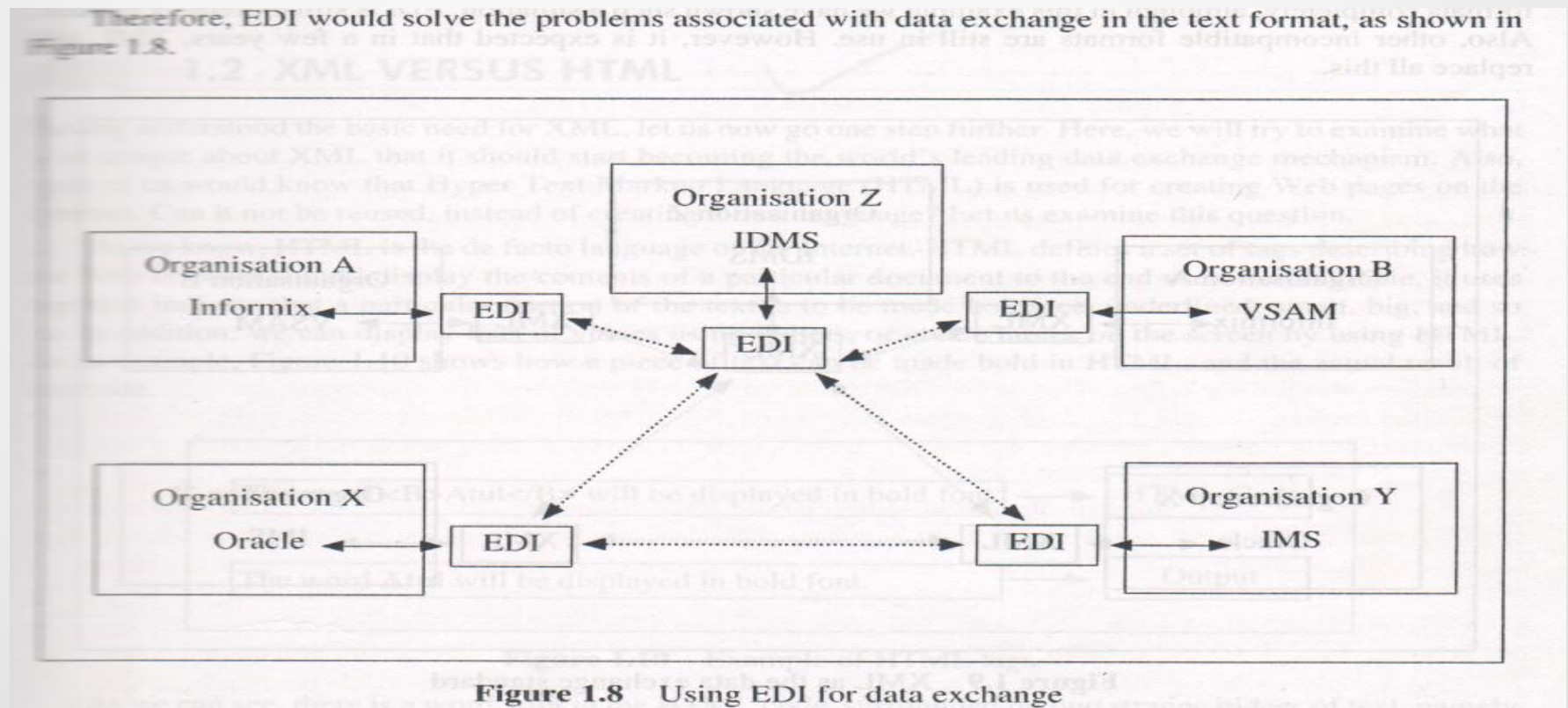
- Solution for data Exchange between Database Management System (DBMS)



Data Exchange in a text Format

Need of XML (What is XML?)

- Solution for data Exchange between Database Management System (DBMS)



Data Exchange using EDI (Electronic Data Interchange)