



Basic Data Concepts:

Introduction to Data and Data Processing

Objectives



Objective

Explain data models
and data processing
concepts.

What is Data?



What is data processing?



What is big data?

- | The volume of available data is huge
- | The data keeps growing at a staggering rate
- | Data comes from a variety of sources in totally different formats



What is scalable data processing?

Allows database processing systems to cope with the **volume**, **velocity** and **variety** aspects that big data brings into the system.

A plethora of data processing systems



| Relational DBMS(Centralized, Distributed)

- Operational workload (bank, online store)

| NoSQL graph, document, key-value stores)

- Unstructured data (highly available systems)

| Hadoop, Spark

- For analytics over massive-scale data