Introduction to Data Exploration

Vector Data

Ira A. Fulton Schools of Engineering
Arizona State University

Objectives

Objective

Identify the data types of elements within a dataset's data

Vector Data

Images

Videos

Social Network

Books

Sensor Reading

Vector Data

Images	Videos	Social Networks	Books	Sensor Readings
colors	actors	connections	words	sensor values
textures	ratings	likes	authors	patterns
shapes	directors	interactions	publishers	

How are Counts Represented?

How are Counts Represented?

How are Counts Represented?

Vector Representation

Vector Representation

Querying

Distance/Simularity Measures

Top-k Retrieval

Classification