Data Visualization Concepts

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# 1. Introduction

## 1.1 Types of Visualizations

|  |  |  |
| --- | --- | --- |
| **Type** | **Advantages** | **Disadvantages** |
| Numbers, Text | Precise | Un-interprative |
| Charts | Reveals temporal relations and trends | Imprecise |
| Maps | Abstractions make sure that important aspects can be easily seen  Maintains spatial distance relations | Can be overloading and distracting |
| Graphs | Shows connections properly | Not quantitative distances or times |
| Network systems | Can represent complex relations |  |

# 2. Fundamental Data Processing

## 2.1 Data types

### 2.1.1 Classification

* Nominal
  + Just different states without classification
* Ordinal
  + Order, although not consistent distances
* Numerical
  + Clear numerical numbers