

OBJECTS VS FIELDS: CONCEPTUAL DIFFERENCES

▶ **Observed element**

- ▶ In the object model, focus is on the “object”
 - ▶ Object may have multiple attributes
- ▶ In the field model, focus is on the “attribute”
 - ▶ Attribute varies over space

▶ **Empty space**

- ▶ In the object model, space between entities is “empty”
- ▶ No empty space in the field model

SPATIAL DATA MODELS

- ▶ Describe the conceptual models for digital representation
 - ▶ Two primary models are **raster** and **vector**

- ▶ **Raster**

- ▶ Uses grid cells
 - ▶ Each cell coded with a single value

- ▶ **Vector**

- ▶ Uses spatial “features”
 - ▶ Points, lines, polygons

