F04 Set formalization

Course in Semantics · Ling 531 / 731 University of Kansas

- 1. Which of the following describes an abstracted set?
 - It takes an entity and gives us the abstract versions of them so we can avoid dealing with them directly.
 - It expresses a generalization that keeps us from having to list specific examples.
 - It removes details or attributes of objects so we can focus on details of greater importance.

2. Find a map of Europe, and fill in the following sets to make them equivalent, given the set E of European countries. There may be multiple answers required.

(1) $\{ x \in E \mid x \text{ borders Switzerland } \} =$	
{ France, Germany, Liechtenstein,	}
(2) { $y \in E$ The Rhine flows through or along y } = { Germany, France, Switzerland,	}
(3) { $z \in E \mid z$ borders the Baltic Sea } = { Russia, Estonia, Latvia, Lithuania,	}

3. Assume for this problem that our domain D consists of the following sounds:

 $\{\,e,\,h,\, ?,\,\epsilon,\,p,\,i,\,y,\,æ,\,t,\,k^h\,\}.$

Given D, write the meaning of *vowel* in the following ways:

- 1. in denotation brackets
- 2. list the members of the set
- 3. abstracted set
- 4. Now, write the meaning of *consonant* in the same way.
 - 1. in denotation brackets
 - 2. list the members of the set
 - 3. abstracted set