



## Essentials of Formal Logic with Joelle Hodge

### Lesson 39: Chapter 9.5

#### Outline:

##### Chapter 9, Lesson 9.5

- Definitions and Disagreements
- Extension vs. Intention
- Points to Remember
  - There are both extensive and intensive definitional techniques.
    - These are techniques to build the right definition or to critique a definition.
    - A lexical definition probably cannot be challenged.
    - A theoretical definition and stipulative definition can be challenged.
  - The extension of a term is the sum total of all of the members of that class.
    - In a sense, the extension of a term is the breadth of that term.
    - Thus, the class “human” has a greater extension than the class “Pennsylvanian” because there are far fewer items in the class “Pennsylvanian” than there are in the class “human.”
  - The intension of a term is the sum total of qualities that identify which entities are members of that class.
    - Thus, if we were to take one of the examples we used to explain extension and listed its classes in order of increasing intention, it would simply be reversed like this: animal, mammal, carnivore, feline, great cat, tiger, Siberian tiger.
    - Characteristics of the environmental movement are that it is a social movement, it is focused on preserving and purifying the resources and habitats of the earth, and it promotes societal and individual changes that benefit the earth, such as recycling, reusing materials, and reducing consumption. It also has several different facets, such as reversing global warming, protecting endangered species, creating sustainable living communities, and promoting sustainable agricultural practices. If you notice, all of these words and phrases are describing what the environmental movement is. Rather than listing different parts or sub-movements in the environmental movement as an extensive definition would do, the intension of the phrase “environmental movement” attempts to broaden our view of



what the environmental movement is by providing descriptive phrases and synonyms that illustrate it.