

An argument for P1

- P3. A proposition is true or false (C) only if (D) the proposition is meaningful... $C \supset D$
- P4. The proposition is meaningful (D) only if the names within it are meaningful... $D \supset E$
- P5: The names in a proposition are meaningful (E) only if the names in the proposition refer to things that possibly exist (F)... $E \supset F$
- C2. If the names in a proposition do not refer to things that possible exist ($\neg F$), the proposition is neither true or false ($\neg C$)... $\neg F \supset \neg C$
 - Note: i) $\neg F \supset \neg E$, ii) $\neg E \supset \neg D$, iii) $\neg D \supset \neg C$, thus, (iv) $\neg F \supset \neg C$

P3: Examples

- **Barack Obama** lives in **Chicago**
- **Santa Clause** lives in **Chicago**
- **Santa Clause** lives in the **North Pole**
- **Superman** loves **Batman**
- **Superman** loves **Louis Lane**