

Booleana



AND, OR, NOT



TRUTH TABLES

Boolean algebra

- consider the following statements that can be either TRUE or FALSE:
 - *Today is Monday AND it is raining*
 - *Today is Monday OR today is NOT Monday*
 - *Today is Monday AND today is NOT Monday*
- Boolean algebra allows us to formalize this sort of reasoning
- Boolean variables may take one of only two possible values: TRUE, FALSE
- there are three fundamental Boolean operators: AND, OR, NOT
- an exhaustive approach to describing when some statement is true (or false): TRUTH TABLES
- the = in Boolean algebra indicates equivalence

Boolean algebra

The three fundamental Boolean operators