## **Logical Operators**

Date: Aug 26, 2024

not

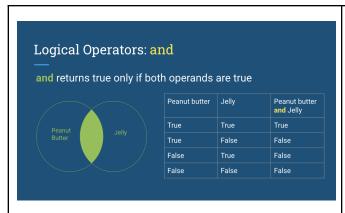
## **Logical Operators**



These keywords in Python are logical operators:

- and
- or
- not

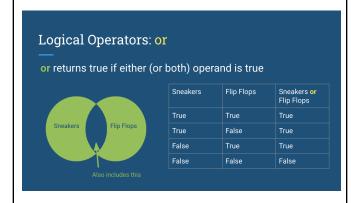
They are operators that are used on boolean values.



and

This returns TRUE only if both operands are TRUE.

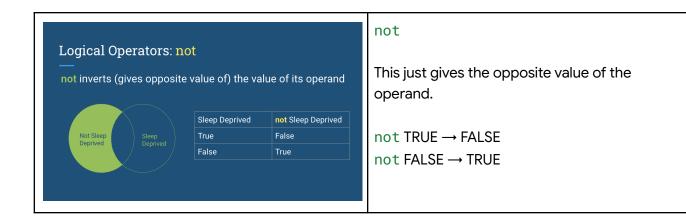
TRUE and TRUE  $\rightarrow$  TRUE
TRUE and FALSE  $\rightarrow$  FALSE
FALSE and TRUE  $\rightarrow$  FALSE
FALSE and FALSE  $\rightarrow$  FALSE

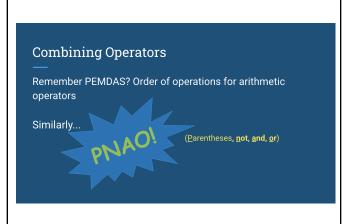


10

This returns TRUE if at least one of the operants is TRUE.

TRUE or TRUE  $\rightarrow$  TRUE
TRUE or FALSE  $\rightarrow$  TRUE
FALSE or TRUE  $\rightarrow$  TRUE
FALSE or FALSE  $\rightarrow$  FALSE





What order do we evaluate these operators if we have a long expression using these logical operators?

- Anything in parentheses first!
- not
- and
- or

PNAO!!

## **TODOs**

- ☐ HW 1 Data Types, Expressions, Variables
  - o Due this Wednesday Aug 28, 2024 @ 11:59pm!
- ☐ Project 1 (pt. 1) Blackjack!
  - Released TODAY on Monday Aug 26, 2024!
  - Due this Sunday Sep 1, 2024 @ 11:59pm!
- ☐ Quiz 2
  - o This Friday! Remember it is the first 15 minutes of class:)
  - Covered topics: Variables, Conditionals, I/O (not file input)