Logic Gates

- Logic gates are used to create the circuits that are used to perform computations in a computer.

- Different types of gates (below is only a subset):

  - NAND ("not AND")

  - AND

  - OR

  - NOR ("not OR")

  - XOR ("exclusive OR")

AND and OR gates

- AND and OR gates each take in two values and output another value

- Similar to Python's "and" and "or" operators

- Can describe using a **truth table** like the one below

P	Q	P and Q	P or Q
TRUE	TRUE	TRUE	TRUE
TRUE	FALSE	FALSE	TRUE
FALSE	TRUE	FALSE	TRUE
FALSE	FALSE	FALSE	FALSE