Set of logical operators that can express all possible truth table values by combining into a Boolean expression

For example: {AND, NOT}

May not be the simplest equations, but still a useful property to know and understand.

Equivalenty, set of *gates* that can be used to build any circuit

Why do we care?

This is a guarantee that, as long as we start out with some minimal set of gates, there is no (combinational) circuit that we won't be able to build

- How do we know that {AND, OR, NOT} is logically complete?
 - We can express any truth table in SOP form!

- What if we want to show another set is logically complete?
 - For example, given that {AND, OR, NOT} is logically complete, how can we show that {AND, NOT} is logically complete?

- What if we want to show another set is logically complete?
 - For example, given that {AND, OR, NOT} is logically complete, how can we show that {AND, NOT} is logically complete?
- Build an OR gate using only {AND, NOT}

• In general, if set S is logically complete, we can show that set T is logically complete by using T to build every element of S.