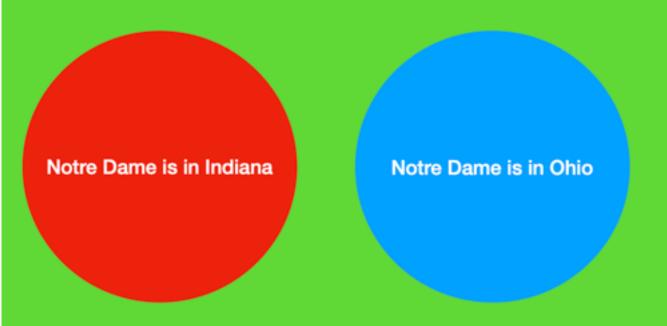1. Either Notre Dame is in Indiana or Notre Dame is in Ohio.
2. Notre Dame is not in Ohio.
_____
C. Notre Dame is in Indiana. (1,2)

an argument is **valid** when it is impossible for its premises to be true and its conclusion false

an argument is **sound** when it is valid and all of its premises are true

Here is a third way to see why the argument is valid. The Venn diagram at left represents three ways the world could be. The first premise rules out the green possibilities. The second premise rules out the blue possibilities. So the premises rule out all but the red possibility, which is what the conclusion says.

Notre Dame is in Indiana

Notre Dame is in Ohio

Notre Dame is in neither Indiana or Ohio.
(Maybe it is somewhere else, maybe it
does not exist, …)

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