



"Jesus loves me this I know for the Bible tells me so."

"You ask me how I know He lives, He lives within my heart."

| Faith | Reason |
|-------------|--------------|
| opinion | truth |
| values | facts |
| inner | outer |
| private | public |
| emotional | rational |
| feelings | thoughts |
| subjective | objective |
| religion | science |
| true for me | true for all |

The Proper Conception

Reason

Believing those things demonstrated by appropriate disciplines, e.g., philosophy, science, mathematics, history

Certain truths can be discovered both about God and creation.

- God's existence and attributes - DNA molecule
- Fermat's Last Theorem

General Revelation Rom. 1:19-20 Psalm 19:1-4

Faith

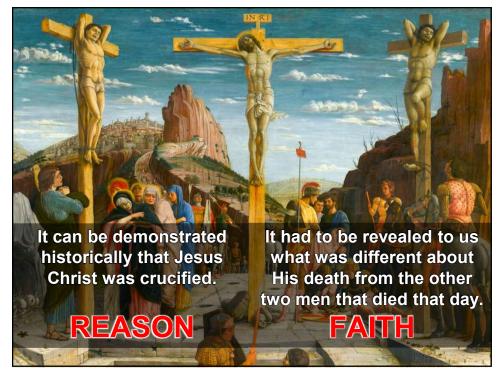
Believing those things revealed by God through Christ and Scripture that could not be discovered by reason alone

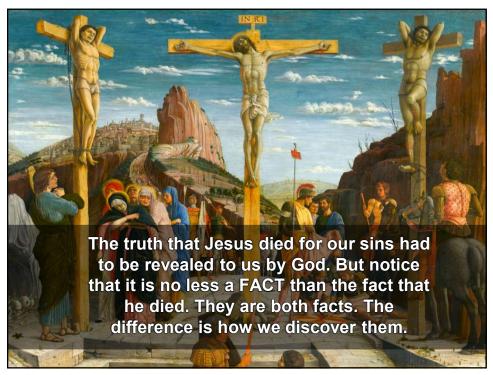
Certain truths are revealed both about God and creation.

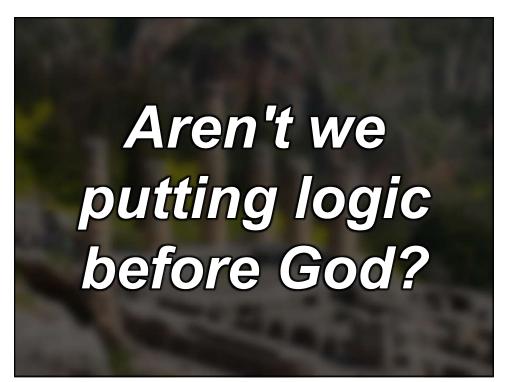
- The Trinity
- The Gospel
- Second Coming

Special Revelation 2 Peter 1:21 Col. 2:9; John <u>14:9</u>









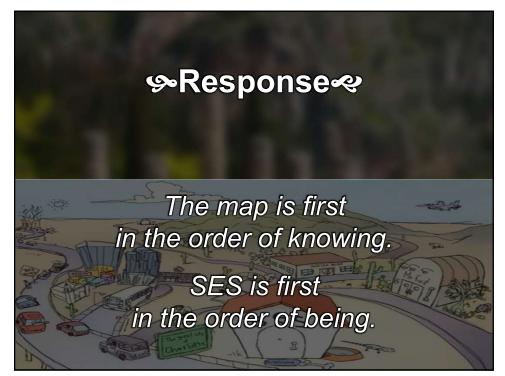
%Response «

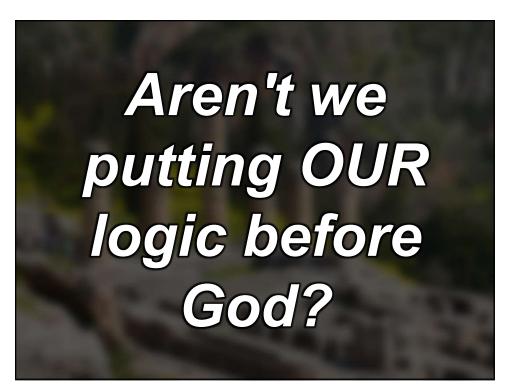
There is a difference between "the order of knowing" and "the order of being"

map to SES example

The order of knowing vs. the order of being





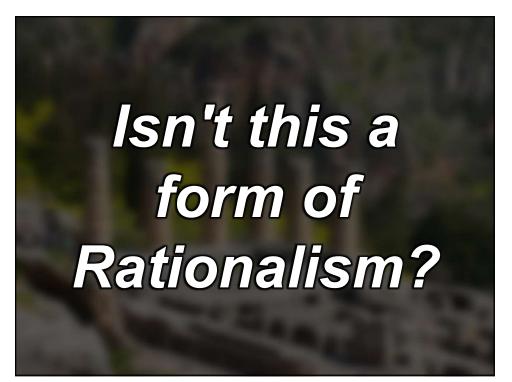


%Response «

It is not "our" logic.

Logic is an expression of the nature of God Himself.

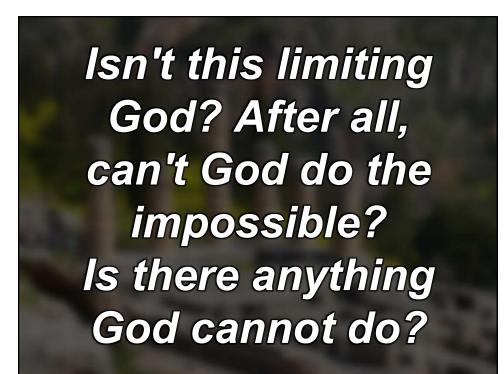




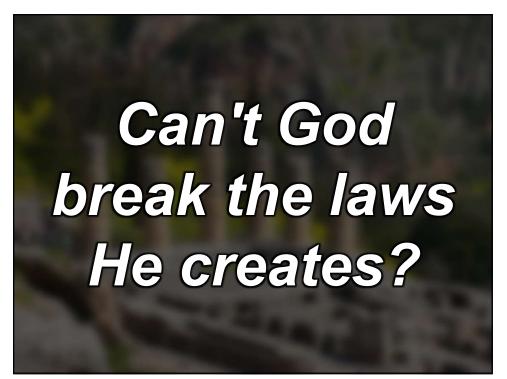
%Response

There is a difference between being rational and Rationalism.

The notions of self-evident truths or rationally inescapable truths do not constitute Rationalism.



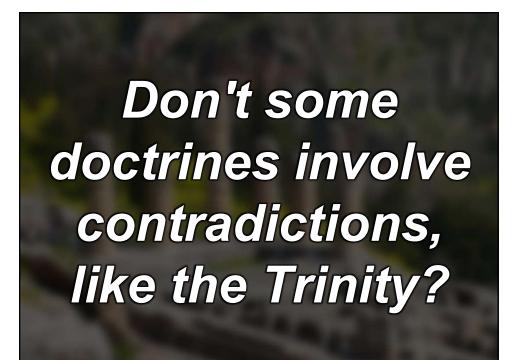
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%Response

Logic was not created by God. It is an expression of God. (like goodness)

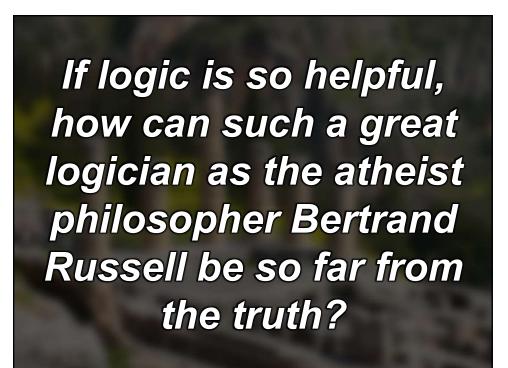




∽Response≪

There is nothing in the doctrine of the Trinity (or any other biblical doctrine) that is illogical.

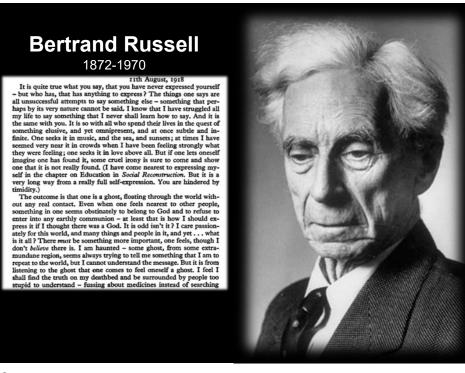
There is a difference between something being beyond reason and something being against reason.

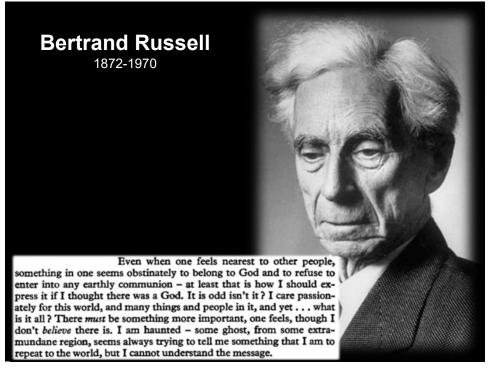


%Response«

If you start a race facing the wrong direction, then the faster you can run, the quicker you will be in getting farther from the finish line.





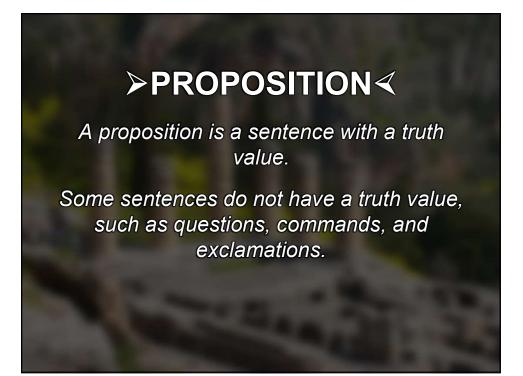




>TRUTH VALUE <</p>

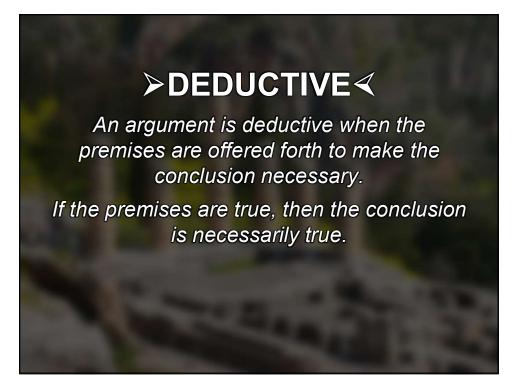
A sentence has a truth value when it can be said that the sentence is either true or false.





>ARGUMENT ≺

An argument is a set of two or more propositions offered forth to support, demonstrate, or prove another proposition. The propositions offered forth are premises. The proposition supported, demonstrated, or proven is the conclusion.

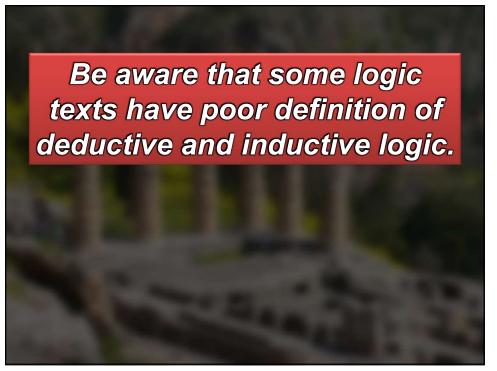


≻INDUCTIVE∢

An argument is inductive when the premises are offered forth to make the conclusion probable.

If the premises are true, then conclusion is probably true.

Note that this is a logical definition of 'induction' and not a metaphysical one.

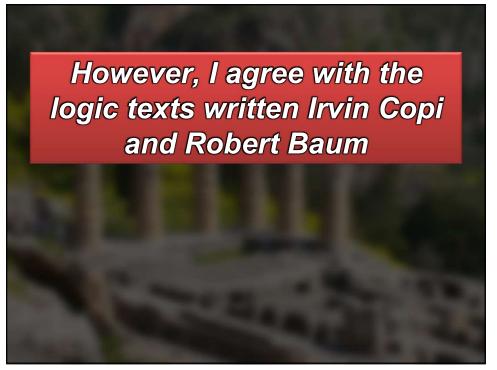


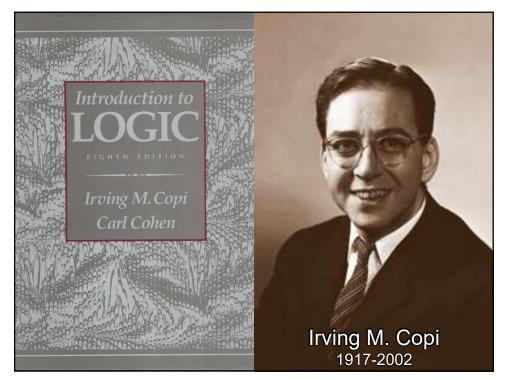
They mistakenly define deductive logic as reasoning from general to specific; e.g.,

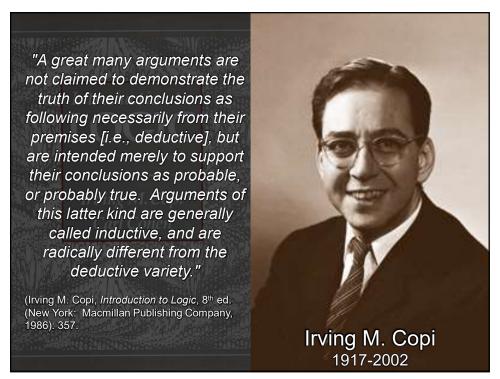
All men are mortal. Socrates is a man. Therefore, Socrates is mortal.

and mistakenly define inductive logic as reasoning from specific to general; e.g.,

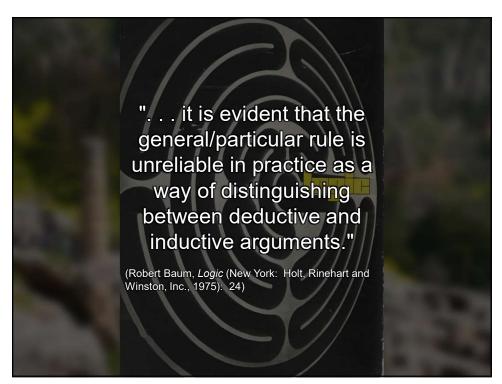
This swan is white. These swans are white. Therefore, all swans are white.







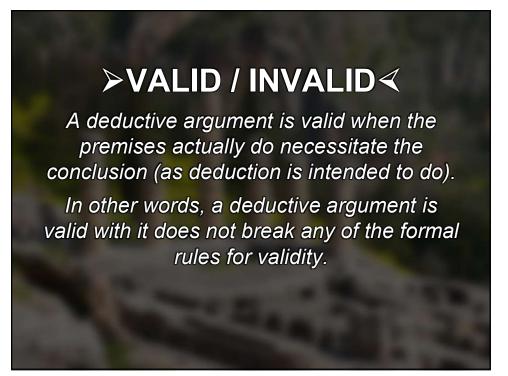




>VALID / INVALID∢

Strictly speaking, only arguments are valid or invalid, not specific ideas or points. Validity has to do with only deductive arguments.

Inductive arguments are never said to be valid, but instead are said to be strong or weak.



>VALID / INVALID∢

A deductive argument can be valid and yet still have a false conclusion.

The Sun is 60 miles from the Earth. Light travels at 60 miles per hour. Therefore, light will take an hour to get from the Sun to the Earth. A valid deductive argument can have a false conclusion only if at least one of its premises is false.



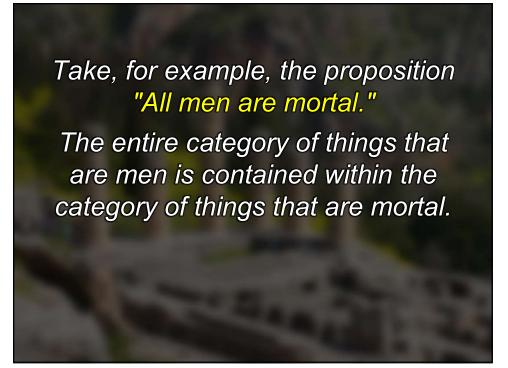
>SOUND∢

A deductive argument is sound when it is valid and has true premises. Only deductive arguments are said to be sound.



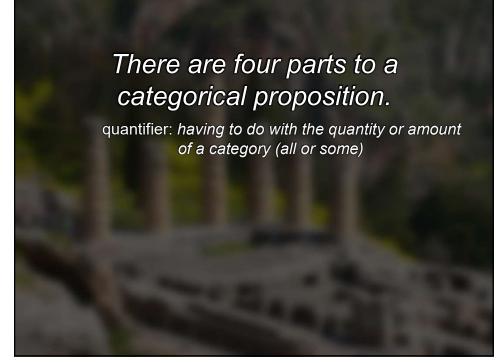
Categorical logic utilizes categorical propositions. A proposition is categorical when it includes or excludes all or some of one category of things in / from another category of things.

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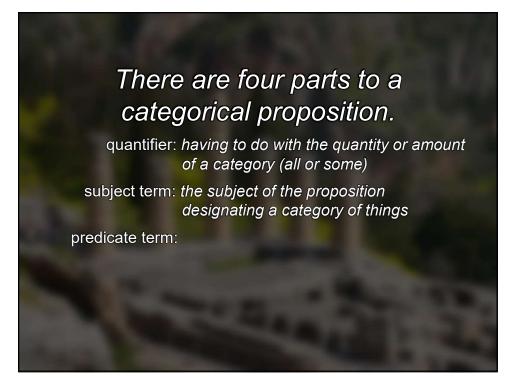




There are four parts to a categorical proposition.

quantifier: having to do with the quantity or amount of a category (all or some)

subject term: *the subject of the proposition designating a category of things*

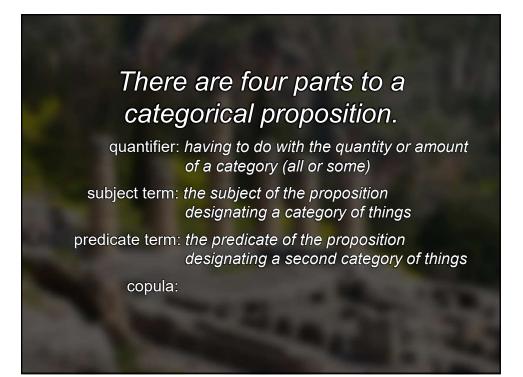


There are four parts to a categorical proposition.

quantifier: having to do with the quantity or amount of a category (all or some)

subject term: the subject of the proposition designating a category of things

predicate term: the predicate of the proposition designating a second category of things



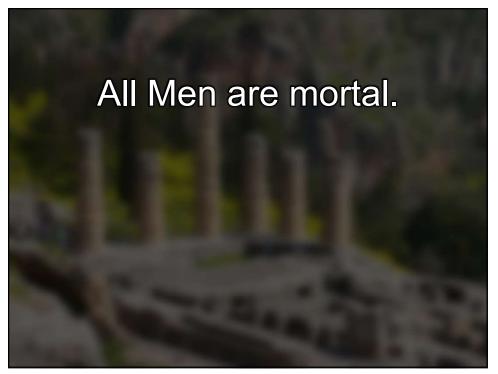
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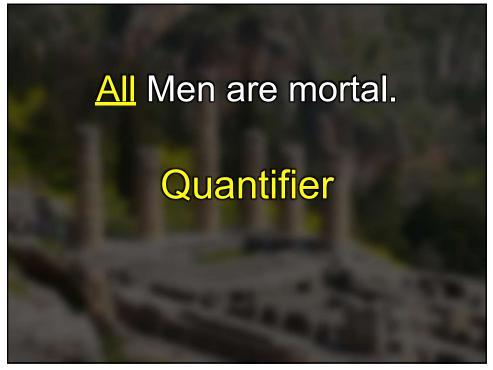
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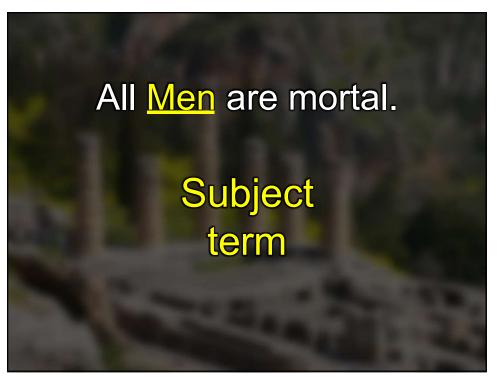
subject term: *the subject of the proposition designating a category of things*

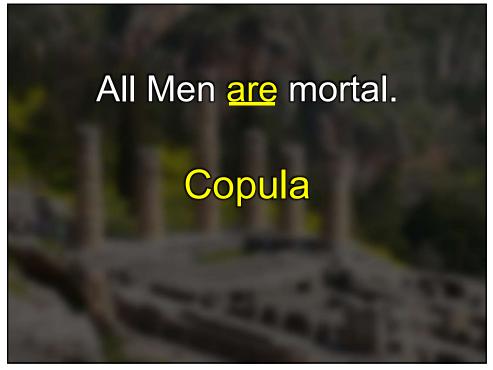
predicate term: the predicate of the proposition designating a second category of things

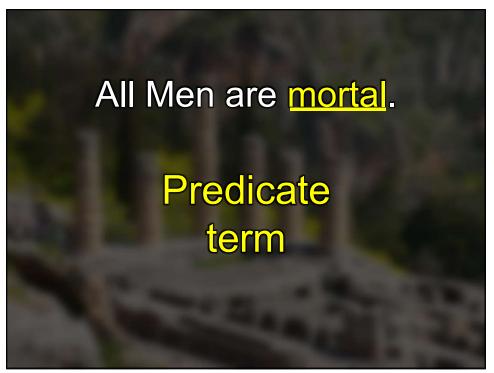
> copula: the "is / are" or "is not / are not;" the quality which is including or excluding





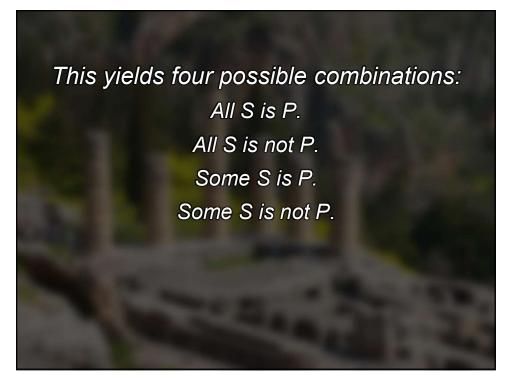


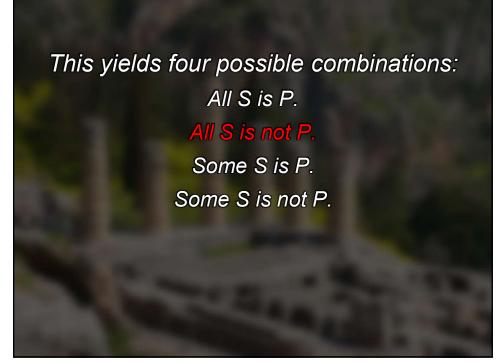


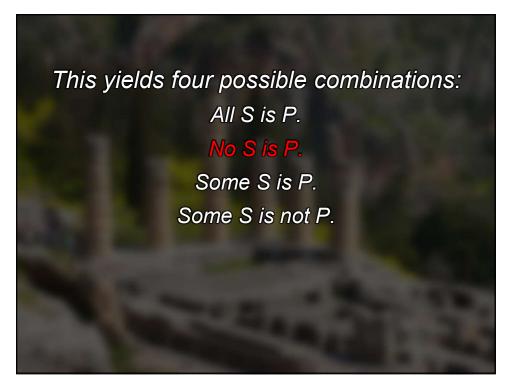


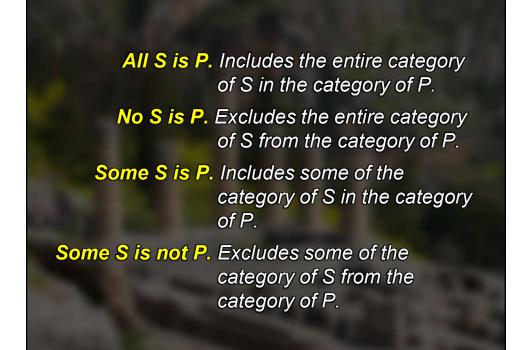
There are two quantifiers. all = universal some = particular There are two copulas. is / are = affirmative is not / are not = negative

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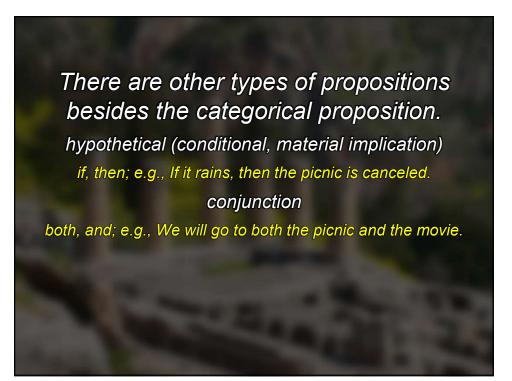












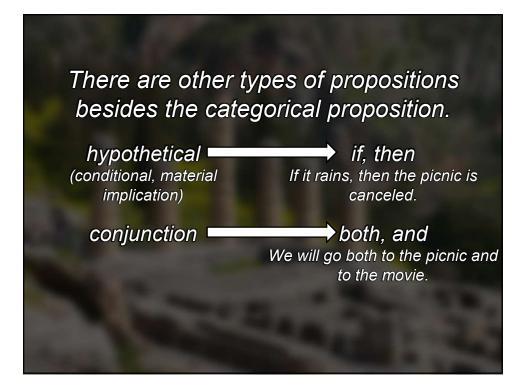
There are other types of propositions besides the categorical proposition.

hypothetical (conditional, material implication) *if, then;* If it rains, then the picnic is canceled.

conjunction

both, and; We will go both to the picnic and to the movie.

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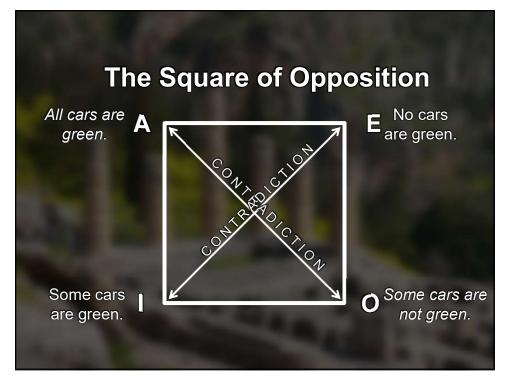
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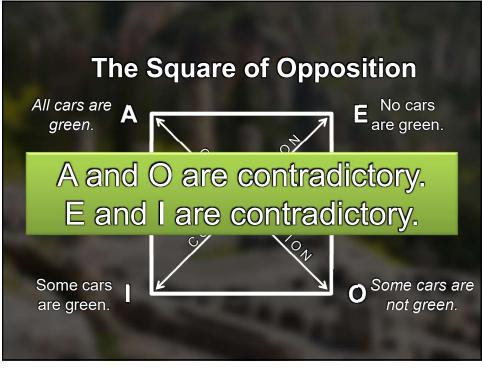
disjunction

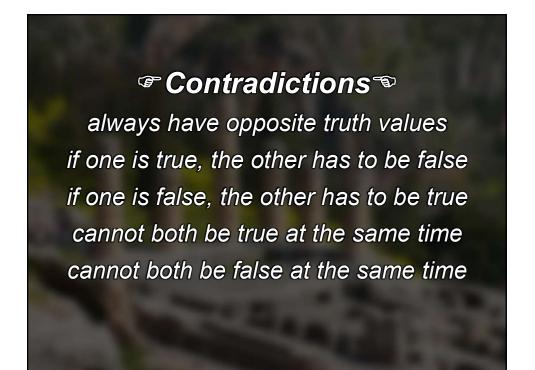
either, or Either we will go the picnic or go to the movie (or both).

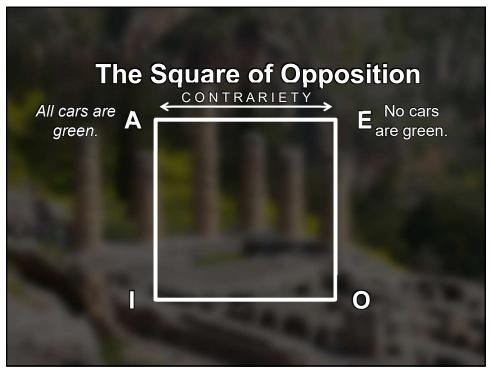
bi-conditional

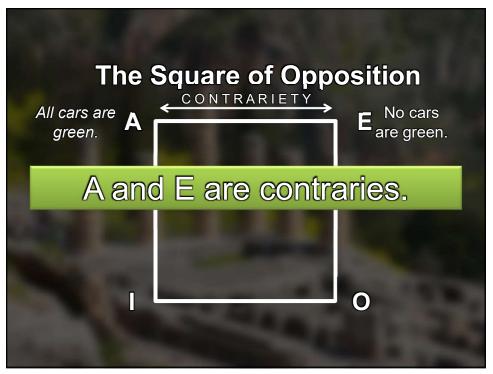
if and only if We will go to the movie if and only if it starts late enough.





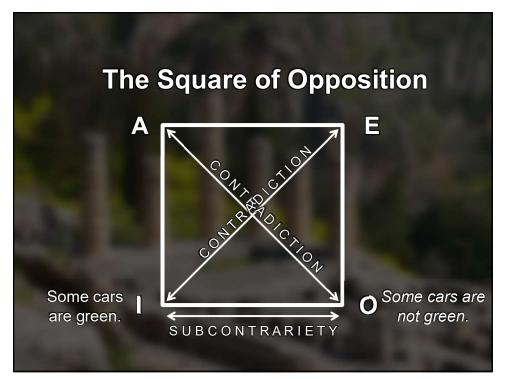


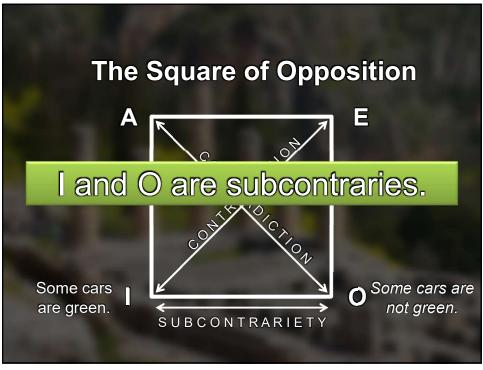


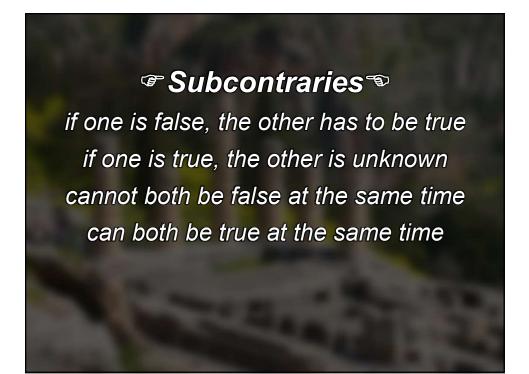


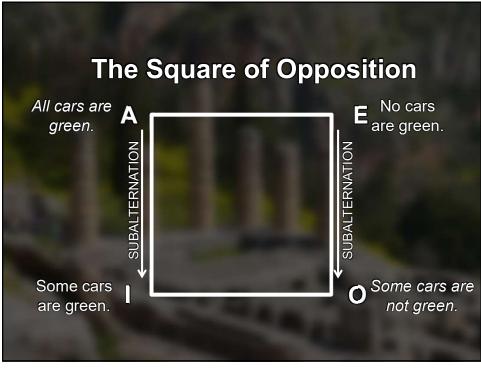
☞ Contraries [™]

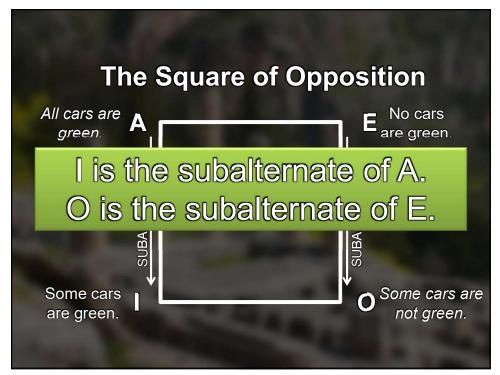
if one is true, the other has to be false if one is false, the other is unknown cannot both be true at the same time can both be false at the same time

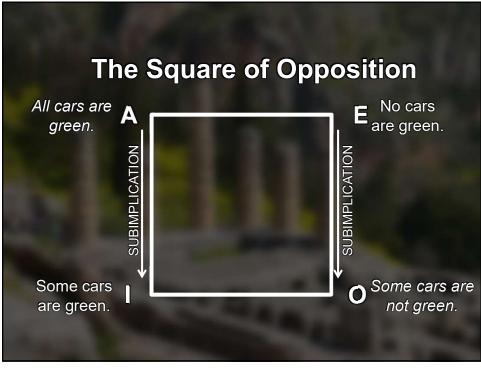


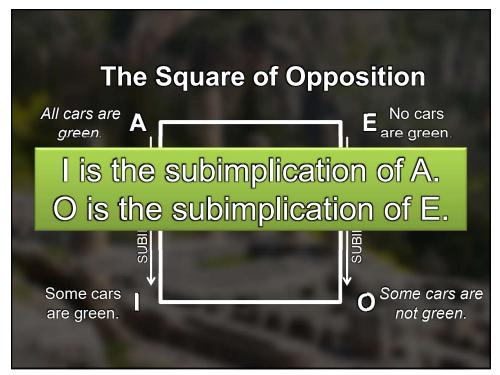






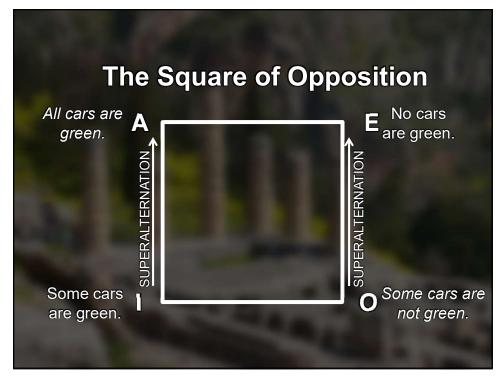


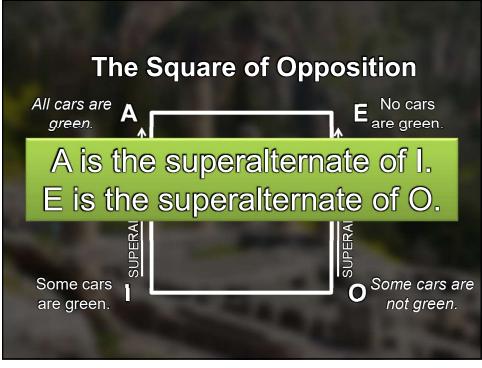


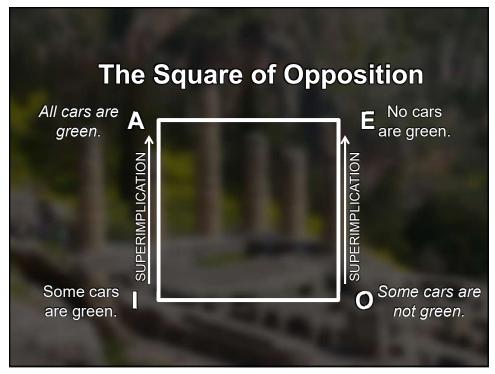


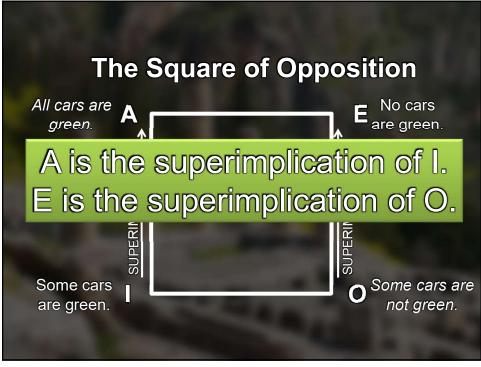
@ Subalternates®

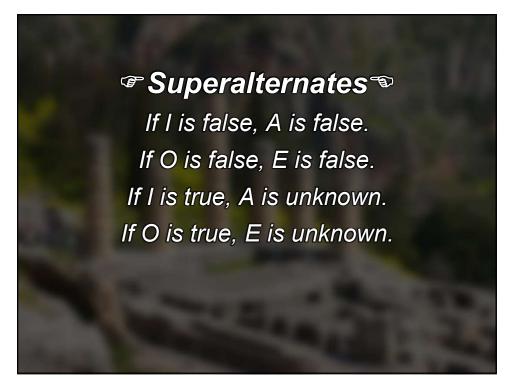
If A is true, I is true. If E is true, O is true. If A is false, I is unknown. If E if false, O is unknown.

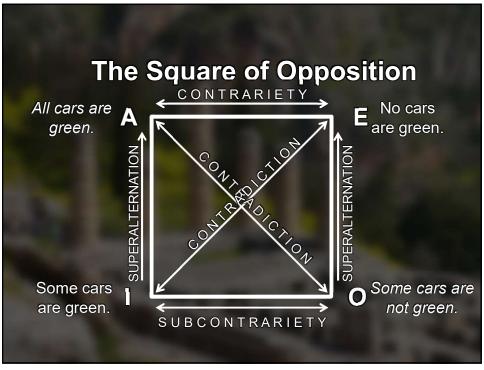


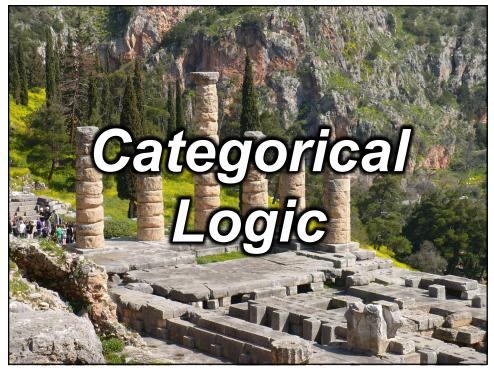












The most common type of categorical argument (for which Aristotle is famous) is the categorical syllogism

A syllogism is an argument with two premises and a conclusion.

A categorical syllogism is a syllogism composed of all categorical propositions.

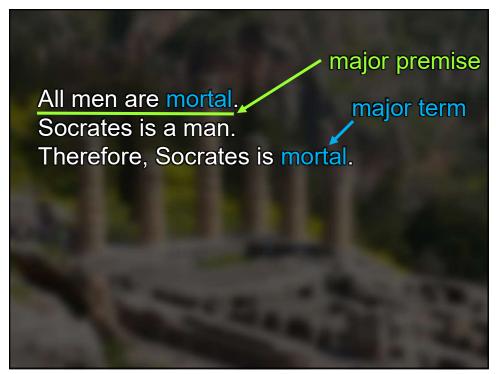
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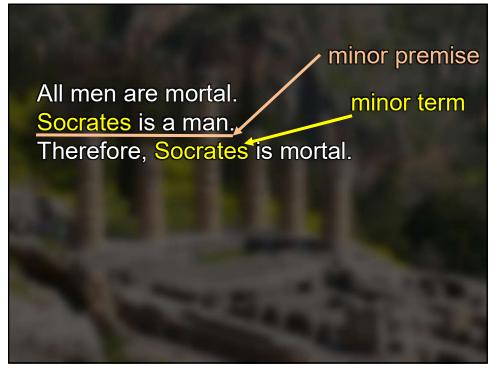


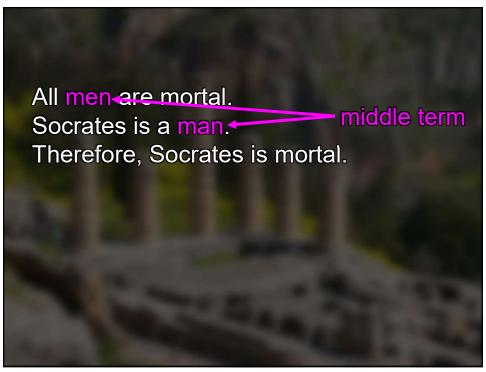
Identifying the Parts

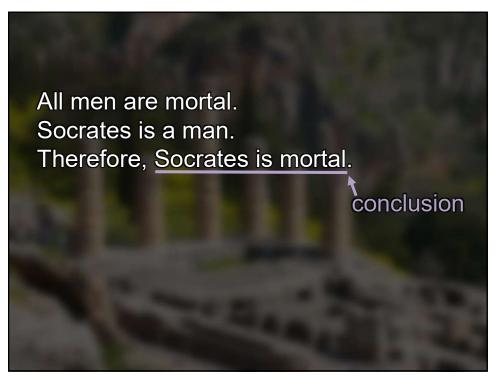
- The major term is the predicate of the conclusion.
- ✤ The minor term is the subject of the conclusion.

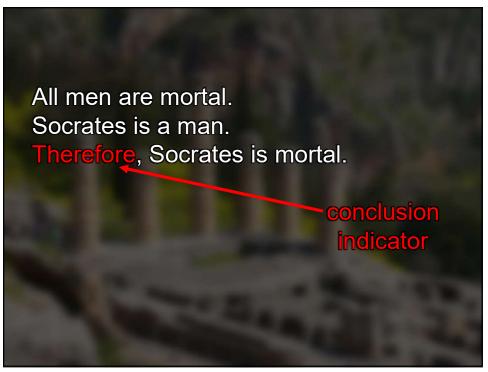
The middle term occurs only once in each premise but does not occur in the conclusion.



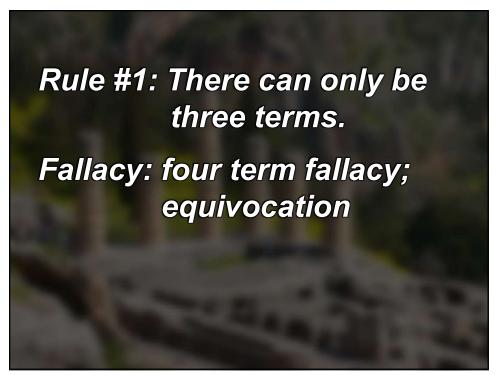








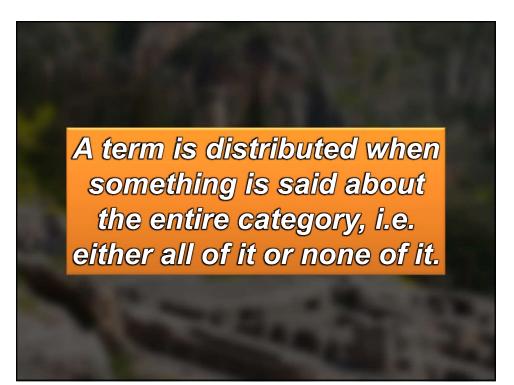




Rule #2: The middle term must be distributed at least once.

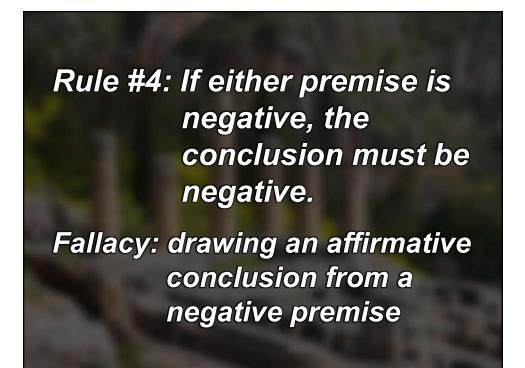
Fallacy: undistributed middle

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Rule #3: If a term is distributed in the conclusion, it must be distributed in its premise.

Fallacy: illicit major / illicit minor



Rule #5: There cannot be two negative premises.

Fallacy: two negative premises

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Some Ys are not Zs. <u>No Xs are Ys.</u> Therefore, some Xs are not Zs. Some humans are not female. <u>No monkeys are humans.</u> Therefore, some monkeys are not female.

No Ys are Zs. <u>All Xs are Ys.</u> Therefore, no Xs are Zs. No amphibians are mammals. <u>All frogs are amphibians.</u> Therefore, no frogs are mammals.