Introduction to Logical Reasoning
Workshop on Diagraming Categorical Statements

Professor David Emmanuel Gray

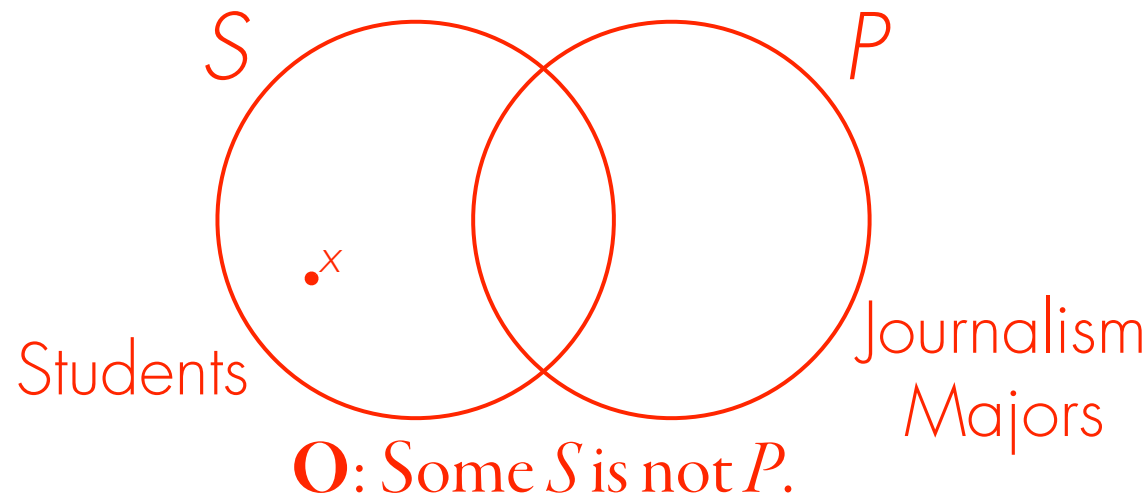*Northwestern University in Qatar*
Carnegie Mellon University in Qatar

Part I, Problem 1 Solution

Some students are not journalism majors.

The subject (S) is students.

The predicate (P) is journalism majors.

The Venn diagram for this statement:

O: Some S is not P.

Part I, Problem 1 Solution

The quality of this statement is *negative*, since it is telling us that a relationship does *not* hold between the subject and the predicate.

The quantity of this statement is *particular*, since it is telling us something about *some* students. Indeed, the diagram only shows us where *some* students are located.

The predicate (P) is *distributed* because the statement does tell us something about *all* journalism majors, namely that there is something (at least one student) excluded from that entire group.
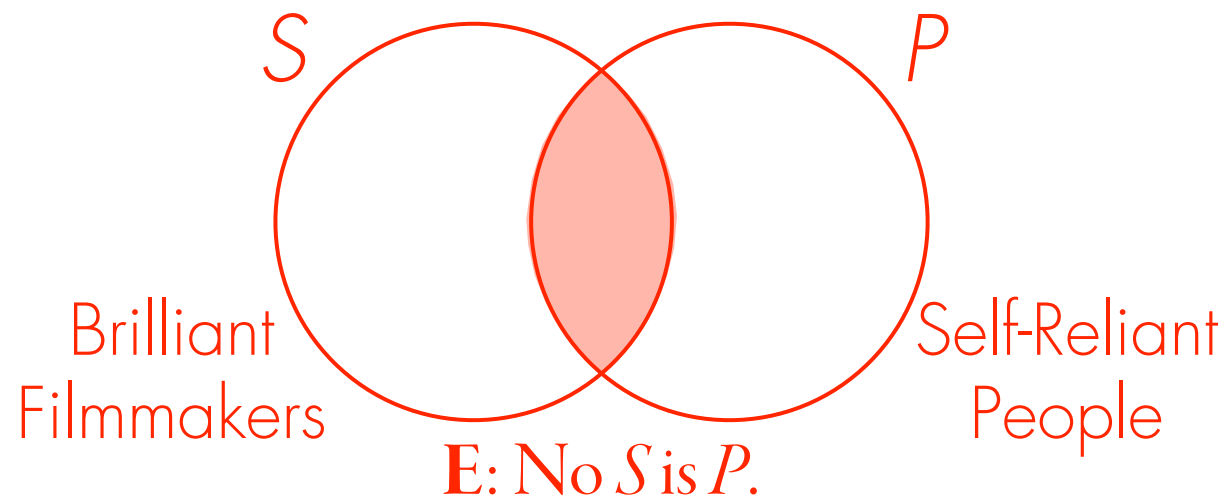
Part I, Problem 2 Solution

No brilliant filmmakers are self-reliant.

The subject (S) is brilliant filmmakers.

The predicate (P) is self-reliant people.

The Venn diagram for this statement:

S P

Brilliant Filmmakers   Self-Reliant People

E: No S is P.

Part I, Problem 2 Solution

The quality of this statement is *negative*, since it is telling us that a relationship does *not* hold between the subject and the predicate.

The quantity of this statement is *universal*, since it is telling us something about *all* brilliant filmmakers. Indeed, the diagram shows us where *all* the brilliant filmmakers are located.

The predicate (P) is *distributed* because the statement does tell us something about *all* self-reliant people, namely that all of them are not brilliant filmmakers.
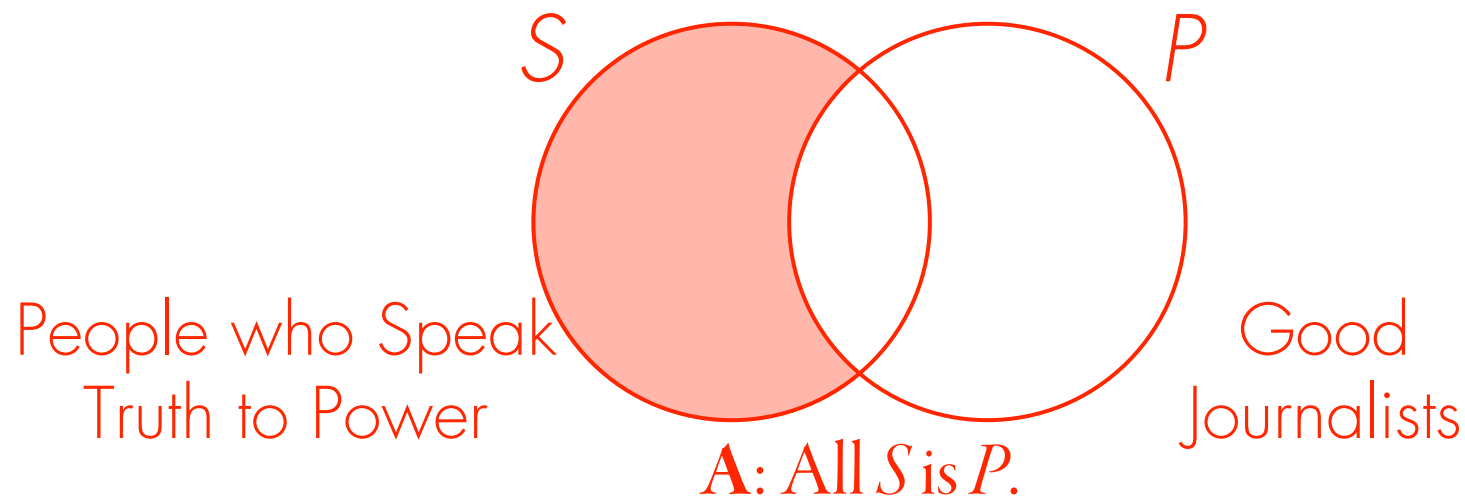
Only good journalists are people who speak truth to power.

The subject (S) is people who speak truth to power.

The predicate (P) is good journalists.

The Venn diagram for this statement:

S P

People who Speak
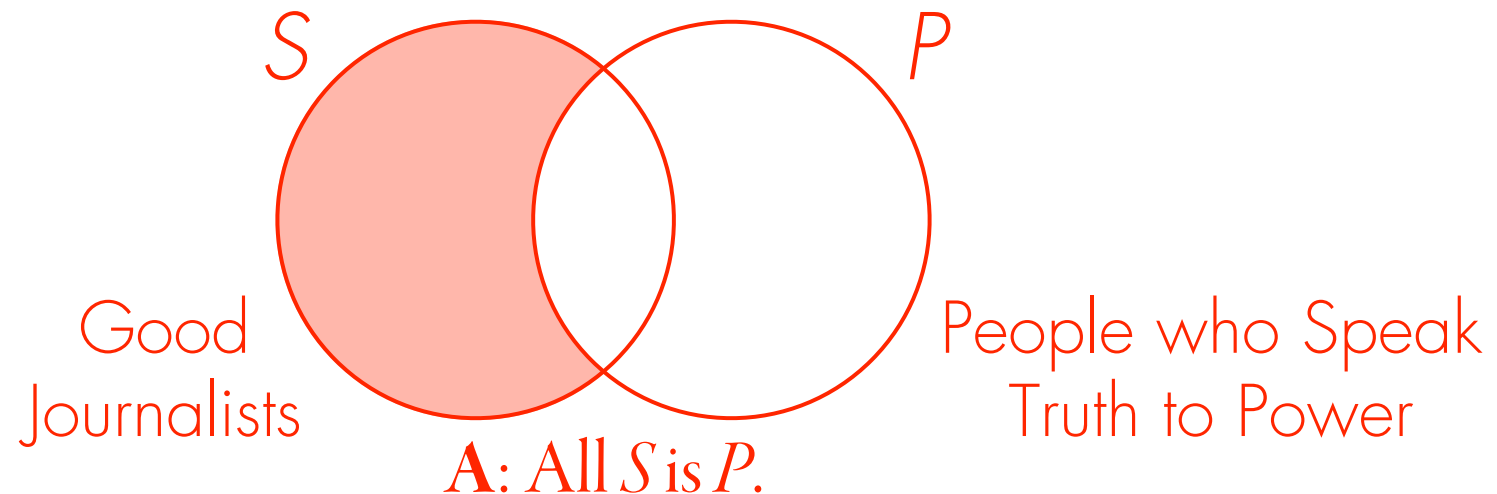Truth to Power

Good
Journalists

A: All S is P.

Part II, Problem 2 Solution

The only good journalists are people who speak truth to power.

The subject (S) is good journalists.

The predicate (P) is people who speak truth to power.

The Venn diagram for this statement:

S P

Good
Journalists   People who Speak
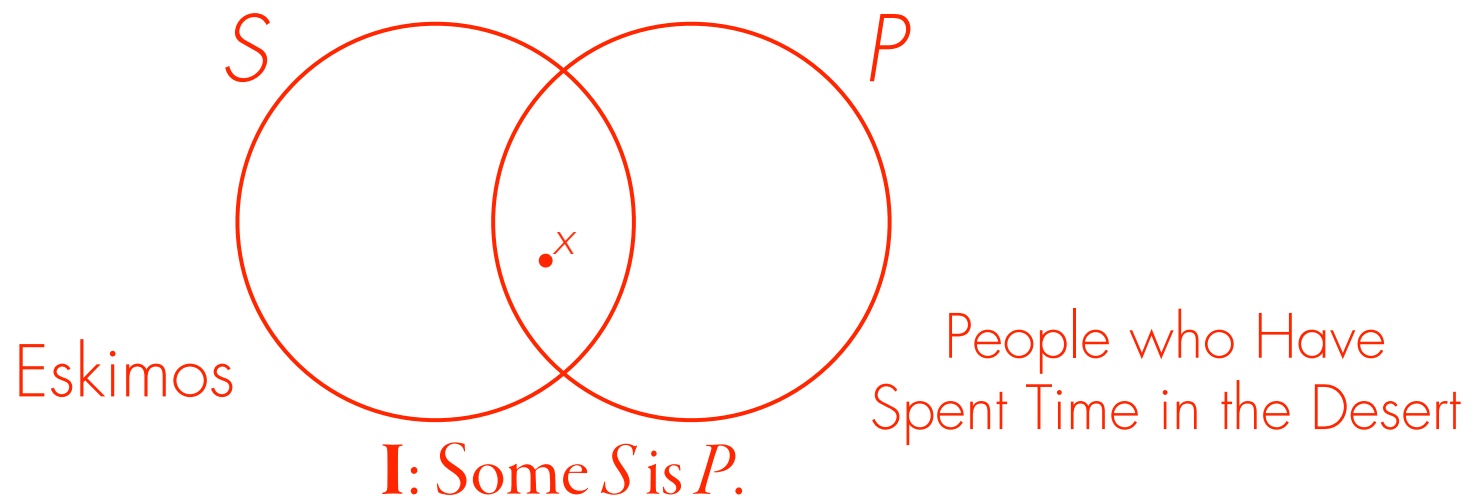Truth to Power

A: All S is P.

Part II, Problem 3 Solution

There are Eskimos who have spent time in the desert.

The subject (S) is Eskimos.

The predicate (P) is people who have spent time in the desert.
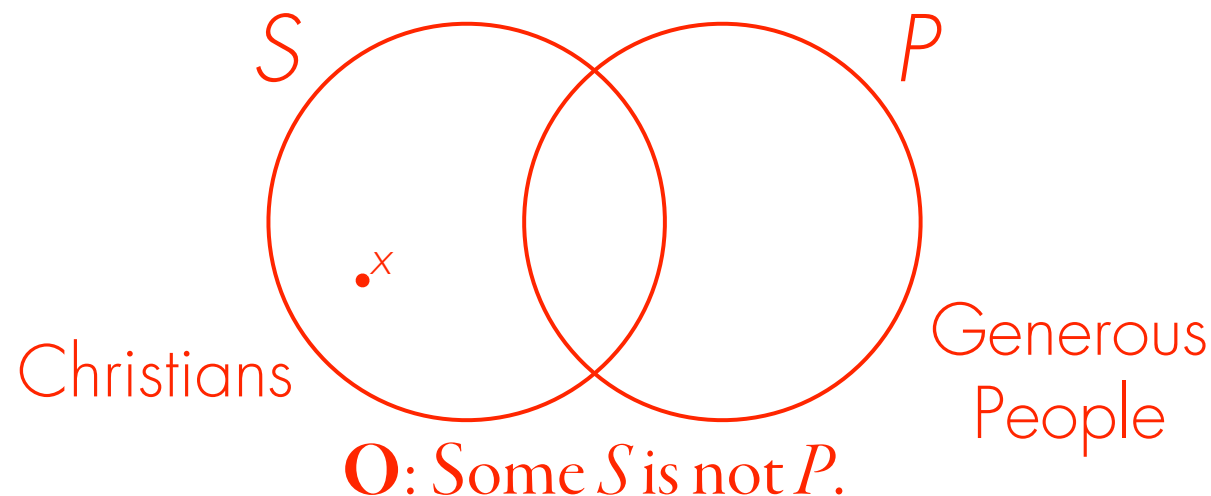
The Venn diagram for this statement:

S   P

•*x*

Eskimos

People who Have
Spent Time in the Desert

I: Some *S* is *P*.

Part II, Problem 4 Solution

Christians are not always very generous.

The subject (S) is Christians.

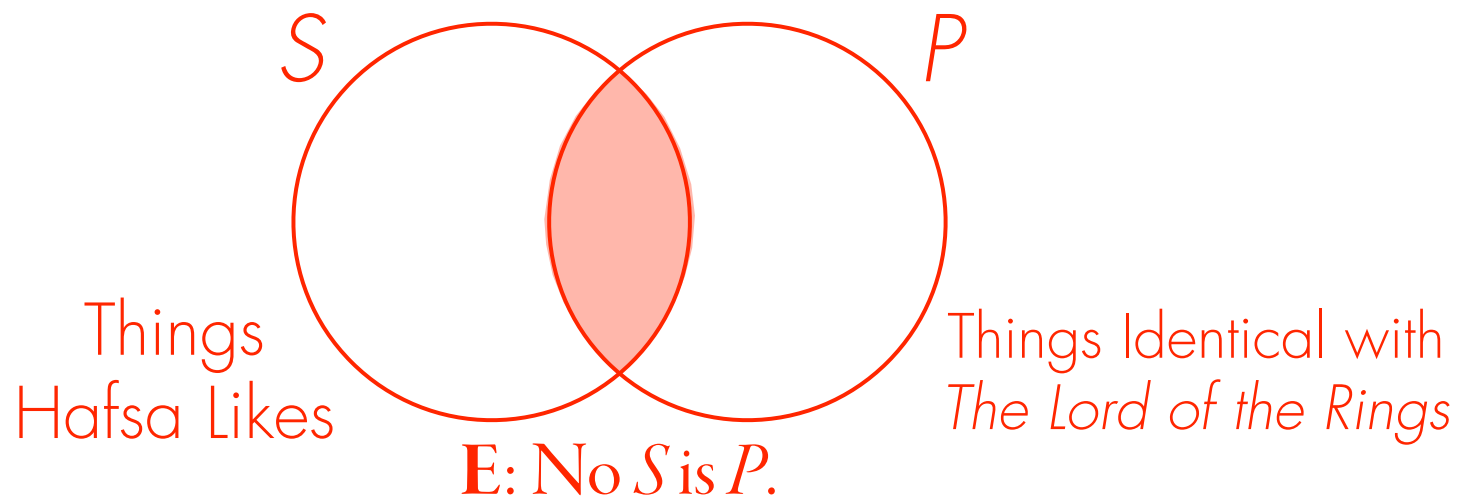The predicate (P) is generous people.

The Venn diagram for this statement:

S P

Christians   Generous People

O: Some S is not P.

Part II, Problem 5 Solution

Hafsa does not like *The Lord of the Rings*.

The subject (*S*) is things Hafsa likes.

The predicate (*P*) is things identical with *The Lord of the Rings*.

The Venn diagram for this statement:

S ⬭⬭ P

Things
Hafsa Likes

Things Identical with
The Lord of the Rings

E: No *S* is *P*.

Next Class…

We will see what we can infer from the truth of a single categorical statement. This will give us more practice using Venn diagrams.

Also, please don't forget to turn in your response to the Workshop #9 Questionnaire on your way out.