NAGOYA UNIVERSITY LIBRARY WORKSHOPS 2016





May 18 ~ June 15, 2016

Instructor: Dr. Paul Lai

NAGOYA UNIVERSITY LIBRARY WORKSHOPS 2016

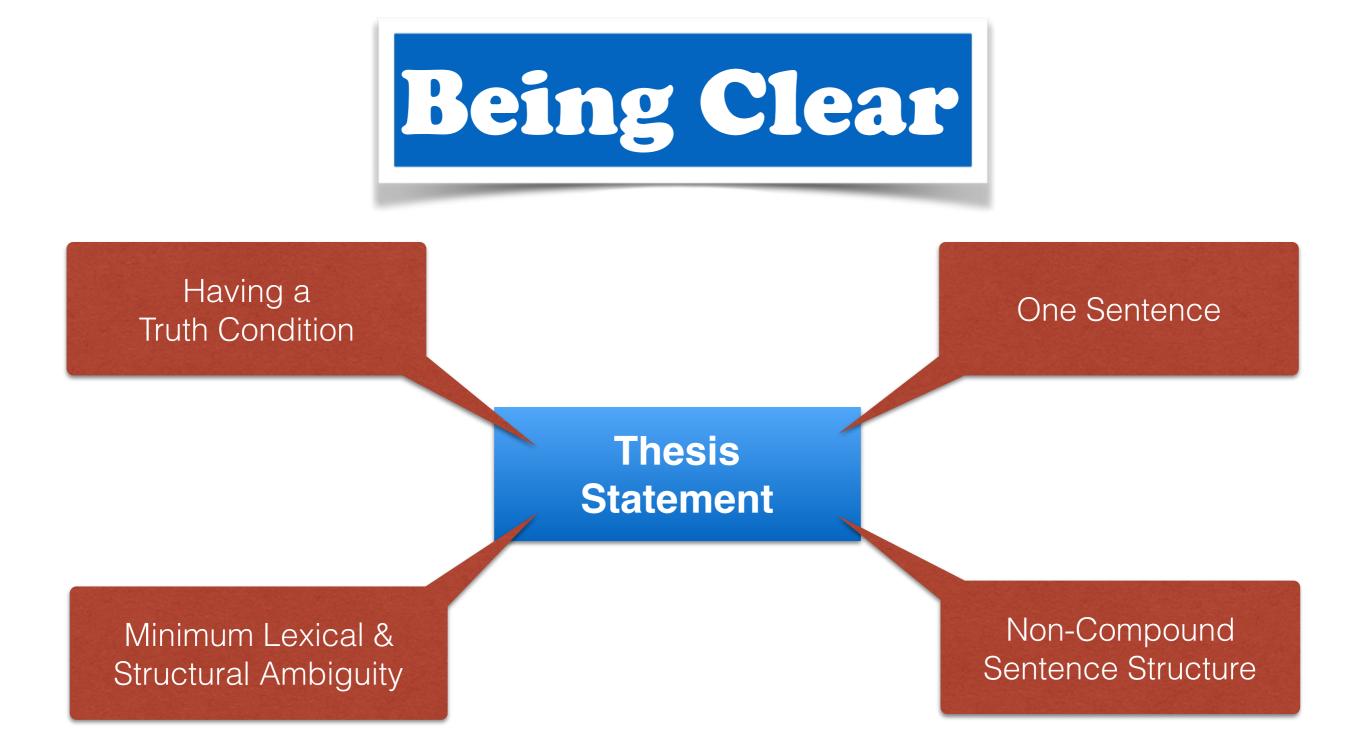


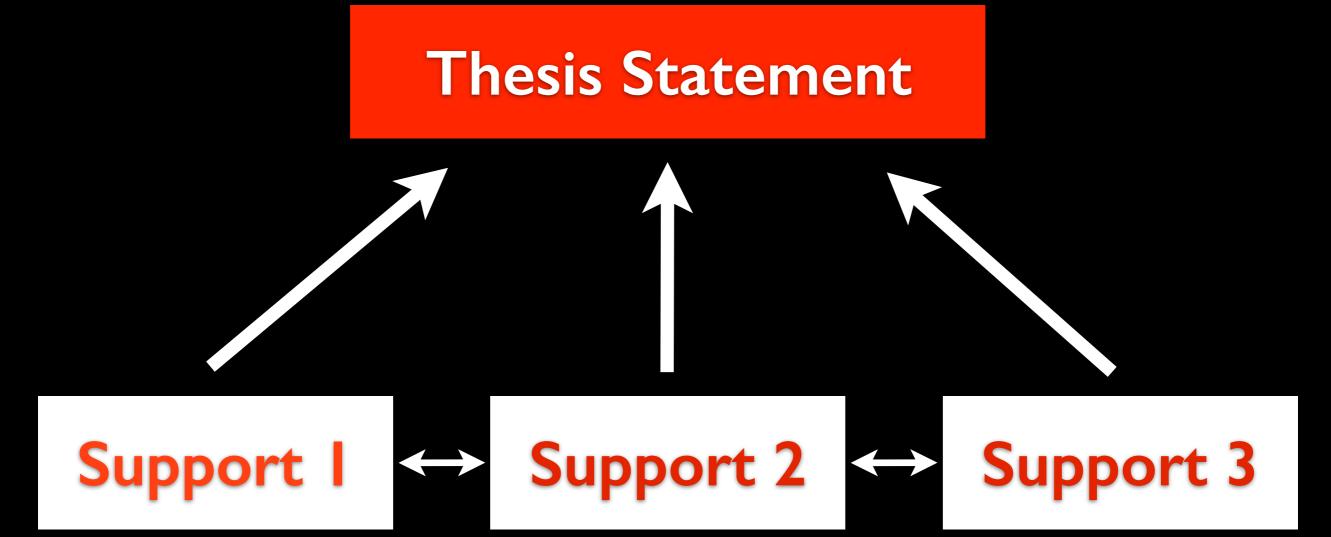
Review

All academic writers are required to know

The Writing Requirement How words can be properly arranged to express the ideas.

The Thinking Requirement How ideas can be properly arranged so that they can be properly expressed through words in a clear & convincing manner.





The Thesis Statement Recipe

Textbook for the Nagoya University Library workshop series on Academic Writing & Logical Thinking Skills



Written by Paul W. L. Lai, Ph.D Director, Nagoya UniversityWriting Center (Mei-Writing)



(Homework)

(i) Think about a paperthat you are planningto write.

(ii) Develop a thesisstatement for thepaper.

(iii) Presenting yourthesis statement onJune 15.

Try to make the following reason convincing:

Peter cannot submit the assignment on Monday because his computer broke down on Saturday.



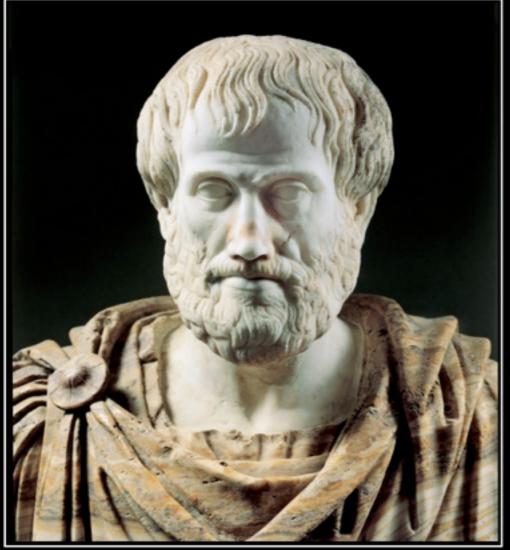
How to use logic practically

学術論文の基本的な目的は、結論へと至る論理的ステップを提示することによって、 論文の主張する結論を受け入れるよう読者を説得することである。

What is logic?

WRITING 教養教育院 学術論文の基本的な目的は、結論へと至る論理的ステップを提示することによって、 論文の主張する結論を受け入れるよう読者を説得することである。

An Instrument for Acquiring Knowledge



ARISTOTLE

Logic is the "organon", or instrument of thought, which is specifically used for acquiring knowledge.

According to Aristotle, we would not come to know anything without logic.

384-322 BC

KNOWLEDGE ACQUISITION

When you see many people inside a subway station wearing a wet raincoat or carrying a wet umbrella, what can you tell?



KNOWLEDGE ACQUISITION

INFERENTIAL RELATION

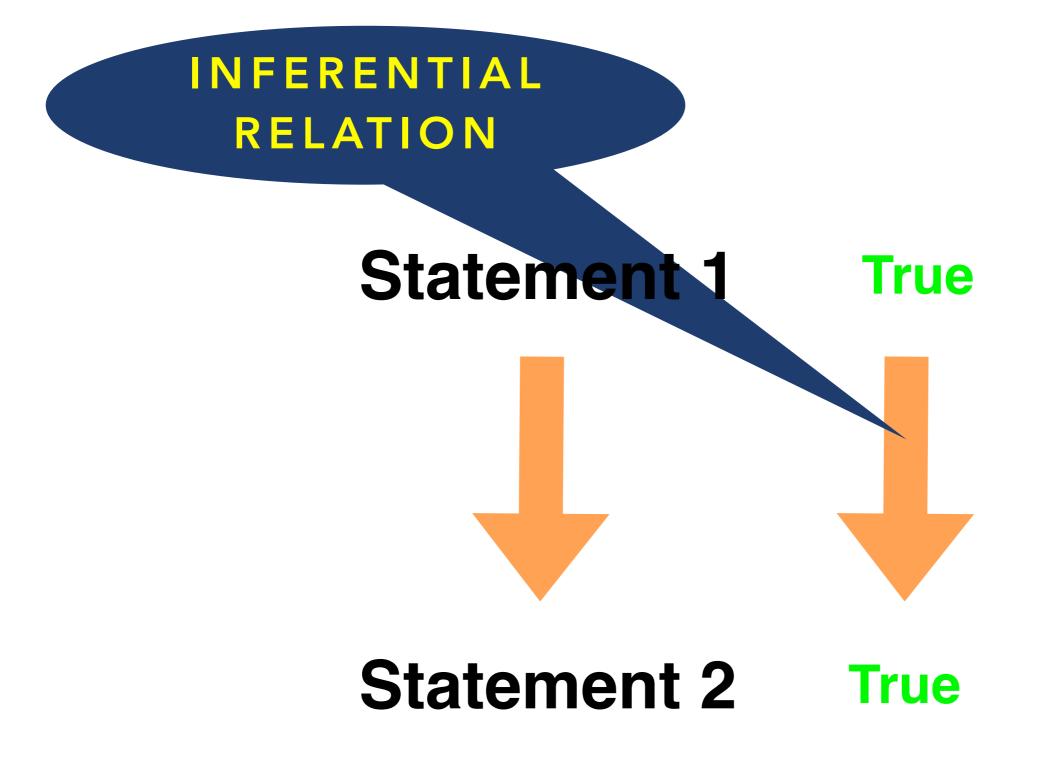
Wet raincoats

Rain outside

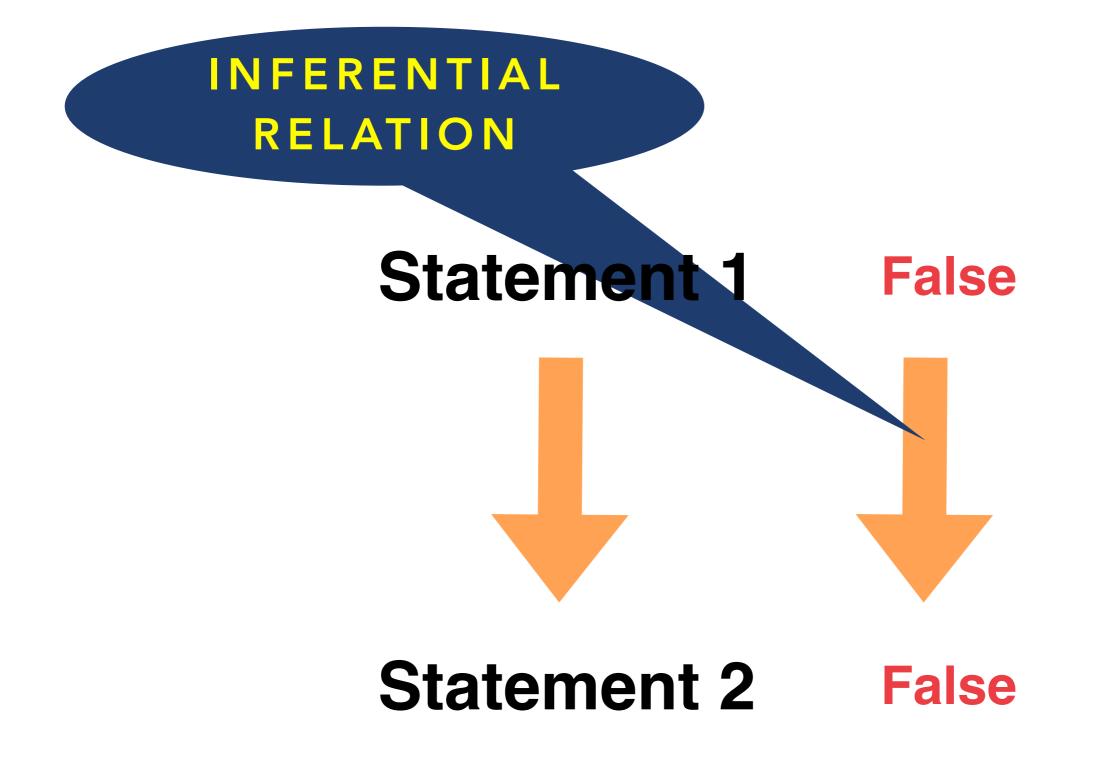
学術論文の基本的な目的は、結論へと至る論理的ステップを提示することによって、 論文の主張する結論を受け入れるよう読者を説得することである。

What is inference P

WRITING 教養教育院



e.g. If Peter is in Tokyo, then Peter is in Japan.



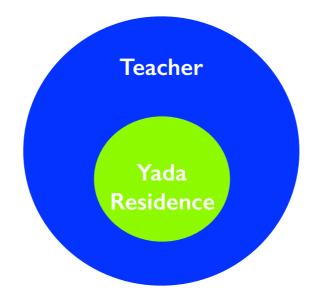
e.g. If Peter is not in Japan, then Peter is not in Tokyo.

学術論文の基本的な目的は、結論へと至る論理的ステップを提示することによって、 論文の主張する結論を受け入れるよう読者を説得することである。

The truth/falsity of statement 1 affects the truth/falsity of statement 2

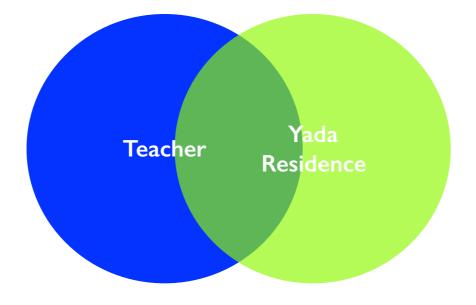
All people who live in Yada Residence are teachers.

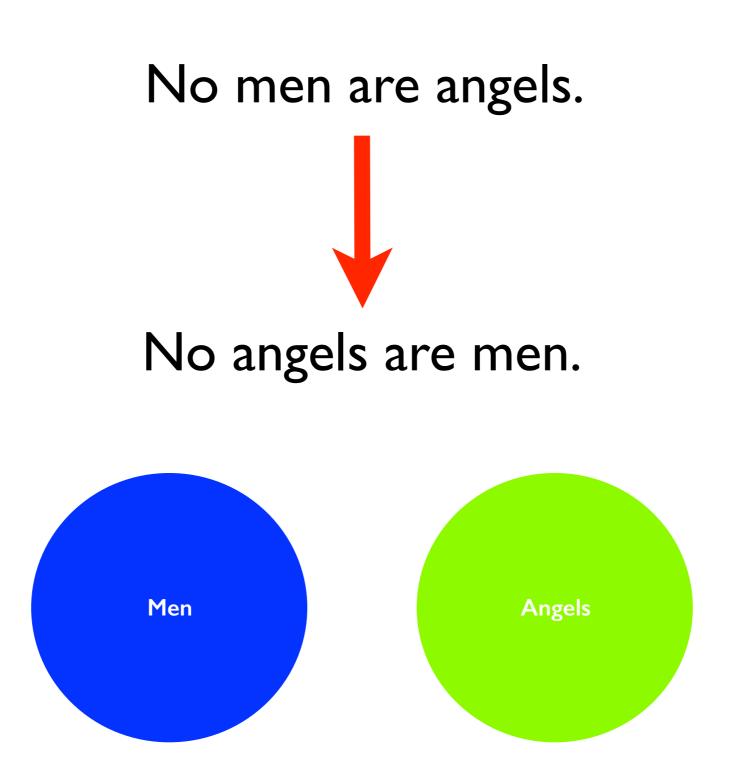
No one who lives in Yada Residence is not a teacher.



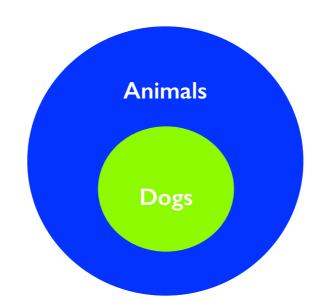
Some people who live in Yada Residence are teachers.

Some people who live in Yada Residence are not teachers.



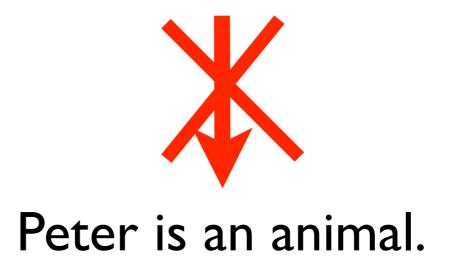


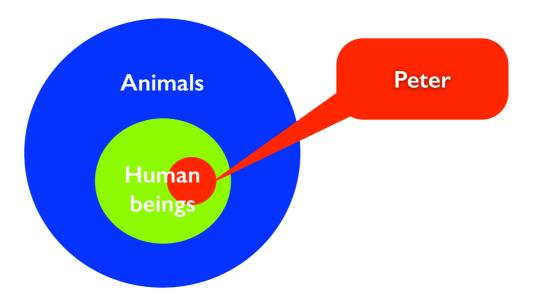
All dogs are animals.



All animals are dogs.

All human beings are animals.

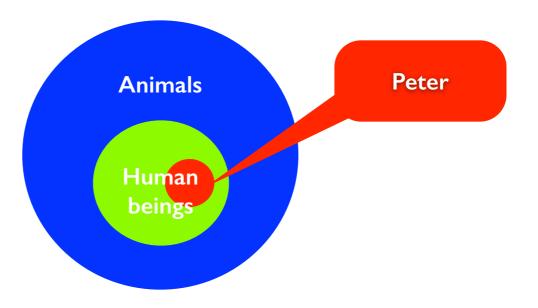




All human beings are animals.

Peter is a human being.

Peter is an animal.



Understanding **how to make logical inference** is vital for understanding logic

Exercises on logical inference 1

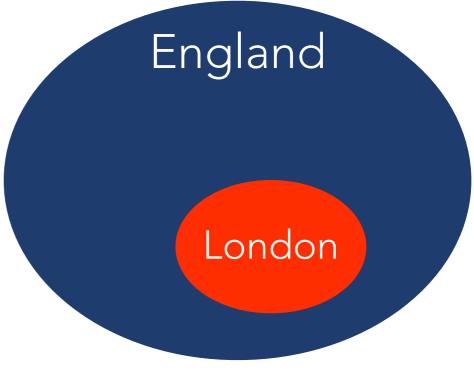
Logical Inference

Premise Conclusion

Part A of the exercises is designed to train you how to make a proper inference based on a premise. Each one of the exercises comes with (i) one statement corresponding to a factual event, and (ii) four inference choices that follow from (i). Although more than one of the four choices might be logical, you need to find out the one that is most likely / certainly true following from the truth of (i).



Ex-1. Paul is in London.

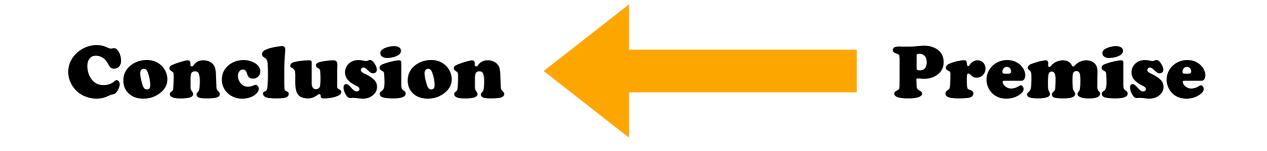


(a) Paul is on a business trip.(b) Paul will not come back to Japan for a while.

- (c) Paul is in England.
- (d) Paul likes London.

Exercises on logical inference 2

Logical Inference



Part B is designed to train you how to find the proper premise for a conclusion.

Each one of the exercises comes with one conclusion and four premises. Find out the premise without which the conclusion is most certainly false. Note that your consideration is restricted to the four possible premises only, and you are supposed to choose, among the four, the one that provides the necessary support for the conclusion. Further note that additional premise or premises may be needed in order to make the conclusion true.

Fun Exercise!! Solving Logical Puzzles

Puzzle 1:

Who is doing what?

Alonzo, Kurt, Rudolf, and Willard are four creative artists of great talent. One is a dancer, one is a painter, one is a singer, and one is a writer, though not necessarily in that order.

- (1) Alonzo and Rudolf were in the audience the night the singer made his debut on the concert stage.
- (2) Both Kurt and the writer have had their portraits painted from life by the painter.
- (3) The writer, whose biography of Willard was a best-seller, is planning to write a biography of Alonzo.

(4) Alonzo has never heard of Rudolf.

What is each man's artistic field?

Thank you very much

