

LRP WEEK 5-2: SUPPORT

1 | HOW TO BE SUPPORTIVE

Recall the two types of desiderata (things we want) for a good argument map:

Support

In a good argument, the premises **support** the conclusion in that *if* the premises are true, we have good reason to think that the conclusion is true.^a

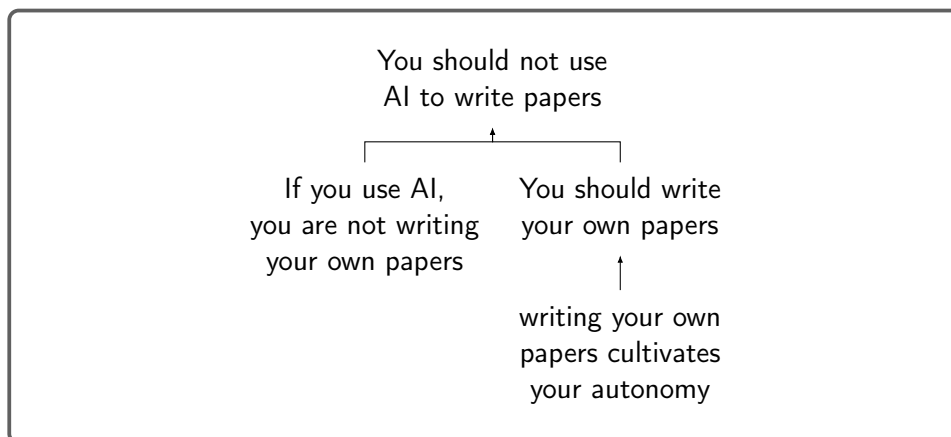
- a. **Note:** In a truth-preserving argument, the premises *guarantee* the conclusion. Thus, if the premises are true, we have very good reason to think the conclusion is true (since it *must* be true). So in a truth-preserving argument, the premises *support* the conclusion.

Rules of Argument Mapping

1. **Simple Statements:** each premise should be a simple statement.
 - (a) It should be a **statement**: something that can be true or false.
 - (b) It should be as **simple** as possible.
2. **Mutual Dependence:** the premises in a one-step argument (or each step of a multi-step argument) should be mutually dependent. That is, they should be able to support the conclusion *only* together with all of the other premises.

Suppose we have an argument map that follows the rules of simple statements and of mutual dependence. Does that mean the argument is good? Not quite. Rather, it means that we are in a good position to evaluate whether it is good.

Let's for instance analyze an argument from the previous handout.



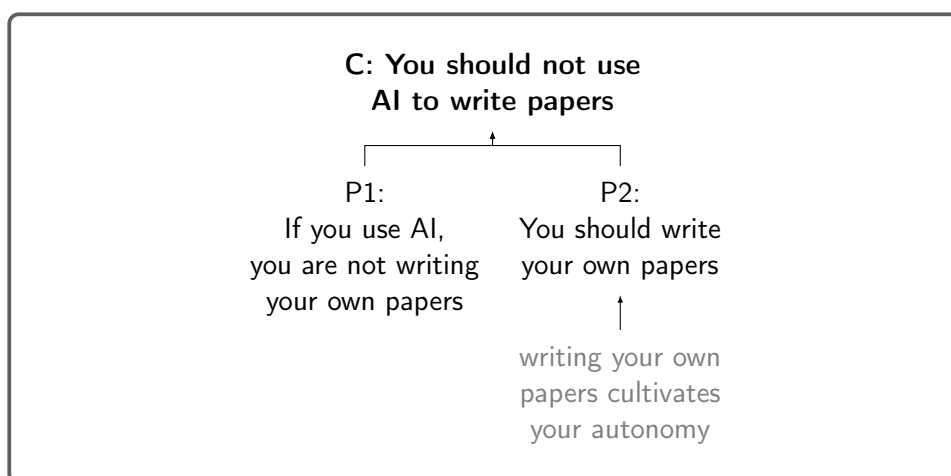
This argument map follows the rules of simple statements and the rule of mutual dependence. So it remains to see if the conclusions at each level are adequately supported by the premises below them.

Recipe for Evaluating Support

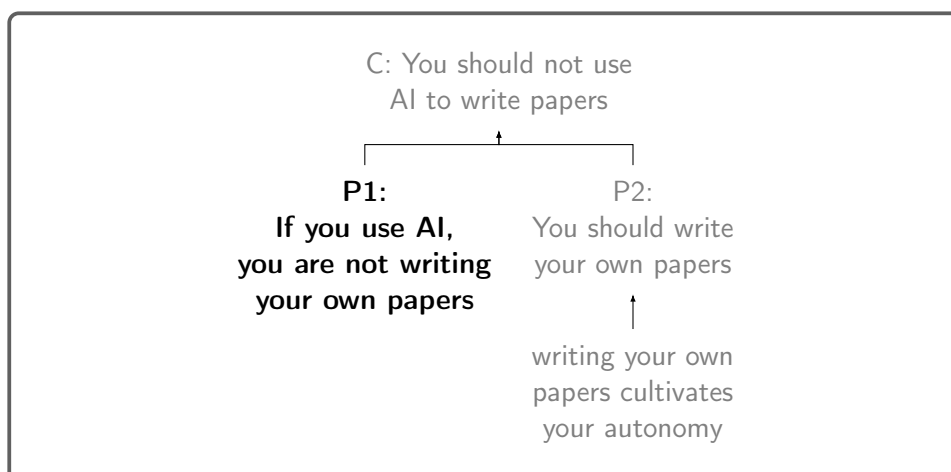
Here's our recipe. We start at the top level. Then,

1. For each statement at the current level, go down a level and see if the premises there support the statement: if their truth would give you good reason to believe the statement. Ignore any further levels.
2. If more premises are needed at the lower level, add them. If a conclusion has no premises, you can add premises below it or simply "grant" it.
3. Go to the next level down and repeat.

Let's implement it for the argument above. I'll start at the top level (bolded), go one level down, and ignore further levels (greyed out).

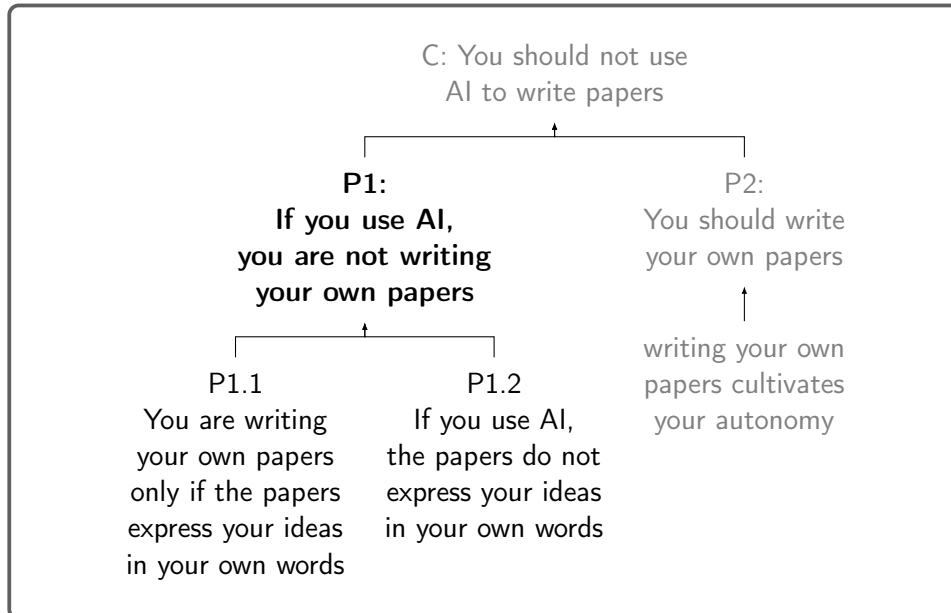


Do the two premises together give us good reason to believe the conclusion? Use your judgement: but I think they do. So let's move to the next level and consider **P1** and **P2** in turn. Start with **P1**:

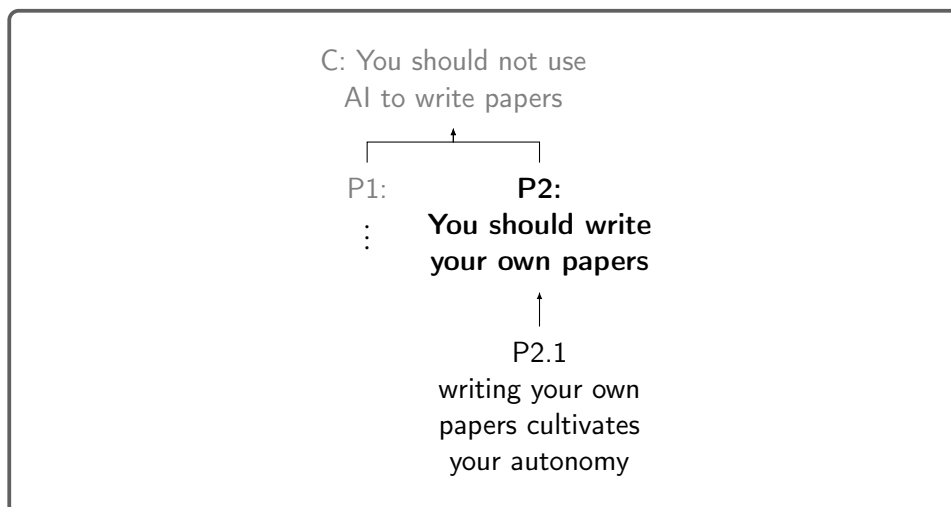


Perhaps you agree with this statement already, and think no further argument is necessary. But suppose we ask: *why* is it that if you use AI, you are not writing your own papers?

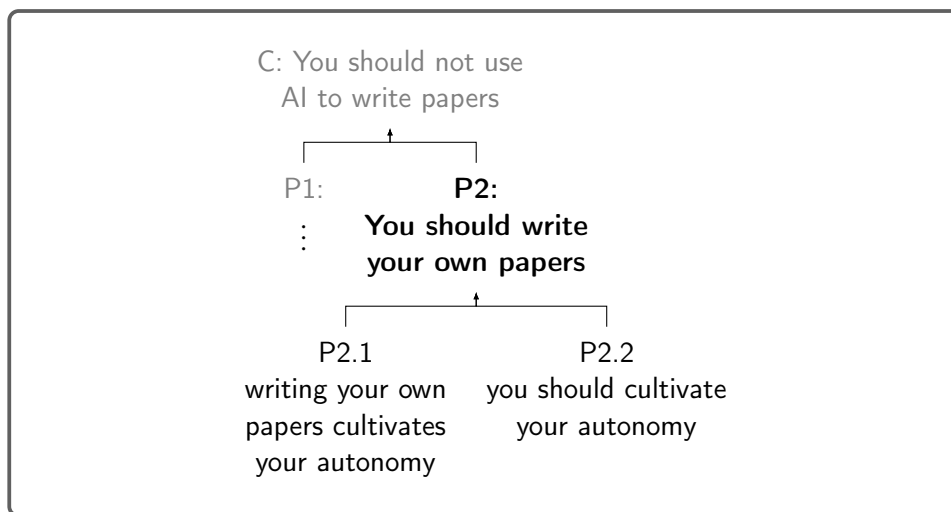
Recall that Aylsworth and Castro argue as follows: you are writing your own papers only if the paper expresses your own ideas and are in your own words. So we could add this argument below P1:



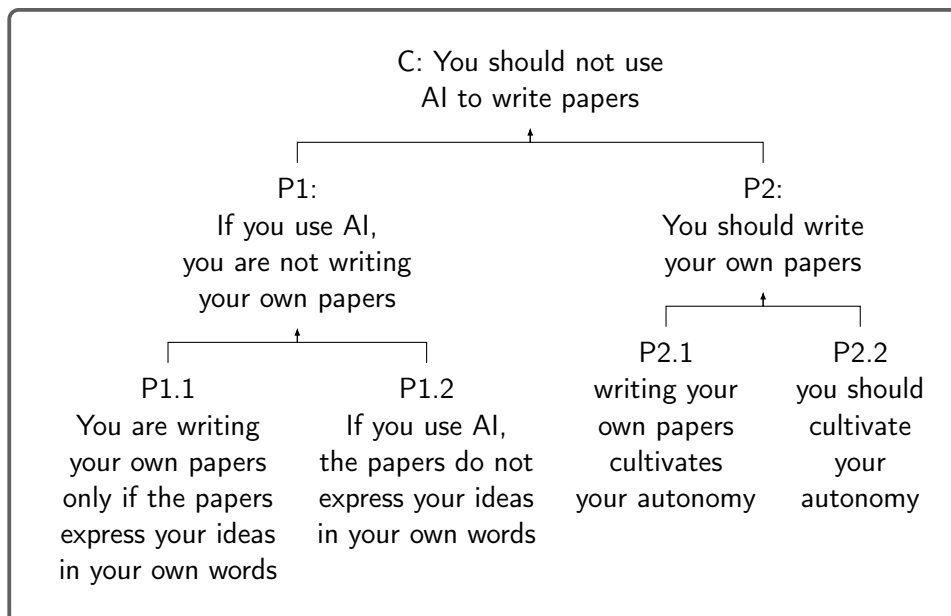
Let's move now to P2, setting P1 aside for now:



Here, we have a premise, P2.1, that supports P2. But we can ask: *why* does the fact that writing your own papers cultivates your autonomy support the claim that you should write your own papers? It seems we're missing a link in the argument. What's missing? Well, P2 is about something you *should* do, and P2.1 talks about cultivating autonomy, but the link between the two is not entirely obvious. We should add a premise that links the two: the argument makes sense if we suppose that you should cultivate your autonomy.



After doing our steps with P1 and P2, our entire argument map (so far) looks like this:



At this point, the next task would be to continue the steps with P1.1, P1.2, P2.1, and P2.2, until we're satisfied with the reasoning for all of the premises at all of the levels. Depending on how thorough we want to be, we could go further and further.¹

1. And more advanced philosophy is often the practice of going *annoyingly far* into these argument maps.

2 | THE VARIETIES OF SUPPORT

Premises can support their conclusions in different ways. Here are two axes on which premises can differ in how they support their conclusions:

- 1. The support can be **theoretical** (giving reasons for belief) or **practical** (giving reasons for action).
- 2. The support can be **deductive** (logical) or **inductive** (empirical).

Support: Theoretical or Practical

To figure out if support is theoretical or practical, ask if the conclusion claims that something is **true**, or whether it says that you should or ought to **do** something.

Theoretical Support: Deductive or Inductive

To figure out if support for a theoretical conclusion is deductive or inductive, ask: supposing that the premises are true, do I think that the conclusion is **more likely**, or that it the conclusion is **guaranteed** as a matter of logic?

Practical Support: Deductive or Inductive?

To figure out if support for a practical conclusion is deductive or inductive, ask: supposing that the premises are true, do I have **conclusive** reason to do what the conclusion says, or only defeasible, “**other-things-equal**” reason?

Combining all of this, we can create the following table:

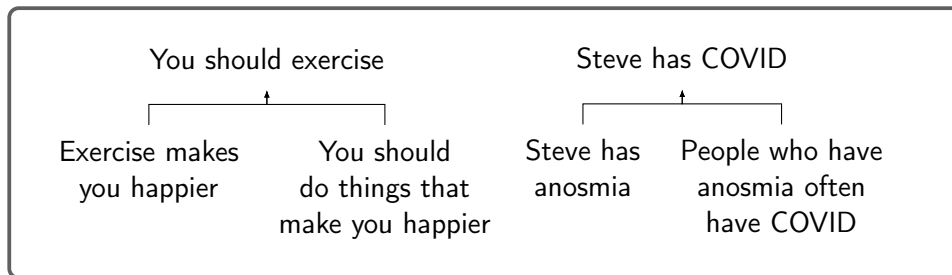
The Varieties of Support

Assuming that we accept the premises:

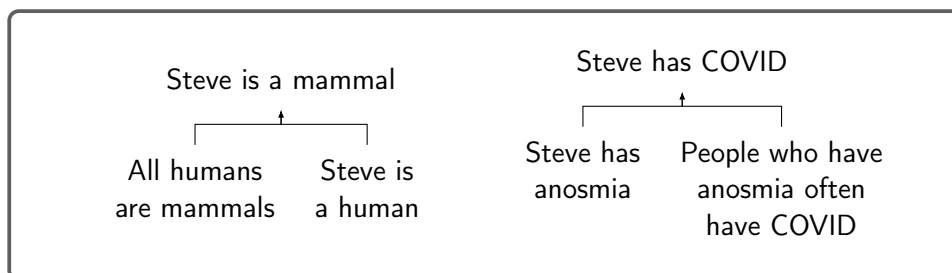
	Deductive (Logical)	Inductive (Empirical)
Theoretical (what to believe)	guarantees truth of conclusion	makes conclusion more likely to be true
Practical (what to do)	gives conclusive reason for action	gives “other-things-equal” reason for action

Our talk of truth-preserving logic machines so far has been in the *deductive* end of things. Now we’re zooming out and considering support more generally. In the second half of the class we will be consider *inductive* reasoning more closely.

Exercise: which one is theoretical, and which practical?



Below are two arguments giving theoretical support to a conclusion. Which one is deductive (logical), and which one is inductive (empirical)?



Below are two arguments giving practical support to a conclusion. Which one is deductive (logical), and which one is inductive (empirical)?

