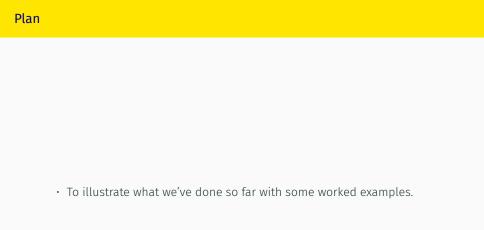
305 Lecture 50 - Example Models

Brian Weatherson

August 3, 2020





 $\boldsymbol{\cdot}$ Boxes and Diamonds, section 3.6 and 3.7.

Examples

I'm going to go through the table on page 49 of the textbook, and show how there can be models where each of them is false. And I'll add a couple more in besides.

Examples

I'm going to go through the table on page 49 of the textbook, and show how there can be models where each of them is false. And I'll add a couple more in besides. Here is what we'll cover

1.
$$\Box(A \lor B) \to (\Box A \lor \Box B)$$

2.
$$(\lozenge A \land \lozenge B) \rightarrow \lozenge (A \land B)$$

3.
$$A \rightarrow \Box A$$

4.
$$\Box A \rightarrow A$$

5.
$$\square \lozenge A \to B$$

6.
$$\square \diamondsuit A \rightarrow A$$

7.
$$\Box \Box A \rightarrow \Box A$$

8.
$$\Box A \rightarrow \Box \Box A$$

9.
$$\Box \Diamond A \rightarrow \Diamond \Box A$$

10.
$$\Box A \rightarrow \Diamond A$$