Reminder: Logic of Knowledge and Belief

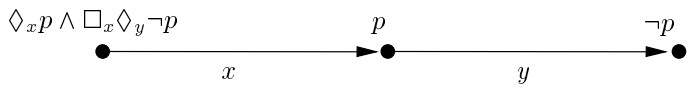
- $\Diamond_x \varphi \approx$ "Agent x believes that φ is true"
- $\Box_x \varphi \approx$ "Agent x knows that φ is true"

E.g.

$\Diamond_x p \wedge \Box_x \Diamond_y \neg p$

"Agent x believes p and knows that Agent y believes $\neg p$"

An example model:



It is not immediately clear what a world represents here and which class of frames we should use.