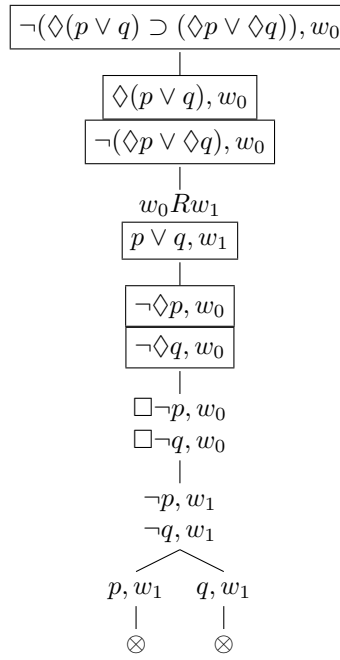


A substantial proof, showing most of the features of QTree.



Let's try to typeset a proof from the beginning. Is the following set of premises satisfiable in a language with no restrictions on the world-relation R ?

$$\mathcal{H} = \{(p \supset q), (r \vee \neg q), \neg r, \neg p\}$$

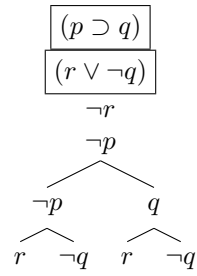
First, construct a tree with our premises as its root.

$$\begin{array}{c} (p \supset q) \\ (r \vee \neg q) \\ \neg r \\ \neg p \end{array}$$

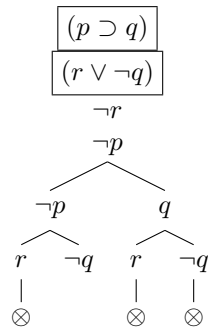
Expand the first premise, $p \supset q$, into its equivalent disjunction, and box it:

$$\begin{array}{c} \boxed{(p \supset q)} \\ (r \vee \neg q) \\ \neg r \\ \neg p \\ \wedge \\ \neg p \quad q \end{array}$$

Do the same for the next disjunction:



Close off those branches of the tree that are contradictory:



And we're done! Sure enough, this set is satisfiable.