# axiom



The *axiom* command recognises goals that are unconditionally valid, and marks them as being proven. As no sub-goals are generated, a pop-up message appears to confirm that the goal has been proven. It is rarely applied explicitly by the user, as cadiz automatically applies it whenever a sub-goal is generated to which it is applicable.

The goals that are regarded as axioms are ones that have a *true* consequent,

$$\vdash ?\ true$$

or a *false* antecedent,

$$|\ false \vdash ?$$

or a consequent that is identical to an antecedent.

$$|\ p \vdash ?\ p$$

The command can be applied to the whole goal, or to any of the predicates that make the goal an axiom.

# 1. Tactic example

*"axiom" g*

This example applies the *axiom* command to goal $g$. The whole goal can always be referred to in a tactic as 0, which is useful when no joker bound to the goal is available.

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