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— Module traffic_light -
Variable color
AcceptableColor \triangleq color \in \{\text{"red"}, \text{"green"}, \text{"yellow"}\}
AlwaysAcceptableColor \triangleq \Box AcceptableColor
 (for use as spec PROPERTY, in lieu of INVARIANT, meaning state "must always be an acceptable color")
Init \stackrel{\triangle}{=} color = "red"
TurnGreen \triangleq
     \land \ color = \text{``red''}
     \land \mathit{color'} = "\mathsf{green"}"
Turn Yellow \triangleq
     \land \ color = \text{``green''}
     \land color' = "yellow"
TurnRed \triangleq
     \land color = "yellow"
     \land \mathit{color'} = "\mathsf{red"}
Next \triangleq
     \vee TurnGreen
     \vee Turn Yellow
     \vee TurnRed
```

(this formula can, as SPECIFICATION, replace INIT/NEXT declaration in the model config)

 $Spec \stackrel{\triangle}{=} Init \wedge \Box [Next]_{color}$