

# QuickChick Quick Start

Will Thomas

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## 1 Introduction

Rather than providing explicit proofs for theorems in Coq, we can test them using QuickChick and then assume that they hold if QuickChick cannot disprove them. This functionality is offered in the form of "Conjectures": A **Conjecture** is the QuickChick equivalent of a normal Coq axiom.

*Conjecture < name >:< Propyouwishtocheck > .*

This is essentially syntactic sugar for:

*Theorem < name >:< Propyouwishtocheck > .Admitted.*

## 2 TypeClasses

## 3 QuickChick

## 4 Case Study

## 5 Summary and Use