

TESTING PROPERTIES WITH QUICKCHECK

@steshaw

QUICK OVERVIEW OF QUICKCHECK

- Demo (basics)

APPEAL TO AUTHORITY

- Better than unit tests, Michael Nygard (2013)

TESTING UI

- Choose your own adventure — randomised user actions.
- Demo (arbitrary)

TESTING CONCURRENT SYSTEMS WITH QUICKCHECK

... or ...

- Concurrent
- with
- Testing
- QuickCheck
- Systems

TESTING CONCURRENT SYSTEMS (CONT.)

- Google for “Erlang QuviQ”
- These ideas apply also to distributed systems.

REFERENCES

- [Original QuickCheck paper from 2000 by Koen Claessen and John Hughes \(PDF\)](#)
- [QuickCheck on Hackage](#)

REFERENCES— CONCURRENT SYSTEMS

- [Erlang's QuickCheck](#)
- [Testing Erlang Concurrency with QuickCheck \(PDF\)](#)
- [Finding Race Conditions in Erlang with QuickCheck and PULSE \(PDF\)](#)

REFERENCES— DISTRIBUTED SYSTEMS

- [Testing Telecoms Software with Quviq QuickCheck \(PDF\)](#)
- [Modeling eventually consistent databases with QuickCheck \(Video\)](#), Jon Meredith, Basho.