# Testing properties with QuickCheck

### 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

- QuickCheck on Hackage
- Original QuickCheck paper by Koen Claessen and John Hughes (2000)

#### References—Concurrent Systems

- Erlang's QuickCheck
- Testing Erlang Concurrency with QuickCheck
- Finding Race Conditions in Erlang with QuickCheck and PULSE

#### References—Distributed Systems

- Testing Telecoms Software with Quviq QuickCheck
- Modeling eventually consistent databases with QuickCheck (Video), Jon Meredith, Basho.