Lets talk about jqwik
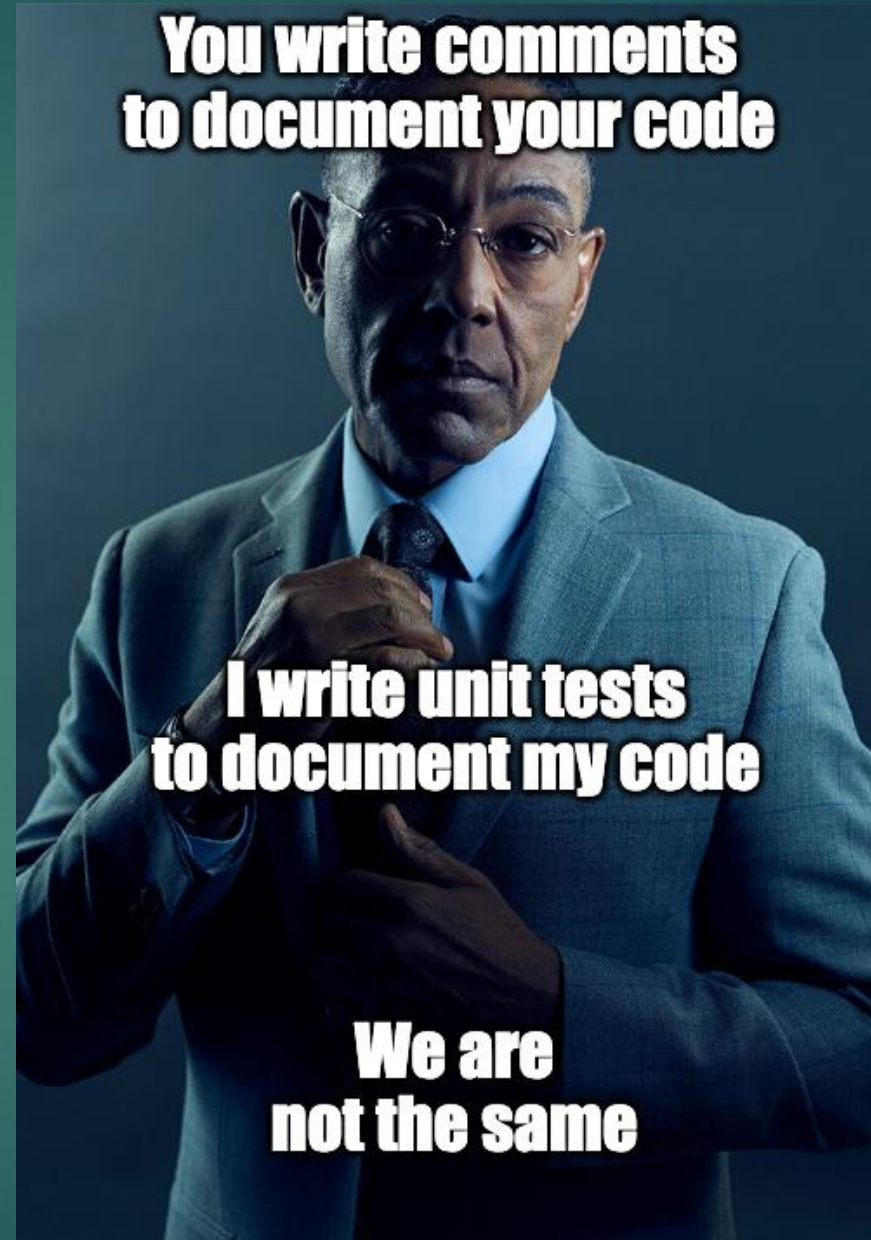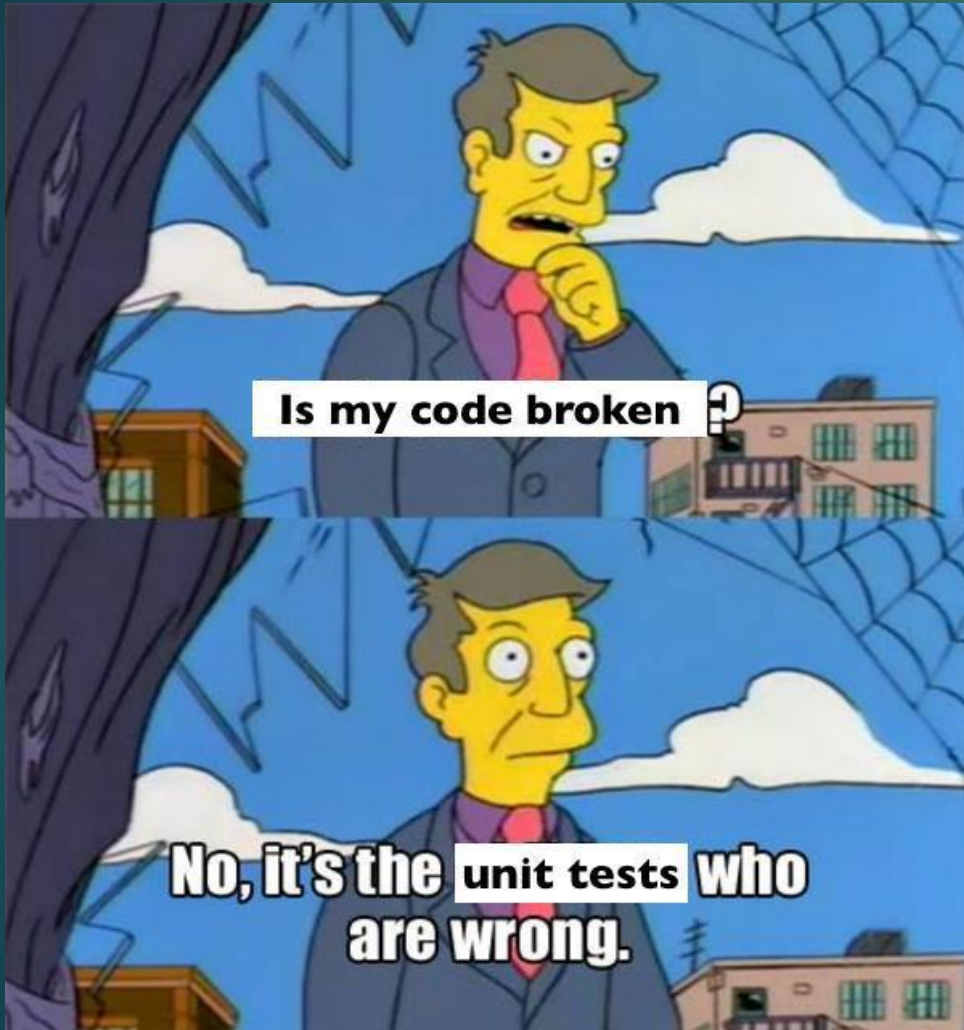
PROPERTY-BASED TESTING IN JAVA

What is jqwik

- Test engine for Junit 5
- Generates randomized test data
- Concentrate on properties not examples
  - *Under what preconditions and constraints (e.g. the range of input parameters) should the functionality under test lead to which postconditions (results of a computation)? And which invariants should never be violated in the course?*

Jqwik Demo

jqwik and what we have learned so far

- Follows/Supports unit test principles
  - Fast, Isolated, Repeatable, Self-Validating, Timely
- Abstracts from concrete Values
  - concentration on the behaviour
- Better representation of a degree of freedom

Dangers of jqwik

Resources

- The Project https://jqwik.net/
- Java Magazin https://entwickler.de/java/property-based-testing-mit-java