JUnit 5

Some nice new features

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Code without test is not clean.

Disclaimer

- tried to show differences to JUnit4
- get impression of some new stuff
- no guarantee on completeness
- guaranteed totally stupid examples :-)

Sources

- junit.org
- blog.scottlogic.com
- Baeldung

Switch from JUnit4 to JUnit5

changed Annotations

JUnit4	JUnit5
@Before / @After	@BeforeEach and @AfterEach
@BeforeClass / @AfterClass	@BeforeAll / @AfterAll
@Ignore	@Disabled
@Category	@Tag
@RunWith , @Rule and @ClassRule	"superseded" by @ExtendWith

Switch from JUnit4 to JUnit5

new Annotations

Annotation	Description
@DisplayName("descriptive name")	descriptive name instead of Methodname
@Nested	nesting classes to structure tests
@RepeatedTest(count)	repeat a test (but what for)
@ParameterizedTest	more to come :-)

@ParameterizedTest

- separation of test code and test cases
- different sources for test cases
    - `@ValueSource`
    - `@EmptySource`/`@NullSource`/`@NullAndEmptySource`
    - `@EnumSource`
    - `@CsvSource`/`@CsvFileSource`
    - `@MethodSource`

Interesting Stuff

Testing exceptions

```
Exception assertThrows(ExceptionClass, Executable)
```

Testing multiply asserts at once

```
void assertAll(Executable ...);
```

Testing runtime

```
void assertTimeout(Duration, Executable);
```