

SQA-050

Selenium Webdriver

Раздаточный материал

Модуль 2. Раздаточный материал

| **Annotation** | **Description** |
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| @Test | Обозначает, что метод является тестовым методом. В отличие от аннотации @Test в JUnit 4, эта аннотация не объявляет никаких атрибутов, поскольку тестовые расширения в JUnit Jupiter работают на основе своих собственных выделенных аннотаций. Такие методы наследуются, если они не переопределены. |
| @ParameterizedTest | Обозначает, что метод является параметризованным тестом. Такие методы наследуются, если они не переопределены. |
| @RepeatedTest | Обозначает, что метод является шаблоном теста для повторного теста. Такие методы наследуются, если они не переопределены. |
| @TestFactory | Обозначает, что метод является фабрикой тестов для динамических тестов. Такие методы наследуются, если они не переопределены. |
| @TestTemplate | Обозначает, что метод является шаблоном для тестовых случаев, предназначенных для многократного вызова в зависимости от количества контекстов вызова, возвращаемых зарегистрированными поставщиками. Такие методы наследуются, если они не переопределены. |
| @TestMethodOrder | Используется для настройки порядка выполнения тестового метода для аннотированного тестового класса; похож на @FixMethodOrder JUnit 4. Такие аннотации наследуются. |
| @TestInstance | Используется для настройки жизненного цикла экземпляра теста для аннотированного класса теста. Такие аннотации наследуются. |
| @DisplayName | Объявляет настраиваемое отображаемое имя для класса теста или метода теста. Такие аннотации не наследуются. |
| @DisplayNameGeneration | Объявляет пользовательский генератор отображаемого имени для тестового класса. Такие аннотации наследуются. |
| @BeforeEach | Обозначает, что аннотированный метод должен выполняться перед каждым методом @Test, @RepeatedTest, @ParameterizedTest или @TestFactory в текущем классе; аналогично JUnit 4's @Before. Такие методы наследуются, если они не переопределены. |
| @AfterEach | Обозначает, что аннотированный метод должен выполняться после каждого метода @Test, @RepeatedTest, @ParameterizedTest или @TestFactory в текущем классе; аналогично JAnit 4's @After. Такие методы наследуются, если они не переопределены |
| @BeforeAll | Обозначает, что аннотированный метод должен выполняться перед всеми методами @Test, @RepeatedTest, @ParameterizedTest и @TestFactory в текущем классе; аналогично @BeforeClass JUnit 4. Такие методы наследуются (если они не являются скрытыми или переопределенными) и должны быть статическими (если не используется жизненный цикл экземпляра для каждого класса). |
| @AfterAll | Обозначает, что аннотированный метод должен выполняться после всех методов @Test, @RepeatedTest, @ParameterizedTest и @TestFactory в текущем классе; аналогично @AfterClass JUnit 4. Такие методы наследуются (если они не являются скрытыми или переопределенными) и должны быть статическими (если не используется жизненный цикл экземпляра для каждого класса). |
| @Nested | Обозначает, что аннотированный класс является нестатическим вложенным тестовым классом. Методы @BeforeAll и @AfterAll нельзя использовать непосредственно в классе теста @Nested, если не используется жизненный цикл экземпляра для каждого класса. Такие аннотации не наследуются. |
| @Tag | Используется для объявления тегов для фильтрации тестов на уровне класса или метода; аналогично тестовым группам в TestNG или категориям в JUnit 4. Такие аннотации наследуются на уровне класса, но не на уровне метода. |
| @Disabled | Используется для отключения тестового класса или тестового метода; аналогично @Ignore JUnit 4. Такие аннотации не наследуются. |
| @Timeout | Используется для сбоя теста, фабрики тестов, шаблона теста или метода жизненного цикла, если его выполнение превышает заданную продолжительность. Такие аннотации наследуются. |
| @ExtendWith | Используется для декларативной регистрации расширений. Такие аннотации наследуются |
| @RegisterExtension | Используется для регистрации расширений программно через поля. Такие поля наследуются, если они не затенены. |
| @TempDir | Используется для предоставления временного каталога посредством введения поля или ввода параметра в методе жизненного цикла или в методе тестирования; находится в пакете org.junit.jupiter.api.io. |

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| **Modifier and Type** | **Method and Description** |
| static void | [**assertAll**](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/Assertions.html#assertAll-org.junit.jupiter.api.function.Executable...-)([Executable](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/function/Executable.html)... executables)  Asserts that all supplied executables do not throw exceptions. |
| static void | [**assertAll**](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/Assertions.html#assertAll-java.util.stream.Stream-)([Stream](https://docs.oracle.com/javase/8/docs/api/java/util/stream/Stream.html?is-external=true)<[Executable](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/function/Executable.html)> executables)  Asserts that all supplied executables do not throw exceptions. |
| static void | [**assertAll**](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/Assertions.html#assertAll-java.lang.String-org.junit.jupiter.api.function.Executable...-)([String](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html?is-external=true) heading, [Executable](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/function/Executable.html)... executables)  Asserts that all supplied executables do not throw exceptions. |
| static void | [**assertAll**](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/Assertions.html#assertAll-java.lang.String-java.util.stream.Stream-)([String](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html?is-external=true) heading, [Stream](https://docs.oracle.com/javase/8/docs/api/java/util/stream/Stream.html?is-external=true)<[Executable](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/function/Executable.html)> executables)  Asserts that all supplied executables do not throw exceptions. |
| static void | [**assertArrayEquals**](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/Assertions.html#assertArrayEquals-boolean:A-boolean:A-)(boolean[] expected, boolean[] actual)  Asserts that expected and actual boolean arrays are equal. |
| static void | [**assertArrayEquals**](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/Assertions.html#assertArrayEquals-boolean:A-boolean:A-java.lang.String-)(boolean[] expected, boolean[] actual, [String](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html?is-external=true) message)  Asserts that expected and actual boolean arrays are equal. |
| static void | [**assertArrayEquals**](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/Assertions.html#assertArrayEquals-boolean:A-boolean:A-java.util.function.Supplier-)(boolean[] expected, boolean[] actual, [Supplier](https://docs.oracle.com/javase/8/docs/api/java/util/function/Supplier.html?is-external=true)<[String](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html?is-external=true)> messageSupplier)  Asserts that expected and actual boolean arrays are equal. |
| static void | [**assertArrayEquals**](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/Assertions.html#assertArrayEquals-byte:A-byte:A-)(byte[] expected, byte[] actual)  Asserts that expected and actual byte arrays are equal. |
| static void | [**assertArrayEquals**](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/Assertions.html#assertArrayEquals-byte:A-byte:A-java.lang.String-)(byte[] expected, byte[] actual, [String](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html?is-external=true) message)  Asserts that expected and actual byte arrays are equal. |
| static void | [**assertArrayEquals**](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/Assertions.html#assertArrayEquals-byte:A-byte:A-java.util.function.Supplier-)(byte[] expected, byte[] actual, [Supplier](https://docs.oracle.com/javase/8/docs/api/java/util/function/Supplier.html?is-external=true)<[String](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html?is-external=true)> messageSupplier)  Asserts that expected and actual byte arrays are equal. |
| static void | [**assertArrayEquals**](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/Assertions.html#assertArrayEquals-char:A-char:A-)(char[] expected, char[] actual)  Asserts that expected and actual char arrays are equal. |
| static void | [**assertArrayEquals**](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/Assertions.html#assertArrayEquals-char:A-char:A-java.lang.String-)(char[] expected, char[] actual, [String](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html?is-external=true) message)  Asserts that expected and actual char arrays are equal. |
| static void | [**assertArrayEquals**](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/Assertions.html#assertArrayEquals-char:A-char:A-java.util.function.Supplier-)(char[] expected, char[] actual, [Supplier](https://docs.oracle.com/javase/8/docs/api/java/util/function/Supplier.html?is-external=true)<[String](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html?is-external=true)> messageSupplier)  Asserts that expected and actual char arrays are equal. |
| static void | [**assertArrayEquals**](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/Assertions.html#assertArrayEquals-double:A-double:A-)(double[] expected, double[] actual)  Asserts that expected and actual double arrays are equal. |
| static void | [**assertArrayEquals**](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/Assertions.html#assertArrayEquals-double:A-double:A-double-)(double[] expected, double[] actual, double delta)  Asserts that expected and actual double arrays are equal within the given delta. |
| static void | [**assertArrayEquals**](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/Assertions.html#assertArrayEquals-double:A-double:A-double-java.lang.String-)(double[] expected, double[] actual, double delta, [String](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html?is-external=true) message)  Asserts that expected and actual double arrays are equal within the given delta. |
| static void | [**assertArrayEquals**](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/Assertions.html#assertArrayEquals-double:A-double:A-double-java.util.function.Supplier-)(double[] expected, double[] actual, double delta, [Supplier](https://docs.oracle.com/javase/8/docs/api/java/util/function/Supplier.html?is-external=true)<[String](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html?is-external=true)> messageSupplier)  Asserts that expected and actual double arrays are equal within the given delta. |
| static void | [**assertArrayEquals**](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/Assertions.html#assertArrayEquals-double:A-double:A-java.lang.String-)(double[] expected, double[] actual, [String](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html?is-external=true) message)  Asserts that expected and actual double arrays are equal. |
| static void | [**assertArrayEquals**](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/Assertions.html#assertArrayEquals-double:A-double:A-java.util.function.Supplier-)(double[] expected, double[] actual, [Supplier](https://docs.oracle.com/javase/8/docs/api/java/util/function/Supplier.html?is-external=true)<[String](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html?is-external=true)> messageSupplier)  Asserts that expected and actual double arrays are equal. |
| static void | [**assertArrayEquals**](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/Assertions.html#assertArrayEquals-float:A-float:A-)(float[] expected, float[] actual)  Asserts that expected and actual float arrays are equal. |
| static void | [**assertArrayEquals**](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/Assertions.html#assertArrayEquals-float:A-float:A-float-)(float[] expected, float[] actual, float delta)  Asserts that expected and actual float arrays are equal within the given delta. |
| static void | [**assertArrayEquals**](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/Assertions.html#assertArrayEquals-float:A-float:A-float-java.lang.String-)(float[] expected, float[] actual, float delta, [String](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html?is-external=true) message)  Asserts that expected and actual float arrays are equal within the given delta. |
| static void | [**assertArrayEquals**](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/Assertions.html#assertArrayEquals-float:A-float:A-float-java.util.function.Supplier-)(float[] expected, float[] actual, float delta, [Supplier](https://docs.oracle.com/javase/8/docs/api/java/util/function/Supplier.html?is-external=true)<[String](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html?is-external=true)> messageSupplier)  Asserts that expected and actual float arrays are equal within the given delta. |
| static void | [**assertArrayEquals**](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/Assertions.html#assertArrayEquals-float:A-float:A-java.lang.String-)(float[] expected, float[] actual, [String](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html?is-external=true) message)  Asserts that expected and actual float arrays are equal. |
| static void | [**assertArrayEquals**](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/Assertions.html#assertArrayEquals-float:A-float:A-java.util.function.Supplier-)(float[] expected, float[] actual, [Supplier](https://docs.oracle.com/javase/8/docs/api/java/util/function/Supplier.html?is-external=true)<[String](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html?is-external=true)> messageSupplier)  Asserts that expected and actual float arrays are equal. |
| static void | [**assertArrayEquals**](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/Assertions.html#assertArrayEquals-int:A-int:A-)(int[] expected, int[] actual)  Asserts that expected and actual int arrays are equal. |
| static void | [**assertArrayEquals**](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/Assertions.html#assertArrayEquals-int:A-int:A-java.lang.String-)(int[] expected, int[] actual, [String](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html?is-external=true) message)  Asserts that expected and actual int arrays are equal. |
| static void | [**assertArrayEquals**](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/Assertions.html#assertArrayEquals-int:A-int:A-java.util.function.Supplier-)(int[] expected, int[] actual, [Supplier](https://docs.oracle.com/javase/8/docs/api/java/util/function/Supplier.html?is-external=true)<[String](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html?is-external=true)> messageSupplier)  Asserts that expected and actual int arrays are equal. |
| static void | [**assertArrayEquals**](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/Assertions.html#assertArrayEquals-long:A-long:A-)(long[] expected, long[] actual)  Asserts that expected and actual long arrays are equal. |
| static void | [**assertArrayEquals**](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/Assertions.html#assertArrayEquals-long:A-long:A-java.lang.String-)(long[] expected, long[] actual, [String](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html?is-external=true) message)  Asserts that expected and actual long arrays are equal. |
| static void | [**assertArrayEquals**](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/Assertions.html#assertArrayEquals-long:A-long:A-java.util.function.Supplier-)(long[] expected, long[] actual, [Supplier](https://docs.oracle.com/javase/8/docs/api/java/util/function/Supplier.html?is-external=true)<[String](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html?is-external=true)> messageSupplier)  Asserts that expected and actual long arrays are equal. |
| static void | [**assertArrayEquals**](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/Assertions.html#assertArrayEquals-java.lang.Object:A-java.lang.Object:A-)([Object](https://docs.oracle.com/javase/8/docs/api/java/lang/Object.html?is-external=true)[] expected, [Object](https://docs.oracle.com/javase/8/docs/api/java/lang/Object.html?is-external=true)[] actual)  Asserts that expected and actual object arrays are deeply equal. |
| static void | [**assertArrayEquals**](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/Assertions.html#assertArrayEquals-java.lang.Object:A-java.lang.Object:A-java.lang.String-)([Object](https://docs.oracle.com/javase/8/docs/api/java/lang/Object.html?is-external=true)[] expected, [Object](https://docs.oracle.com/javase/8/docs/api/java/lang/Object.html?is-external=true)[] actual, [String](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html?is-external=true) message)  Asserts that expected and actual object arrays are deeply equal. |
| static void | [**assertArrayEquals**](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/Assertions.html#assertArrayEquals-java.lang.Object:A-java.lang.Object:A-java.util.function.Supplier-)([Object](https://docs.oracle.com/javase/8/docs/api/java/lang/Object.html?is-external=true)[] expected, [Object](https://docs.oracle.com/javase/8/docs/api/java/lang/Object.html?is-external=true)[] actual, [Supplier](https://docs.oracle.com/javase/8/docs/api/java/util/function/Supplier.html?is-external=true)<[String](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html?is-external=true)> messageSupplier)  Asserts that expected and actual object arrays are deeply equal. |
| static void | [**assertArrayEquals**](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/Assertions.html#assertArrayEquals-short:A-short:A-)(short[] expected, short[] actual)  Asserts that expected and actual short arrays are equal. |
| static void | [**assertArrayEquals**](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/Assertions.html#assertArrayEquals-short:A-short:A-java.lang.String-)(short[] expected, short[] actual, [String](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html?is-external=true) message)  Asserts that expected and actual short arrays are equal. |
| static void | [**assertArrayEquals**](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/Assertions.html#assertArrayEquals-short:A-short:A-java.util.function.Supplier-)(short[] expected, short[] actual, [Supplier](https://docs.oracle.com/javase/8/docs/api/java/util/function/Supplier.html?is-external=true)<[String](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html?is-external=true)> messageSupplier)  Asserts that expected and actual short arrays are equal. |
| static void | [**assertEquals**](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/Assertions.html#assertEquals-byte-byte-)(byte expected, byte actual)  Asserts that expected and actual are equal. |
| static void | [**assertEquals**](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/Assertions.html#assertEquals-byte-byte-java.lang.String-)(byte expected, byte actual, [String](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html?is-external=true) message)  Asserts that expected and actual are equal. |
| static void | [**assertEquals**](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/Assertions.html#assertEquals-byte-byte-java.util.function.Supplier-)(byte expected, byte actual, [Supplier](https://docs.oracle.com/javase/8/docs/api/java/util/function/Supplier.html?is-external=true)<[String](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html?is-external=true)> messageSupplier)  Asserts that expected and actual are equal. |
| static void | [**assertEquals**](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/Assertions.html#assertEquals-char-char-)(char expected, char actual)  Asserts that expected and actual are equal. |
| static void | [**assertEquals**](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/Assertions.html#assertEquals-char-char-java.lang.String-)(char expected, char actual, [String](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html?is-external=true) message)  Asserts that expected and actual are equal. |
| static void | [**assertEquals**](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/Assertions.html#assertEquals-char-char-java.util.function.Supplier-)(char expected, char actual, [Supplier](https://docs.oracle.com/javase/8/docs/api/java/util/function/Supplier.html?is-external=true)<[String](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html?is-external=true)> messageSupplier)  Asserts that expected and actual are equal. |
| static void | [**assertEquals**](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/Assertions.html#assertEquals-double-double-)(double expected, double actual)  Asserts that expected and actual are equal. |
| static void | [**assertEquals**](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/Assertions.html#assertEquals-double-double-double-)(double expected, double actual, double delta)  Asserts that expected and actual are equal within the given delta. |
| static void | [**assertEquals**](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/Assertions.html#assertEquals-double-double-double-java.lang.String-)(double expected, double actual, double delta, [String](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html?is-external=true) message)  Asserts that expected and actual are equal within the given delta. |
| static void | [**assertEquals**](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/Assertions.html#assertEquals-double-double-double-java.util.function.Supplier-)(double expected, double actual, double delta, [Supplier](https://docs.oracle.com/javase/8/docs/api/java/util/function/Supplier.html?is-external=true)<[String](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html?is-external=true)> messageSupplier)  Asserts that expected and actual are equal within the given delta. |
| static void | [**assertEquals**](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/Assertions.html#assertEquals-double-double-java.lang.String-)(double expected, double actual, [String](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html?is-external=true) message)  Asserts that expected and actual are equal. |
| static void | [**assertEquals**](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/Assertions.html#assertEquals-double-double-java.util.function.Supplier-)(double expected, double actual, [Supplier](https://docs.oracle.com/javase/8/docs/api/java/util/function/Supplier.html?is-external=true)<[String](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html?is-external=true)> messageSupplier)  Asserts that expected and actual are equal. |
| static void | [**assertEquals**](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/Assertions.html#assertEquals-float-float-)(float expected, float actual)  Asserts that expected and actual are equal. |
| static void | [**assertEquals**](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/Assertions.html#assertEquals-float-float-float-)(float expected, float actual, float delta)  Asserts that expected and actual are equal within the given delta. |
| static void | [**assertEquals**](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/Assertions.html#assertEquals-float-float-float-java.lang.String-)(float expected, float actual, float delta, [String](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html?is-external=true) message)  Asserts that expected and actual are equal within the given delta. |
| static void | [**assertEquals**](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/Assertions.html#assertEquals-float-float-float-java.util.function.Supplier-)(float expected, float actual, float delta, [Supplier](https://docs.oracle.com/javase/8/docs/api/java/util/function/Supplier.html?is-external=true)<[String](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html?is-external=true)> messageSupplier)  Asserts that expected and actual are equal within the given delta. |
| static void | [**assertEquals**](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/Assertions.html#assertEquals-float-float-java.lang.String-)(float expected, float actual, [String](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html?is-external=true) message)  Asserts that expected and actual are equal. |
| static void | [**assertEquals**](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/Assertions.html#assertEquals-float-float-java.util.function.Supplier-)(float expected, float actual, [Supplier](https://docs.oracle.com/javase/8/docs/api/java/util/function/Supplier.html?is-external=true)<[String](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html?is-external=true)> messageSupplier)  Asserts that expected and actual are equal. |
| static void | [**assertEquals**](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/Assertions.html#assertEquals-int-int-)(int expected, int actual)  Asserts that expected and actual are equal. |
| static void | [**assertEquals**](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/Assertions.html#assertEquals-int-int-java.lang.String-)(int expected, int actual, [String](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html?is-external=true) message)  Asserts that expected and actual are equal. |
| static void | [**assertEquals**](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/Assertions.html#assertEquals-int-int-java.util.function.Supplier-)(int expected, int actual, [Supplier](https://docs.oracle.com/javase/8/docs/api/java/util/function/Supplier.html?is-external=true)<[String](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html?is-external=true)> messageSupplier)  Asserts that expected and actual are equal. |
| static void | [**assertEquals**](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/Assertions.html#assertEquals-long-long-)(long expected, long actual)  Asserts that expected and actual are equal. |
| static void | [**assertEquals**](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/Assertions.html#assertEquals-long-long-java.lang.String-)(long expected, long actual, [String](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html?is-external=true) message)  Asserts that expected and actual are equal. |
| static void | [**assertEquals**](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/Assertions.html#assertEquals-long-long-java.util.function.Supplier-)(long expected, long actual, [Supplier](https://docs.oracle.com/javase/8/docs/api/java/util/function/Supplier.html?is-external=true)<[String](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html?is-external=true)> messageSupplier)  Asserts that expected and actual are equal. |
| static void | [**assertEquals**](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/Assertions.html#assertEquals-java.lang.Object-java.lang.Object-)([Object](https://docs.oracle.com/javase/8/docs/api/java/lang/Object.html?is-external=true) expected, [Object](https://docs.oracle.com/javase/8/docs/api/java/lang/Object.html?is-external=true) actual)  Asserts that expected and actual are equal. |
| static void | [**assertEquals**](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/Assertions.html#assertEquals-java.lang.Object-java.lang.Object-java.lang.String-)([Object](https://docs.oracle.com/javase/8/docs/api/java/lang/Object.html?is-external=true) expected, [Object](https://docs.oracle.com/javase/8/docs/api/java/lang/Object.html?is-external=true) actual, [String](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html?is-external=true) message)  Asserts that expected and actual are equal. |
| static void | [**assertEquals**](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/Assertions.html#assertEquals-java.lang.Object-java.lang.Object-java.util.function.Supplier-)([Object](https://docs.oracle.com/javase/8/docs/api/java/lang/Object.html?is-external=true) expected, [Object](https://docs.oracle.com/javase/8/docs/api/java/lang/Object.html?is-external=true) actual, [Supplier](https://docs.oracle.com/javase/8/docs/api/java/util/function/Supplier.html?is-external=true)<[String](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html?is-external=true)> messageSupplier)  Asserts that expected and actual are equal. |
| static void | [**assertEquals**](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/Assertions.html#assertEquals-short-short-)(short expected, short actual)  Asserts that expected and actual are equal. |
| static void | [**assertEquals**](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/Assertions.html#assertEquals-short-short-java.lang.String-)(short expected, short actual, [String](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html?is-external=true) message)  Asserts that expected and actual are equal. |
| static void | [**assertEquals**](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/Assertions.html#assertEquals-short-short-java.util.function.Supplier-)(short expected, short actual, [Supplier](https://docs.oracle.com/javase/8/docs/api/java/util/function/Supplier.html?is-external=true)<[String](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html?is-external=true)> messageSupplier)  Asserts that expected and actual are equal. |
| static void | [**assertFalse**](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/Assertions.html#assertFalse-boolean-)(boolean condition)  Asserts that the supplied condition is not true. |
| static void | [**assertFalse**](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/Assertions.html#assertFalse-boolean-java.lang.String-)(boolean condition, [String](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html?is-external=true) message)  Asserts that the supplied condition is not true. |
| static void | [**assertFalse**](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/Assertions.html#assertFalse-java.util.function.BooleanSupplier-)([BooleanSupplier](https://docs.oracle.com/javase/8/docs/api/java/util/function/BooleanSupplier.html?is-external=true) booleanSupplier)  Asserts that the boolean condition supplied by booleanSupplier is not true. |
| static void | [**assertFalse**](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/Assertions.html#assertFalse-boolean-java.util.function.Supplier-)(boolean condition, [Supplier](https://docs.oracle.com/javase/8/docs/api/java/util/function/Supplier.html?is-external=true)<[String](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html?is-external=true)> messageSupplier)  Asserts that the supplied condition is not true. |
| static void | [**assertFalse**](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/Assertions.html#assertFalse-java.util.function.BooleanSupplier-java.lang.String-)([BooleanSupplier](https://docs.oracle.com/javase/8/docs/api/java/util/function/BooleanSupplier.html?is-external=true) booleanSupplier, [String](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html?is-external=true) message)  Asserts that the boolean condition supplied by booleanSupplier is not true. |
| static void | [**assertFalse**](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/Assertions.html#assertFalse-java.util.function.BooleanSupplier-java.util.function.Supplier-)([BooleanSupplier](https://docs.oracle.com/javase/8/docs/api/java/util/function/BooleanSupplier.html?is-external=true) booleanSupplier, [Supplier](https://docs.oracle.com/javase/8/docs/api/java/util/function/Supplier.html?is-external=true)<[String](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html?is-external=true)> messageSupplier)  Asserts that the boolean condition supplied by booleanSupplier is not true. |
| static void | [**assertIterableEquals**](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/Assertions.html#assertIterableEquals-java.lang.Iterable-java.lang.Iterable-)([Iterable](https://docs.oracle.com/javase/8/docs/api/java/lang/Iterable.html?is-external=true)<?> expected, [Iterable](https://docs.oracle.com/javase/8/docs/api/java/lang/Iterable.html?is-external=true)<?> actual)  Asserts that expected and actual iterables are deeply equal. |
| static void | [**assertIterableEquals**](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/Assertions.html#assertIterableEquals-java.lang.Iterable-java.lang.Iterable-java.lang.String-)([Iterable](https://docs.oracle.com/javase/8/docs/api/java/lang/Iterable.html?is-external=true)<?> expected, [Iterable](https://docs.oracle.com/javase/8/docs/api/java/lang/Iterable.html?is-external=true)<?> actual, [String](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html?is-external=true) message)  Asserts that expected and actual iterables are deeply equal. |
| static void | [**assertIterableEquals**](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/Assertions.html#assertIterableEquals-java.lang.Iterable-java.lang.Iterable-java.util.function.Supplier-)([Iterable](https://docs.oracle.com/javase/8/docs/api/java/lang/Iterable.html?is-external=true)<?> expected, [Iterable](https://docs.oracle.com/javase/8/docs/api/java/lang/Iterable.html?is-external=true)<?> actual, [Supplier](https://docs.oracle.com/javase/8/docs/api/java/util/function/Supplier.html?is-external=true)<[String](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html?is-external=true)> messageSupplier)  Asserts that expected and actual iterables are deeply equal. |
| static void | [**assertLinesMatch**](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/Assertions.html#assertLinesMatch-java.util.List-java.util.List-)([List](https://docs.oracle.com/javase/8/docs/api/java/util/List.html?is-external=true)<[String](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html?is-external=true)> expectedLines, [List](https://docs.oracle.com/javase/8/docs/api/java/util/List.html?is-external=true)<[String](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html?is-external=true)> actualLines)  Asserts that expected list of [String](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html?is-external=true)s matches actual list. |
| static void | [**assertNotEquals**](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/Assertions.html#assertNotEquals-java.lang.Object-java.lang.Object-)([Object](https://docs.oracle.com/javase/8/docs/api/java/lang/Object.html?is-external=true) unexpected, [Object](https://docs.oracle.com/javase/8/docs/api/java/lang/Object.html?is-external=true) actual)  Asserts that expected and actual are not equal. |
| static void | [**assertNotEquals**](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/Assertions.html#assertNotEquals-java.lang.Object-java.lang.Object-java.lang.String-)([Object](https://docs.oracle.com/javase/8/docs/api/java/lang/Object.html?is-external=true) unexpected, [Object](https://docs.oracle.com/javase/8/docs/api/java/lang/Object.html?is-external=true) actual, [String](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html?is-external=true) message)  Asserts that expected and actual are not equal. |
| static void | [**assertNotEquals**](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/Assertions.html#assertNotEquals-java.lang.Object-java.lang.Object-java.util.function.Supplier-)([Object](https://docs.oracle.com/javase/8/docs/api/java/lang/Object.html?is-external=true) unexpected, [Object](https://docs.oracle.com/javase/8/docs/api/java/lang/Object.html?is-external=true) actual, [Supplier](https://docs.oracle.com/javase/8/docs/api/java/util/function/Supplier.html?is-external=true)<[String](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html?is-external=true)> messageSupplier)  Asserts that expected and actual are not equal. |
| static void | [**assertNotNull**](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/Assertions.html#assertNotNull-java.lang.Object-)([Object](https://docs.oracle.com/javase/8/docs/api/java/lang/Object.html?is-external=true) actual)  Asserts that actual is not null. |
| static void | [**assertNotNull**](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/Assertions.html#assertNotNull-java.lang.Object-java.lang.String-)([Object](https://docs.oracle.com/javase/8/docs/api/java/lang/Object.html?is-external=true) actual, [String](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html?is-external=true) message)  Asserts that actual is not null. |
| static void | [**assertNotNull**](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/Assertions.html#assertNotNull-java.lang.Object-java.util.function.Supplier-)([Object](https://docs.oracle.com/javase/8/docs/api/java/lang/Object.html?is-external=true) actual, [Supplier](https://docs.oracle.com/javase/8/docs/api/java/util/function/Supplier.html?is-external=true)<[String](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html?is-external=true)> messageSupplier)  Asserts that actual is not null. |
| static void | [**assertNotSame**](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/Assertions.html#assertNotSame-java.lang.Object-java.lang.Object-)([Object](https://docs.oracle.com/javase/8/docs/api/java/lang/Object.html?is-external=true) unexpected, [Object](https://docs.oracle.com/javase/8/docs/api/java/lang/Object.html?is-external=true) actual)  Asserts that expected and actual do not refer to the same object. |
| static void | [**assertNotSame**](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/Assertions.html#assertNotSame-java.lang.Object-java.lang.Object-java.lang.String-)([Object](https://docs.oracle.com/javase/8/docs/api/java/lang/Object.html?is-external=true) unexpected, [Object](https://docs.oracle.com/javase/8/docs/api/java/lang/Object.html?is-external=true) actual, [String](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html?is-external=true) message)  Asserts that expected and actual do not refer to the same object. |
| static void | [**assertNotSame**](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/Assertions.html#assertNotSame-java.lang.Object-java.lang.Object-java.util.function.Supplier-)([Object](https://docs.oracle.com/javase/8/docs/api/java/lang/Object.html?is-external=true) unexpected, [Object](https://docs.oracle.com/javase/8/docs/api/java/lang/Object.html?is-external=true) actual, [Supplier](https://docs.oracle.com/javase/8/docs/api/java/util/function/Supplier.html?is-external=true)<[String](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html?is-external=true)> messageSupplier)  Asserts that expected and actual do not refer to the same object. |
| static void | [**assertNull**](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/Assertions.html#assertNull-java.lang.Object-)([Object](https://docs.oracle.com/javase/8/docs/api/java/lang/Object.html?is-external=true) actual)  Asserts that actual is null. |
| static void | [**assertNull**](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/Assertions.html#assertNull-java.lang.Object-java.lang.String-)([Object](https://docs.oracle.com/javase/8/docs/api/java/lang/Object.html?is-external=true) actual, [String](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html?is-external=true) message)  Asserts that actual is null. |
| static void | [**assertNull**](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/Assertions.html#assertNull-java.lang.Object-java.util.function.Supplier-)([Object](https://docs.oracle.com/javase/8/docs/api/java/lang/Object.html?is-external=true) actual, [Supplier](https://docs.oracle.com/javase/8/docs/api/java/util/function/Supplier.html?is-external=true)<[String](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html?is-external=true)> messageSupplier)  Asserts that actual is null. |
| static void | [**assertSame**](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/Assertions.html#assertSame-java.lang.Object-java.lang.Object-)([Object](https://docs.oracle.com/javase/8/docs/api/java/lang/Object.html?is-external=true) expected, [Object](https://docs.oracle.com/javase/8/docs/api/java/lang/Object.html?is-external=true) actual)  Asserts that expected and actual refer to the same object. |
| static void | [**assertSame**](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/Assertions.html#assertSame-java.lang.Object-java.lang.Object-java.lang.String-)([Object](https://docs.oracle.com/javase/8/docs/api/java/lang/Object.html?is-external=true) expected, [Object](https://docs.oracle.com/javase/8/docs/api/java/lang/Object.html?is-external=true) actual, [String](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html?is-external=true) message)  Asserts that expected and actual refer to the same object. |
| static void | [**assertSame**](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/Assertions.html#assertSame-java.lang.Object-java.lang.Object-java.util.function.Supplier-)([Object](https://docs.oracle.com/javase/8/docs/api/java/lang/Object.html?is-external=true) expected, [Object](https://docs.oracle.com/javase/8/docs/api/java/lang/Object.html?is-external=true) actual, [Supplier](https://docs.oracle.com/javase/8/docs/api/java/util/function/Supplier.html?is-external=true)<[String](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html?is-external=true)> messageSupplier)  Asserts that expected and actual refer to the same object. |
| static <T extends [Throwable](https://docs.oracle.com/javase/8/docs/api/java/lang/Throwable.html?is-external=true)> T | [**assertThrows**](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/Assertions.html#assertThrows-java.lang.Class-org.junit.jupiter.api.function.Executable-)([Class](https://docs.oracle.com/javase/8/docs/api/java/lang/Class.html?is-external=true)<T> expectedType, [Executable](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/function/Executable.html) executable)  Asserts that execution of the supplied executable throws an exception of the expectedType and returns the exception. |
| static <T extends [Throwable](https://docs.oracle.com/javase/8/docs/api/java/lang/Throwable.html?is-external=true)> T | [**assertThrows**](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/Assertions.html#assertThrows-java.lang.Class-org.junit.jupiter.api.function.Executable-java.lang.String-)([Class](https://docs.oracle.com/javase/8/docs/api/java/lang/Class.html?is-external=true)<T> expectedType, [Executable](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/function/Executable.html) executable, [String](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html?is-external=true) message)  Asserts that execution of the supplied executable throws an exception of the expectedType and returns the exception. |
| static <T extends [Throwable](https://docs.oracle.com/javase/8/docs/api/java/lang/Throwable.html?is-external=true)> T | [**assertThrows**](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/Assertions.html#assertThrows-java.lang.Class-org.junit.jupiter.api.function.Executable-java.util.function.Supplier-)([Class](https://docs.oracle.com/javase/8/docs/api/java/lang/Class.html?is-external=true)<T> expectedType, [Executable](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/function/Executable.html) executable, [Supplier](https://docs.oracle.com/javase/8/docs/api/java/util/function/Supplier.html?is-external=true)<[String](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html?is-external=true)> messageSupplier)  Asserts that execution of the supplied executable throws an exception of the expectedType and returns the exception. |
| static void | [**assertTimeout**](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/Assertions.html#assertTimeout-java.time.Duration-org.junit.jupiter.api.function.Executable-)([Duration](https://docs.oracle.com/javase/8/docs/api/java/time/Duration.html?is-external=true) timeout, [Executable](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/function/Executable.html) executable)  Asserts that execution of the supplied executable completes before the given timeout is exceeded. |
| static void | [**assertTimeout**](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/Assertions.html#assertTimeout-java.time.Duration-org.junit.jupiter.api.function.Executable-java.lang.String-)([Duration](https://docs.oracle.com/javase/8/docs/api/java/time/Duration.html?is-external=true) timeout, [Executable](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/function/Executable.html) executable, [String](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html?is-external=true) message)  Asserts that execution of the supplied executable completes before the given timeout is exceeded. |
| static void | [**assertTimeout**](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/Assertions.html#assertTimeout-java.time.Duration-org.junit.jupiter.api.function.Executable-java.util.function.Supplier-)([Duration](https://docs.oracle.com/javase/8/docs/api/java/time/Duration.html?is-external=true) timeout, [Executable](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/function/Executable.html) executable, [Supplier](https://docs.oracle.com/javase/8/docs/api/java/util/function/Supplier.html?is-external=true)<[String](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html?is-external=true)> messageSupplier)  Asserts that execution of the supplied executable completes before the given timeout is exceeded. |
| static <T> T | [**assertTimeout**](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/Assertions.html#assertTimeout-java.time.Duration-org.junit.jupiter.api.function.ThrowingSupplier-)([Duration](https://docs.oracle.com/javase/8/docs/api/java/time/Duration.html?is-external=true) timeout, [ThrowingSupplier](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/function/ThrowingSupplier.html)<T> supplier)  Asserts that execution of the supplied supplier completes before the given timeout is exceeded. |
| static <T> T | [**assertTimeout**](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/Assertions.html#assertTimeout-java.time.Duration-org.junit.jupiter.api.function.ThrowingSupplier-java.lang.String-)([Duration](https://docs.oracle.com/javase/8/docs/api/java/time/Duration.html?is-external=true) timeout, [ThrowingSupplier](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/function/ThrowingSupplier.html)<T> supplier, [String](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html?is-external=true) message)  Asserts that execution of the supplied supplier completes before the given timeout is exceeded. |
| static <T> T | [**assertTimeout**](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/Assertions.html#assertTimeout-java.time.Duration-org.junit.jupiter.api.function.ThrowingSupplier-java.util.function.Supplier-)([Duration](https://docs.oracle.com/javase/8/docs/api/java/time/Duration.html?is-external=true) timeout, [ThrowingSupplier](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/function/ThrowingSupplier.html)<T> supplier, [Supplier](https://docs.oracle.com/javase/8/docs/api/java/util/function/Supplier.html?is-external=true)<[String](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html?is-external=true)> messageSupplier)  Asserts that execution of the supplied supplier completes before the given timeout is exceeded. |
| static void | [**assertTimeoutPreemptively**](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/Assertions.html#assertTimeoutPreemptively-java.time.Duration-org.junit.jupiter.api.function.Executable-)([Duration](https://docs.oracle.com/javase/8/docs/api/java/time/Duration.html?is-external=true) timeout, [Executable](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/function/Executable.html) executable)  Asserts that execution of the supplied executable completes before the given timeout is exceeded. |
| static void | [**assertTimeoutPreemptively**](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/Assertions.html#assertTimeoutPreemptively-java.time.Duration-org.junit.jupiter.api.function.Executable-java.lang.String-)([Duration](https://docs.oracle.com/javase/8/docs/api/java/time/Duration.html?is-external=true) timeout, [Executable](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/function/Executable.html) executable, [String](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html?is-external=true) message)  Asserts that execution of the supplied executable completes before the given timeout is exceeded. |
| static void | [**assertTimeoutPreemptively**](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/Assertions.html#assertTimeoutPreemptively-java.time.Duration-org.junit.jupiter.api.function.Executable-java.util.function.Supplier-)([Duration](https://docs.oracle.com/javase/8/docs/api/java/time/Duration.html?is-external=true) timeout, [Executable](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/function/Executable.html) executable, [Supplier](https://docs.oracle.com/javase/8/docs/api/java/util/function/Supplier.html?is-external=true)<[String](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html?is-external=true)> messageSupplier)  Asserts that execution of the supplied executable completes before the given timeout is exceeded. |
| static <T> T | [**assertTimeoutPreemptively**](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/Assertions.html#assertTimeoutPreemptively-java.time.Duration-org.junit.jupiter.api.function.ThrowingSupplier-)([Duration](https://docs.oracle.com/javase/8/docs/api/java/time/Duration.html?is-external=true) timeout, [ThrowingSupplier](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/function/ThrowingSupplier.html)<T> supplier)  Asserts that execution of the supplied supplier completes before the given timeout is exceeded. |
| static <T> T | [**assertTimeoutPreemptively**](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/Assertions.html#assertTimeoutPreemptively-java.time.Duration-org.junit.jupiter.api.function.ThrowingSupplier-java.lang.String-)([Duration](https://docs.oracle.com/javase/8/docs/api/java/time/Duration.html?is-external=true) timeout, [ThrowingSupplier](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/function/ThrowingSupplier.html)<T> supplier, [String](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html?is-external=true) message)  Asserts that execution of the supplied supplier completes before the given timeout is exceeded. |
| static <T> T | [**assertTimeoutPreemptively**](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/Assertions.html#assertTimeoutPreemptively-java.time.Duration-org.junit.jupiter.api.function.ThrowingSupplier-java.util.function.Supplier-)([Duration](https://docs.oracle.com/javase/8/docs/api/java/time/Duration.html?is-external=true) timeout, [ThrowingSupplier](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/function/ThrowingSupplier.html)<T> supplier, [Supplier](https://docs.oracle.com/javase/8/docs/api/java/util/function/Supplier.html?is-external=true)<[String](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html?is-external=true)> messageSupplier)  Asserts that execution of the supplied supplier completes before the given timeout is exceeded. |
| static void | [**assertTrue**](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/Assertions.html#assertTrue-boolean-)(boolean condition)  Asserts that the supplied condition is true. |
| static void | [**assertTrue**](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/Assertions.html#assertTrue-boolean-java.lang.String-)(boolean condition, [String](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html?is-external=true) message)  Asserts that the supplied condition is true. |
| static void | [**assertTrue**](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/Assertions.html#assertTrue-java.util.function.BooleanSupplier-)([BooleanSupplier](https://docs.oracle.com/javase/8/docs/api/java/util/function/BooleanSupplier.html?is-external=true) booleanSupplier)  Asserts that the boolean condition supplied by booleanSupplier is true. |
| static void | [**assertTrue**](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/Assertions.html#assertTrue-boolean-java.util.function.Supplier-)(boolean condition, [Supplier](https://docs.oracle.com/javase/8/docs/api/java/util/function/Supplier.html?is-external=true)<[String](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html?is-external=true)> messageSupplier)  Asserts that the supplied condition is true. |
| static void | [**assertTrue**](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/Assertions.html#assertTrue-java.util.function.BooleanSupplier-java.lang.String-)([BooleanSupplier](https://docs.oracle.com/javase/8/docs/api/java/util/function/BooleanSupplier.html?is-external=true) booleanSupplier, [String](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html?is-external=true) message)  Asserts that the boolean condition supplied by booleanSupplier is true. |
| static void | [**assertTrue**](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/Assertions.html#assertTrue-java.util.function.BooleanSupplier-java.util.function.Supplier-)([BooleanSupplier](https://docs.oracle.com/javase/8/docs/api/java/util/function/BooleanSupplier.html?is-external=true) booleanSupplier, [Supplier](https://docs.oracle.com/javase/8/docs/api/java/util/function/Supplier.html?is-external=true)<[String](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html?is-external=true)> messageSupplier)  Asserts that the boolean condition supplied by booleanSupplier is true. |
| static <V> V | [**fail**](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/Assertions.html#fail-java.lang.String-)([String](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html?is-external=true) message)  Fails a test with the given failure message. |
| static <V> V | [**fail**](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/Assertions.html#fail-java.lang.String-java.lang.Throwable-)([String](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html?is-external=true) message, [Throwable](https://docs.oracle.com/javase/8/docs/api/java/lang/Throwable.html?is-external=true) cause)  Fails a test with the given failure message as well as the underlying cause. |
| static <V> V | [**fail**](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/Assertions.html#fail-java.util.function.Supplier-)([Supplier](https://docs.oracle.com/javase/8/docs/api/java/util/function/Supplier.html?is-external=true)<[String](https://docs.oracle.com/javase/8/docs/api/java/lang/String.html?is-external=true)> messageSupplier)  Fails a test with the failure message retrieved from the given messageSupplier. |
| static <V> V | [**fail**](https://junit.org/junit5/docs/5.0.1/api/org/junit/jupiter/api/Assertions.html#fail-java.lang.Throwable-)([Throwable](https://docs.oracle.com/javase/8/docs/api/java/lang/Throwable.html?is-external=true) cause)  Fails a test with the given underlying cause. |