JGiven Report

Table of Contents

Table 1. Total Statistics

feature	total classes	successful scenarios	failed scenarios	pending scenarios	total scenarios	failed cases	total cases	total steps	duration
As Annotation Example	1	4	0	0	4	0	4	6	1ms
Attachments Example	1	7	0	0	7	0	10	15	184ms
Calculator	1	1	0	0	1	0	1	1	0ms
Common Stages	1	1	0	0	1	0	1	2	0ms
Current Step Example	1	3	0	0	3	0	4	4	2ms
Data Table Examples	1	11	0	0	11	0	11	13	44ms
Dynamic Tags	1	1	0	0	1	0	1	3	2ms
Extended Descriptions	1	5	0	0	5	0	6	6	1ms

feature	total classes	successful scenarios	failed scenarios	pending scenarios	total scenarios	failed cases	total cases	total steps	duration
Extended Vocabulary	1	2	0	0	2	0	2	8	2ms
Extended Vocabulary Pan Cake	1	1	0	0	1	0	1	7	42ms
Failing Scenario	1	0	1	0	1	1	1	1	174ms
J Unit Params Serve Coffee	1	1	0	0	1	0	4	28	3ms
Link Example One	1	2	0	0	2	0	2	6	1ms
Link Example Two	1	1	0	0	1	0	1	3	0ms
My Dynamically Added	1	1	0	0	1	0	1	4	21ms
My Injected J Given	1	1	0	0	1	0	1	4	0ms
My Shiny J Given	1	1	0	0	1	0	1	3	0ms
Nested Steps	1	1	1	0	2	1	2	17	7ms
Parameter Formatting	1	1	0	0	1	0	2	4	0ms

feature	total classes	successful scenarios	failed scenarios	pending scenarios	total scenarios	failed cases	total cases	total steps	duration
Parameterized Pan Cake Scenario	1	1	0	0	1	0	2	12	2ms
Parametrized Scenarios	1	4	1	0	5	10	108	208	58ms
Pending Example	1	0	0	3	3	0	4	12	3ms
Rocket	1	1	0	0	1	0	1	2	1ms
Rules Example	1	1	0	0	1	0	1	1	0ms
Section	1	1	0	0	1	0	1	7	0ms
Serve Coffee	1	11	4	0	15	4	29	148	1s 121ms
Simple Scenario Test Example	1	3	0	0	3	0	3	12	2ms
Spring Pan Cake Scenario	1	1	0	0	1	0	1	6	4ms
Step Tags	1	1	0	0	1	0	1	5	4ms
Tag Hierarchy Example	1	2	0	0	2	0	2	6	1ms
Using Rules	1	1	0	0	1	0	1	3	0ms
sum	31	72	7	3	82	16	210	557	1s 694ms

All Scenarios

As Annotation Example

☑ 4 Successful, ❗ 0 Failed, ⃠ 0 Pending, 4 Total (1ms)

Demonstrates the usage of the @As annotation

Scenario that shows the usage of @As with argument enumeration

☑

Given the reference to the first argument : *false* and the second argument : *0*

Scenario that shows the usage of @As with argument names

☑

Given the reference to the second argument : *1* and the first argument : *true*

Scenario that shows the usage of the @As annotation

☑

Given something else

, something else

Scenarios can have an extended description

☑

This scenario has a very long <tt>@ExtendedDescription</tt>. Extended descriptions can give additional information about the rational of a scenario. You can even use HTML.

Given something else

And something else

Attachments Example

☑ 7 Successful, ❗ 0 Failed, ⃠ 0 Pending, 7 Total (184ms)

Attachments can be added to steps

☑

Given some text content *"Hello World"*

Then it can be added as an attachment to the step with title *Hi*

Attachments can be directly shown

☑ (9ms)

Given an oval circle

Attachments work with data tables

☑ (4ms)

Given some text content <**content**>

Then it can be added as an attachment to the step with title <**title**>

Table 2. Cases

#	content	title	Status
1	"Hello World"	English	SUCCESS
2	"Hallo Welt"	German	SUCCESS
3	"□□□□"	Chinese	SUCCESS

Inline attachments can be used when having multiple cases

☑ (15ms)

Case 1

```
color = blue
```

Given a *blue* oval circle

Case 2

```
color = red
```

Given a *red* oval circle

Large attachments can be zoomed

☑ (51ms)

Given a large oval circle

Steps can have multiple attachments

☑

Given some text content *"Hi There"*

Then it can be added as an attachment multiple times to the step

Thumbnails are shown when not drawn

☑ (102ms)

Given an oval circle as thumbnail

Calculator

☑ 1 Successful, ❗ 0 Failed, 🚫 0 Pending, 1 Total (0ms)

Test

☑

When *10* % are added

Common Stages

☑ 1 Successful, ❗ 0 Failed, 🚫 0 Pending, 1 Total (0ms)

Subclassing of stages should work

☑

Given my common step

And cant do this

Current Step Example

☑ 3 Successful, ❗ 0 Failed, 🚫 0 Pending, 3 Total (2ms)

Demonstrates the use of the CurrentStep interface

SetName can also use arguments

☑

Tags: *CurrentStep*

Given step one argument

SetName with arguments also works with parameterized tests

☑

This test shows that setName also works with parametrized tests. Note, however, that data tables cannot be created in this case. Use the @As annotation instead.

Tags: *CurrentStep*

Case 1

```
argument = argument 1
```

Given step argument 1

Case 2

```
argument = argument 2
```

Given step argument 2

Step name can be changed with CurrentStep

☑

This test shows how to use the CurrentStep interface to change the name of a step

Tags: *CurrentStep*

Given this step name is set with the CurrentStep interface
This step changes its name programmatically using the setStep method. The name is actually step_name_changed_with_CurrentStep

Data Table Examples

☑ 11 Successful, ❗ 0 Failed, ⃠ 0 Pending, 11 Total (44ms)

A list of list can be used as table parameter

☑

Given a list of lists is used as parameter

Name	Email
John Doe	john@doe.com
Jane Roe	jane@roe.com

A list of list can be used as table parameter and column titles can be set

☑ (7ms)

Given a list of lists is used as parameter with column titles

Name	Email
John Doe	john@doe.com
Jane Roe	jane@roe.com

A list of POJOs can be represented as a data table with a vertical header

☑

Given a list of POJOs is used as parameters with header type VERTICAL

name	John Doe	Jane Roe
email	(quoted at POJO field level) "john@doe.com"	(quoted at POJO field level) "jane@roe.com"

A list of POJOs can be represented as a data table with a vertical header and numbered columns

☑

Given a list of POJOs is used as parameters with header type VERTICAL and numbered columns

#	1	2
name	John Doe	Jane Roe
email	(quoted at POJO field level) "john@doe.com"	(quoted at POJO field level) "jane@roe.com"

A list of POJOs can be represented as data tables

☑ (18ms)

Given a list of POJOs is used as parameters

name	email
John Doe	(quoted at POJO field level) "john@doe.com"
Jane Roe	(quoted at POJO field level) "jane@roe.com"

A list of POJOs can be represented as formatted data tables

☑ (10ms)

Given a list of POJOs is used as parameters and some fields are formatted using inline specified named formats

name	email
(uppercased by custom format annotation) JOHN DOE	john@doe.com
(uppercased by custom format annotation) JANE ROE	jane@roe.com

And a list of POJOs is used as parameters and some fields are formatted using a predefined set of named formats

name	email	shippingAddress
JOHN DOE	(quoted by custom format annotation) "john@doe.com"	null
JANE ROE	(quoted by custom format annotation) "jane@roe.com"	[90017/LOS ANGELES/US]

And a list of POJOs is used as parameters and some fields are formatted using a predefined set of named formats

name	email
JOHN DOE	(quoted by custom format annotation) "null"
	(quoted by custom format annotation) "jane@roe.com"

A single POJO can be represented as a data table

☑

Given a single POJO is used as parameters

name	Jane Roe
email	(quoted at POJO field level) "jane@roe.com"

Empty lists also work

☑

Given a list of lists is used as parameter

Parameter tables can have numbered rows

☑

Given a list of POJOs with numbered rows

#	name	email
1	John Doe	(quoted at POJO field level) "john@doe.com"
2	Jane Roe	(quoted at POJO field level) "jane@roe.com"
3	Lee Smith	(quoted at POJO field level) "lee@smith.com"

Parameter tables can have numbered rows with custom headers

☑

Given a list of POJOs with numbered rows and custom header

Counter	name	email
1	John Doe	(quoted at POJO field level) "john@doe.com"
2	Jane Roe	(quoted at POJO field level) "jane@roe.com"
3	Lee Smith	(quoted at POJO field level) "lee@smith.com"

Two dimensional arrays can be numbered

☑ (3ms)

Given a two dimensional array with numbered rows

#	t
1	a
2	b

Dynamic Tags

☑ 1 Successful, ❗ 0 Failed, ⦸ 0 Pending, 1 Total (2ms)

Tags can be added dynamically

☑ (2ms)

Tags: *CarOrder*

Given an order for a *BMW* car

When the order is processed

Then the car is sent to manufacturing

Extended Descriptions

☑ 5 Successful, ❗ 0 Failed, ⦸ 0 Pending, 5 Total (1ms)

Example for different possibilities to annotate test cases with extended descriptions

Scenarios with multiple argument parameters can be shown via click on table

☑

Given some bool <**bool**> and int <**i**> value
Different number of arguments can be referenced in different order - int : $2, bool : $1

Table 3. Cases

#	bool	i	Status
1	false	0	SUCCESS
2	true	1	SUCCESS

Steps can have extended descriptions

☑

Given some boolean value *true*
This is a boolean value

Steps can have extended descriptions with arguments

☑

Given some int value *1*
We can reference the first argument with $$ or $$1 : $

Steps can have multiple arguments referenced in extended descriptions

☑

Given some bool *false* and int *0* value
Different number of arguments can be referenced in different order - int : $2, bool : $1

Steps can reference arguments by name in extended descriptions

☑

Given another bool *false* and int *0* value
Referencing arguments per name - int : $i, bool : $bool

Extended Vocabulary

☑ 2 Successful, ❗ 0 Failed, 🚫 0 Pending, 2 Total (2ms)

With filler words

☑

Given the ingredients

an egg

some milk

and the ingredient *flour*

With joining words

☑ (2ms)

Given a (clean) worksurface, a bowl and the ingredients:

an egg

some milk

the ingredient *flour*

Extended Vocabulary Pan Cake

☑ 1 Successful, ❗ 0 Failed, 🚫 0 Pending, 1 Total (42ms)

A pancake can be fried out of an egg milk and flour

☑ (42ms)

Given some (fresh) ingredients, consisting of:

an egg

some milk

the ingredient *flour*

When the cook mangles everthing to a dough

And the cook fries the dough in a pan

Then the resulting meal is a pan cake

Failing Scenario

☑ 0 Successful, ❗ 1 Failed, 🚫 0 Pending, 1 Total (174ms)

A scenario with a multi line error message

❗ (174ms)

Tags: *FailingOnPurpose*

Given multi line error message ❗ (142ms)

▼ *org.opentest4j.AssertionFailedError: [This*

message has multiple lines] Expecting value to be false but was true

```
java.base/jdk.internal.reflect.NativeConstructorAccessorImpl.newInstance0(Native
Method)
java.base/jdk.internal.reflect.NativeConstructorAccessorImpl.newInstance(NativeConst
ructorAccessorImpl.java:62)
java.base/jdk.internal.reflect.DelegatingConstructorAccessorImpl.newInstance(Delegat
ingConstructorAccessorImpl.java:45)
com.tngtech.jgiven.examples.FailingScenarioTest$Steps.multi_line_error_message(Faili
ngScenarioTest.java:23)
com.tngtech.jgiven.examples.FailingScenarioTest$Steps$ByteBuddy$Vk7bHq4u.multi_line_
error_message$accessor$aw89Qi3R(Unknown Source)
com.tngtech.jgiven.examples.FailingScenarioTest$Steps$ByteBuddy$Vk7bHq4u$auxiliary$f
jq2kY9Q.call(Unknown Source)
com.tngtech.jgiven.examples.FailingScenarioTest$Steps$ByteBuddy$Vk7bHq4u.multi_line_
error_message(Unknown Source)
com.tngtech.jgiven.examples.FailingScenarioTest.a_scenario_with_a_multi_line_error_m
essage(FailingScenarioTest.java:18)
java.base/jdk.internal.reflect.NativeMethodAccessorImpl.invoke0(Native Method)
java.base/jdk.internal.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorI
mpl.java:62)
java.base/jdk.internal.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodA
ccessorImpl.java:43)
org.junit.runners.model.FrameworkMethod$1.runReflectiveCall(FrameworkMethod.java:59)
org.junit.internal.runners.model.ReflectiveCallable.run(ReflectiveCallable.java:12)
org.junit.runners.model.FrameworkMethod.invokeExplosively(FrameworkMethod.java:56)
org.junit.internal.runners.statements.InvokeMethod.evaluate(InvokeMethod.java:17)
com.tngtech.jgiven.junit.JGivenMethodRule$1.evaluate(JGivenMethodRule.java:73)
org.junit.runners.ParentRunner$3.evaluate(ParentRunner.java:306)
org.junit.runners.BlockJUnit4ClassRunner$1.evaluate(BlockJUnit4ClassRunner.java:100)
org.junit.runners.ParentRunner.runLeaf(ParentRunner.java:366)
org.junit.runners.BlockJUnit4ClassRunner.runChild(BlockJUnit4ClassRunner.java:103)
org.junit.runners.BlockJUnit4ClassRunner.runChild(BlockJUnit4ClassRunner.java:63)
org.junit.runners.ParentRunner$4.run(ParentRunner.java:331)
org.junit.runners.ParentRunner$1.schedule(ParentRunner.java:79)
org.junit.runners.ParentRunner.runChildren(ParentRunner.java:329)
org.junit.runners.ParentRunner.access$100(ParentRunner.java:66)
org.junit.runners.ParentRunner$2.evaluate(ParentRunner.java:293)
org.junit.rules.TestWatcher$1.evaluate(TestWatcher.java:61)
org.junit.rules.RunRules.evaluate(RunRules.java:20)
org.junit.runners.ParentRunner$3.evaluate(ParentRunner.java:306)
```

```
org.junit.runners.ParentRunner.run(ParentRunner.java:413)
org.gradle.api.internal.tasks.testing.junit.JUnitTestClassExecutor.runTestClass(JUni
tTestClassExecutor.java:108)
org.gradle.api.internal.tasks.testing.junit.JUnitTestClassExecutor.execute(JUnitTest
ClassExecutor.java:58)
org.gradle.api.internal.tasks.testing.junit.JUnitTestClassExecutor.execute(JUnitTest
ClassExecutor.java:40)
org.gradle.api.internal.tasks.testing.junit.AbstractJUnitTestClassProcessor.processT
estClass(AbstractJUnitTestClassProcessor.java:60)
org.gradle.api.internal.tasks.testing.SuiteTestClassProcessor.processTestClass(Suite
TestClassProcessor.java:52)
java.base/jdk.internal.reflect.NativeMethodAccessorImpl.invoke0(Native Method)
java.base/jdk.internal.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorI
mpl.java:62)
java.base/jdk.internal.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodA
ccessorImpl.java:43)
org.gradle.internal.dispatch.ReflectionDispatch.dispatch(ReflectionDispatch.java:36)
org.gradle.internal.dispatch.ReflectionDispatch.dispatch(ReflectionDispatch.java:24)
org.gradle.internal.dispatch.ContextClassLoaderDispatch.dispatch(ContextClassLoaderD
ispatch.java:33)
org.gradle.internal.dispatch.ProxyDispatchAdapter$DispatchingInvocationHandler.invok
e(ProxyDispatchAdapter.java:94)
org.gradle.api.internal.tasks.testing.worker.TestWorker$2.run(TestWorker.java:176)
org.gradle.api.internal.tasks.testing.worker.TestWorker.executeAndMaintainThreadName
(TestWorker.java:129)
org.gradle.api.internal.tasks.testing.worker.TestWorker.execute(TestWorker.java:100)
org.gradle.api.internal.tasks.testing.worker.TestWorker.execute(TestWorker.java:60)
org.gradle.process.internal.worker.child.ActionExecutionWorker.execute(ActionExecuti
onWorker.java:56)
org.gradle.process.internal.worker.child.SystemApplicationClassLoaderWorker.call(Sys
temApplicationClassLoaderWorker.java:113)
org.gradle.process.internal.worker.child.SystemApplicationClassLoaderWorker.call(Sys
temApplicationClassLoaderWorker.java:65)
worker.org.gradle.process.internal.worker.GradleWorkerMain.run(GradleWorkerMain.java
:69)
worker.org.gradle.process.internal.worker.GradleWorkerMain.main(GradleWorkerMain.jav
a:74)
```

J Unit Params Serve Coffee

☑ 1 Successful, ❗ 0 Failed, ⃠ 0 Pending, 1 Total (3ms)

Buy a coffee

☑ (3ms)

Given a coffee machine
An empty coffee machine that is already turned on.
The coffee price is set to 2 EUR.

And there are <**coffees**> coffees left in the machine
The number of coffees in the machine is set to the given value.

And the machine is <**onOrOff**>

And the coffee costs *2* euros

When I insert <**dollars**> one euro coins

And I press the coffee button

Then I <**shouldOrShouldNot**> be served a coffee

Table 4. Cases

#	coffees	onOrOff	dollars	shouldOrShouldNot	Status
1	1	on	1	should not	SUCCESS
2	1	on	2	should	SUCCESS
3	0	on	2	should not	SUCCESS
4	1	off	2	should not	SUCCESS

Link Example One

☑ 2 Successful, ❗ 0 Failed, ⃠ 0 Pending, 2 Total (1ms)

Link to another test

☑

Tags: *LinkToTest*

Given test linked to another test

When the report is generated

Then the link appears in the report

Link to fixed location

☑

Tags: *SimpleLink*

Given test annotated with links

When the report is generated

Then the link appears in the report

Link Example Two

☑ 1 Successful, ❗ 0 Failed, ⃠ 0 Pending, 1 Total (0ms)

Link to another test

☑

Tags: *LinkToTest*

Given test linked to another test

When the report is generated

Then the link appears in the report

My Dynamically Added

☑ 1 Successful, ❗ 0 Failed, ⃠ 0 Pending, 1 Total (21ms)

Something should happen

☑ (21ms)

Given some state

And some additional state

When some action

Then some outcome

My Injected J Given

☑ 1 Successful, ❗ 0 Failed, ⃠ 0 Pending, 1 Total (0ms)

Something should happen

☑

Given some state

And some additional state

When some action

Then some outcome

My Shiny J Given

☑ 1 Successful, ❗ 0 Failed, ⃠ 0 Pending, 1 Total (0ms)

Something should happen

☑

Given some state

When some action

Then some outcome

Nested Steps

☑ 1 Successful, ❗ 1 Failed, ⃠ 0 Pending, 2 Total (7ms)

A scenario with a failing nested step on purpose

❗ (1ms)

Tags: *FailingOnPurpose*

Given I fill out the registration form with invalid values ❗ (1ms)

- I enter a name *Franky* ☑
  - I think a name *Franky* ☑
  - **And** I write the name *Franky* ☑
- **And** I enter a email address *franky@acme.com* ☑
- **And** something fails for demonstration purposes ❗

When I submit the form ⃠

Then the password matches ⃠

▼ *org.opentest4j.AssertionFailedError: [Fails on purpose]*

Expecting value to be false but was true

```
java.base/jdk.internal.reflect.NativeConstructorAccessorImpl.newInstance0(Native
Method)
java.base/jdk.internal.reflect.NativeConstructorAccessorImpl.newInstance(NativeConst
ructorAccessorImpl.java:62)
java.base/jdk.internal.reflect.DelegatingConstructorAccessorImpl.newInstance(Delegat
ingConstructorAccessorImpl.java:45)
com.tngtech.jgiven.examples.nested.NestedStepsTest$NestedStage.something_fails_for_d
emonstration_purposes(NestedStepsTest.java:72)
com.tngtech.jgiven.examples.nested.NestedStepsTest$NestedStage$ByteBuddy$LmQRfnWy.so
mething_fails_for_demonstration_purposes$accessor$Zj6zME7c(Unknown Source)
com.tngtech.jgiven.examples.nested.NestedStepsTest$NestedStage$ByteBuddy$LmQRfnWy$au
xiliary$YA6YRU7S.call(Unknown Source)
com.tngtech.jgiven.examples.nested.NestedStepsTest$NestedStage$ByteBuddy$LmQRfnWy.so
mething_fails_for_demonstration_purposes(Unknown Source)
com.tngtech.jgiven.examples.nested.NestedStepsTest$NestedStage.I_fill_out_the_regist
ration_form_with_invalid_values(NestedStepsTest.java:67)
com.tngtech.jgiven.examples.nested.NestedStepsTest$NestedStage$ByteBuddy$LmQRfnWy.I_
fill_out_the_registration_form_with_invalid_values$accessor$Zj6zME7c(Unknown Source)
com.tngtech.jgiven.examples.nested.NestedStepsTest$NestedStage$ByteBuddy$LmQRfnWy$au
xiliary$rAwdzEwx.call(Unknown Source)
com.tngtech.jgiven.examples.nested.NestedStepsTest$NestedStage$ByteBuddy$LmQRfnWy.I_
fill_out_the_registration_form_with_invalid_values(Unknown Source)
```

```
com.tngtech.jgiven.examples.nested.NestedStepsTest.a_scenario_with_a_failing_nested_
step_on_purpose(NestedStepsTest.java:32)
java.base/jdk.internal.reflect.NativeMethodAccessorImpl.invoke0(Native Method)
java.base/jdk.internal.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorI
mpl.java:62)
java.base/jdk.internal.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodA
ccessorImpl.java:43)
org.junit.runners.model.FrameworkMethod$1.runReflectiveCall(FrameworkMethod.java:59)
org.junit.internal.runners.model.ReflectiveCallable.run(ReflectiveCallable.java:12)
org.junit.runners.model.FrameworkMethod.invokeExplosively(FrameworkMethod.java:56)
org.junit.internal.runners.statements.InvokeMethod.evaluate(InvokeMethod.java:17)
com.tngtech.jgiven.junit.JGivenMethodRule$1.evaluate(JGivenMethodRule.java:73)
org.junit.runners.ParentRunner$3.evaluate(ParentRunner.java:306)
org.junit.runners.BlockJUnit4ClassRunner$1.evaluate(BlockJUnit4ClassRunner.java:100)
org.junit.runners.ParentRunner.runLeaf(ParentRunner.java:366)
org.junit.runners.BlockJUnit4ClassRunner.runChild(BlockJUnit4ClassRunner.java:103)
org.junit.runners.BlockJUnit4ClassRunner.runChild(BlockJUnit4ClassRunner.java:63)
org.junit.runners.ParentRunner$4.run(ParentRunner.java:331)
org.junit.runners.ParentRunner$1.schedule(ParentRunner.java:79)
org.junit.runners.ParentRunner.runChildren(ParentRunner.java:329)
org.junit.runners.ParentRunner.access$100(ParentRunner.java:66)
org.junit.runners.ParentRunner$2.evaluate(ParentRunner.java:293)
org.junit.rules.TestWatcher$1.evaluate(TestWatcher.java:61)
org.junit.rules.RunRules.evaluate(RunRules.java:20)
org.junit.runners.ParentRunner$3.evaluate(ParentRunner.java:306)
org.junit.runners.ParentRunner.run(ParentRunner.java:413)
org.gradle.api.internal.tasks.testing.junit.JUnitTestClassExecutor.runTestClass(JUni
tTestClassExecutor.java:108)
org.gradle.api.internal.tasks.testing.junit.JUnitTestClassExecutor.execute(JUnitTest
ClassExecutor.java:58)
org.gradle.api.internal.tasks.testing.junit.JUnitTestClassExecutor.execute(JUnitTest
ClassExecutor.java:40)
org.gradle.api.internal.tasks.testing.junit.AbstractJUnitTestClassProcessor.processT
estClass(AbstractJUnitTestClassProcessor.java:60)
org.gradle.api.internal.tasks.testing.SuiteTestClassProcessor.processTestClass(Suite
TestClassProcessor.java:52)
java.base/jdk.internal.reflect.NativeMethodAccessorImpl.invoke0(Native Method)
java.base/jdk.internal.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorI
mpl.java:62)
java.base/jdk.internal.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodA
ccessorImpl.java:43)
org.gradle.internal.dispatch.ReflectionDispatch.dispatch(ReflectionDispatch.java:36)
org.gradle.internal.dispatch.ReflectionDispatch.dispatch(ReflectionDispatch.java:24)
org.gradle.internal.dispatch.ContextClassLoaderDispatch.dispatch(ContextClassLoaderD
ispatch.java:33)
org.gradle.internal.dispatch.ProxyDispatchAdapter$DispatchingInvocationHandler.invok
e(ProxyDispatchAdapter.java:94)
org.gradle.api.internal.tasks.testing.worker.TestWorker$2.run(TestWorker.java:176)
org.gradle.api.internal.tasks.testing.worker.TestWorker.executeAndMaintainThreadName
(TestWorker.java:129)
org.gradle.api.internal.tasks.testing.worker.TestWorker.execute(TestWorker.java:100)
```

```
org.gradle.api.internal.tasks.testing.worker.TestWorker.execute(TestWorker.java:60)
org.gradle.process.internal.worker.child.ActionExecutionWorker.execute(ActionExecuti
onWorker.java:56)
org.gradle.process.internal.worker.child.SystemApplicationClassLoaderWorker.call(Sys
temApplicationClassLoaderWorker.java:113)
org.gradle.process.internal.worker.child.SystemApplicationClassLoaderWorker.call(Sys
temApplicationClassLoaderWorker.java:65)
worker.org.gradle.process.internal.worker.GradleWorkerMain.run(GradleWorkerMain.java
:69)
worker.org.gradle.process.internal.worker.GradleWorkerMain.main(GradleWorkerMain.jav
a:74)
```

A scenario with nested steps

☑ (5ms)

This scenario contains nested steps.

Given I fill out the registration form with valid values

- I enter a name *Franky*
  - I think a name *Franky*
  - **And** I write the name *Franky*
- **And** I enter a email address *franky@acme.com*
- **And** I enter a password *password1234*
- **And** I enter a repeated password *password1234*

When I submit the form

Then the password matches

Parameter Formatting

☑ 1 Successful, ❗ 0 Failed, ⃠ 0 Pending, 1 Total (0ms)

Parameters can be formatted

☑

Given a machine that is <**onOff**>

Then the power light <**isOrIsNot**> on

Table 5. Cases

#	onOff	isOrIsNot	Status
1	on	is	SUCCESS
2	off	is not	SUCCESS

Parameterized Pan Cake Scenario

☑ 1 Successful, ❗ 0 Failed, ⃠ 0 Pending, 1 Total (2ms)

A meal can be fried out of an egg milk and some ingredient

☑ (2ms)

Given an egg

And some milk

And the ingredient <**ingredient**>

When the cook mangles everthing to a dough

And the cook fries the dough in a pan

Then the resulting meal is a <**expectedMeal**>

Table 6. Cases

#	ingredient	expectedMeal	Status
1	flour	pancake	SUCCESS
2	sugar	mishmash	SUCCESS

Parametrized Scenarios

☑ 4 Successful, ❗ 1 Failed, ⃠ 0 Pending, 5 Total (58ms)

A scenario with many cases

❗ (50ms)

This scenario shows how large case tables are shown in JGiven. As soon as a table has more than 2 entries, grouping by values is possible. This scenario also has some failing steps for demonstration purposes.<p>Btw. this description was created with the @ExtendedDescription annotation

Tags: *FailingOnPurpose*

Given some group value <**grouping**>

And another value <**value**>

Table 7. Cases

#	grouping	value	Status
1	some grouping value 0	value 0	SUCCESS
2	some grouping value 0	value 1	SUCCESS

#	grouping	value	Status
3	some grouping value 0	value 2	SUCCESS
4	some grouping value 0	value 3	SUCCESS
5	some grouping value 0	value 4	SUCCESS
6	some grouping value 0	value 5	FAILED
7	some grouping value 0	value 6	SUCCESS
8	some grouping value 0	value 7	SUCCESS
9	some grouping value 0	value 8	SUCCESS
10	some grouping value 0	value 9	SUCCESS
11	some grouping value 1	value 0	SUCCESS
12	some grouping value 1	value 1	SUCCESS
13	some grouping value 1	value 2	SUCCESS
14	some grouping value 1	value 3	SUCCESS
15	some grouping value 1	value 4	SUCCESS
16	some grouping value 1	value 5	FAILED
17	some grouping value 1	value 6	SUCCESS
18	some grouping value 1	value 7	SUCCESS
19	some grouping value 1	value 8	SUCCESS
20	some grouping value 1	value 9	SUCCESS
21	some grouping value 2	value 0	SUCCESS
22	some grouping value 2	value 1	SUCCESS
23	some grouping value 2	value 2	SUCCESS
24	some grouping value 2	value 3	SUCCESS
25	some grouping value 2	value 4	SUCCESS
26	some grouping value 2	value 5	FAILED
27	some grouping value 2	value 6	SUCCESS
28	some grouping value 2	value 7	SUCCESS
29	some grouping value 2	value 8	SUCCESS
30	some grouping value 2	value 9	SUCCESS
31	some grouping value 3	value 0	SUCCESS
32	some grouping value 3	value 1	SUCCESS
33	some grouping value 3	value 2	SUCCESS
34	some grouping value 3	value 3	SUCCESS
35	some grouping value 3	value 4	SUCCESS

#	grouping	value	Status
36	some grouping value 3	value 5	FAILED
37	some grouping value 3	value 6	SUCCESS
38	some grouping value 3	value 7	SUCCESS
39	some grouping value 3	value 8	SUCCESS
40	some grouping value 3	value 9	SUCCESS
41	some grouping value 4	value 0	SUCCESS
42	some grouping value 4	value 1	SUCCESS
43	some grouping value 4	value 2	SUCCESS
44	some grouping value 4	value 3	SUCCESS
45	some grouping value 4	value 4	SUCCESS
46	some grouping value 4	value 5	FAILED
47	some grouping value 4	value 6	SUCCESS
48	some grouping value 4	value 7	SUCCESS
49	some grouping value 4	value 8	SUCCESS
50	some grouping value 4	value 9	SUCCESS
51	some grouping value 5	value 0	SUCCESS
52	some grouping value 5	value 1	SUCCESS
53	some grouping value 5	value 2	SUCCESS
54	some grouping value 5	value 3	SUCCESS
55	some grouping value 5	value 4	SUCCESS
56	some grouping value 5	value 5	FAILED
57	some grouping value 5	value 6	SUCCESS
58	some grouping value 5	value 7	SUCCESS
59	some grouping value 5	value 8	SUCCESS
60	some grouping value 5	value 9	SUCCESS
61	some grouping value 6	value 0	SUCCESS
62	some grouping value 6	value 1	SUCCESS
63	some grouping value 6	value 2	SUCCESS
64	some grouping value 6	value 3	SUCCESS
65	some grouping value 6	value 4	SUCCESS
66	some grouping value 6	value 5	FAILED
67	some grouping value 6	value 6	SUCCESS
68	some grouping value 6	value 7	SUCCESS

#	grouping	value	Status
69	some grouping value 6	value 8	SUCCESS
70	some grouping value 6	value 9	SUCCESS
71	some grouping value 7	value 0	SUCCESS
72	some grouping value 7	value 1	SUCCESS
73	some grouping value 7	value 2	SUCCESS
74	some grouping value 7	value 3	SUCCESS
75	some grouping value 7	value 4	SUCCESS
76	some grouping value 7	value 5	FAILED
77	some grouping value 7	value 6	SUCCESS
78	some grouping value 7	value 7	SUCCESS
79	some grouping value 7	value 8	SUCCESS
80	some grouping value 7	value 9	SUCCESS
81	some grouping value 8	value 0	SUCCESS
82	some grouping value 8	value 1	SUCCESS
83	some grouping value 8	value 2	SUCCESS
84	some grouping value 8	value 3	SUCCESS
85	some grouping value 8	value 4	SUCCESS
86	some grouping value 8	value 5	FAILED
87	some grouping value 8	value 6	SUCCESS
88	some grouping value 8	value 7	SUCCESS
89	some grouping value 8	value 8	SUCCESS
90	some grouping value 8	value 9	SUCCESS
91	some grouping value 9	value 0	SUCCESS
92	some grouping value 9	value 1	SUCCESS
93	some grouping value 9	value 2	SUCCESS
94	some grouping value 9	value 3	SUCCESS
95	some grouping value 9	value 4	SUCCESS
96	some grouping value 9	value 5	FAILED
97	some grouping value 9	value 6	SUCCESS
98	some grouping value 9	value 7	SUCCESS
99	some grouping value 9	value 8	SUCCESS
100	some grouping value 9	value 9	SUCCESS

Cases can have custom descriptions

☑ (1ms)

Case 1 This is the first case

description = This is the first case, value = true

Given the power light *is* on

Case 2 This is another case

description = This is another case, value = false

Given a machine that is *on*

Custom descriptions of cases appear as a separate column in the data table

☑ (1ms)

Given the power light <**value**> on

Table 8. Cases

#	Description	value	Status
1	This is the first case	is	SUCCESS
2	This is another case	is not	SUCCESS

Multiple cases are reported if a data table cannot be generated

☑

Case 1

value = true

Given the power light *is* on

Case 2

value = false

Given a machine that is *on*

Parameter values with very long text are truncated in the html report

☑ (4ms)

Given a very long parameter value <**x**>

Table 9. Cases

#	Description	x	Status
1	1	1xxxxxxxxxxxxxxxxxxx xxxxxxxxxxxxxxxxxxxx	SUCCESS

#	Description	x	Status
2	2	2xxxxxxxxxxxxxxxxxx xxxxxxxxxxxxxxxxxxx	SUCCESS

Pending Example

☑ 0 Successful, ❗ 0 Failed, 🚫 3 Pending, 3 Total (3ms)

As a good BDD practitioner,
I want to write my scenarios before I start coding
In order to discuss them with business stakeholders

Multiple cases can be pending

🚫 (1ms)

Tags: *Pending Annotation*

Given some state 🚫

When a <**actionCount**> action 🚫

Then some result 🚫

Table 10. Cases

#	actionCount	Status
1	1st	SCENARIO_PENDING
2	2nd	SCENARIO_PENDING

Scenarios that are pending can be annotated with the Pending annotation

🚫

Tags: *Pending Annotation*

Given some state 🚫

When some action 🚫

Then some result 🚫

Single steps can be annotated with Pending

🚫

Tags: *Pending Annotation*

Given some state ☑

When some pending action 🚫

Then some result ☑

Rocket

☑ 1 Successful, ❗ 0 Failed, 🚫 0 Pending, 1 Total (1ms)

First Test of new Rocket

☑ (1ms)

When launch rocket
Actually uses a rocket simulator

Then rocket is launched

Rules Example

☑ 1 Successful, ❗ 0 Failed, ⃠ 0 Pending, 1 Total (0ms)

Rules work as expected

☑

Given resource is allocated

Section

☑ 1 Successful, ❗ 0 Failed, ⃠ 0 Pending, 1 Total (0ms)

Large scenarios can be structured by sections.

Scenarios can have sections

☑

The first section
Given something

When something

Then something

When something else

Then something else

Serve Coffee

☑ 11 Successful, ❗ 4 Failed, ⃠ 0 Pending, 15 Total (1s 121ms)

In order to refresh myself</br>as a customer</br>I want coffee to be served

A failing scenario for demonstration purposes

❗ (20ms)

Tags: *FailingOnPurpose*

Given a coffee machine ☑
An empty coffee machine that is already turned on.
The coffee price is set to 2 EUR.

And there are no more coffees left ☑

When I press the coffee button ☑

Then I should be served a coffee ❗

And steps following a failed step should be skipped ⃠
This step is still visible in the report, but was actually not executed. It is marked as skipped in the report.

▼ *org.opentest4j.AssertionFailedError:*

expected: true but was: false

```
java.base/jdk.internal.reflect.NativeConstructorAccessorImpl.newInstance0(Native
Method)
java.base/jdk.internal.reflect.NativeConstructorAccessorImpl.newInstance(NativeConst
ructorAccessorImpl.java:62)
java.base/jdk.internal.reflect.DelegatingConstructorAccessorImpl.newInstance(Delegat
ingConstructorAccessorImpl.java:45)
com.tngtech.jgiven.examples.coffeemachine.steps.ThenCoffee.I_should_be_served_a_coff
ee(ThenCoffee.java:30)
com.tngtech.jgiven.examples.coffeemachine.steps.ThenCoffee.I_should_be_served_a_coff
ee(ThenCoffee.java:58)
com.tngtech.jgiven.examples.coffeemachine.steps.ThenCoffee$ByteBuddy$SyWjwby8.I_shou
ld_be_served_a_coffee$accessor$l4LzqPjN(Unknown Source)
com.tngtech.jgiven.examples.coffeemachine.steps.ThenCoffee$ByteBuddy$SyWjwby8$auxili
ary$LFK0cHyV.call(Unknown Source)
com.tngtech.jgiven.examples.coffeemachine.steps.ThenCoffee$ByteBuddy$SyWjwby8.I_shou
ld_be_served_a_coffee(Unknown Source)
com.tngtech.jgiven.examples.coffeemachine.ServeCoffeeTest.a_failing_scenario_for_dem
onstration_purposes(ServeCoffeeTest.java:148)
java.base/jdk.internal.reflect.NativeMethodAccessorImpl.invoke0(Native Method)
java.base/jdk.internal.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorI
mpl.java:62)
java.base/jdk.internal.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodA
ccessorImpl.java:43)
org.junit.runners.model.FrameworkMethod$1.runReflectiveCall(FrameworkMethod.java:59)
org.junit.internal.runners.model.ReflectiveCallable.run(ReflectiveCallable.java:12)
org.junit.runners.model.FrameworkMethod.invokeExplosively(FrameworkMethod.java:56)
org.junit.internal.runners.statements.InvokeMethod.evaluate(InvokeMethod.java:17)
com.tngtech.jgiven.junit.JGivenMethodRule$1.evaluate(JGivenMethodRule.java:73)
org.junit.runners.ParentRunner$3.evaluate(ParentRunner.java:306)
org.junit.runners.BlockJUnit4ClassRunner$1.evaluate(BlockJUnit4ClassRunner.java:100)
org.junit.runners.ParentRunner.runLeaf(ParentRunner.java:366)
org.junit.runners.BlockJUnit4ClassRunner.runChild(BlockJUnit4ClassRunner.java:103)
org.junit.runners.BlockJUnit4ClassRunner.runChild(BlockJUnit4ClassRunner.java:63)
org.junit.runners.ParentRunner$4.run(ParentRunner.java:331)
org.junit.runners.ParentRunner$1.schedule(ParentRunner.java:79)
```

```
org.junit.runners.ParentRunner.runChildren(ParentRunner.java:329)
org.junit.runners.ParentRunner.access$100(ParentRunner.java:66)
org.junit.runners.ParentRunner$2.evaluate(ParentRunner.java:293)
org.junit.rules.TestWatcher$1.evaluate(TestWatcher.java:61)
org.junit.rules.RunRules.evaluate(RunRules.java:20)
org.junit.runners.ParentRunner$3.evaluate(ParentRunner.java:306)
org.junit.runners.ParentRunner.run(ParentRunner.java:413)
org.gradle.api.internal.tasks.testing.junit.JUnitTestClassExecutor.runTestClass(JUni
tTestClassExecutor.java:108)
org.gradle.api.internal.tasks.testing.junit.JUnitTestClassExecutor.execute(JUnitTest
ClassExecutor.java:58)
org.gradle.api.internal.tasks.testing.junit.JUnitTestClassExecutor.execute(JUnitTest
ClassExecutor.java:40)
org.gradle.api.internal.tasks.testing.junit.AbstractJUnitTestClassProcessor.processT
estClass(AbstractJUnitTestClassProcessor.java:60)
org.gradle.api.internal.tasks.testing.SuiteTestClassProcessor.processTestClass(Suite
TestClassProcessor.java:52)
java.base/jdk.internal.reflect.NativeMethodAccessorImpl.invoke0(Native Method)
java.base/jdk.internal.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorI
mpl.java:62)
java.base/jdk.internal.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodA
ccessorImpl.java:43)
org.gradle.internal.dispatch.ReflectionDispatch.dispatch(ReflectionDispatch.java:36)
org.gradle.internal.dispatch.ReflectionDispatch.dispatch(ReflectionDispatch.java:24)
org.gradle.internal.dispatch.ContextClassLoaderDispatch.dispatch(ContextClassLoaderD
ispatch.java:33)
org.gradle.internal.dispatch.ProxyDispatchAdapter$DispatchingInvocationHandler.invok
e(ProxyDispatchAdapter.java:94)
org.gradle.api.internal.tasks.testing.worker.TestWorker$2.run(TestWorker.java:176)
org.gradle.api.internal.tasks.testing.worker.TestWorker.executeAndMaintainThreadName
(TestWorker.java:129)
org.gradle.api.internal.tasks.testing.worker.TestWorker.execute(TestWorker.java:100)
org.gradle.api.internal.tasks.testing.worker.TestWorker.execute(TestWorker.java:60)
org.gradle.process.internal.worker.child.ActionExecutionWorker.execute(ActionExecuti
onWorker.java:56)
org.gradle.process.internal.worker.child.SystemApplicationClassLoaderWorker.call(Sys
temApplicationClassLoaderWorker.java:113)
org.gradle.process.internal.worker.child.SystemApplicationClassLoaderWorker.call(Sys
temApplicationClassLoaderWorker.java:65)
worker.org.gradle.process.internal.worker.GradleWorkerMain.run(GradleWorkerMain.java
:69)
worker.org.gradle.process.internal.worker.GradleWorkerMain.main(GradleWorkerMain.jav
a:74)
```

A scenario with a failing test case for demonstration purposes

(5ms)

Tags: *FailingOnPurpose*

Case 1

withCoffees = true

Given a coffee machine
An empty coffee machine that is already turned on.
The coffee price is set to 2 EUR.

And there are *2* coffees left in the machine
The number of coffees in the machine is set to the given value.

When I insert *2* one euro coins

And I press the coffee button

Then I should be served a coffee

Case 2

withCoffees = false

Given a coffee machine ☑
An empty coffee machine that is already turned on.
The coffee price is set to 2 EUR.

When I insert *2* one euro coins ☑

And I press the coffee button ☑

Then I should be served a coffee ❗ (2ms)

▼ *org.opentest4j.AssertionFailedError:*

expected: true but was: false

```
java.base/jdk.internal.reflect.NativeConstructorAccessorImpl.newInstance0(Native
Method)
java.base/jdk.internal.reflect.NativeConstructorAccessorImpl.newInstance(NativeConst
ructorAccessorImpl.java:62)
java.base/jdk.internal.reflect.DelegatingConstructorAccessorImpl.newInstance(Delegat
ingConstructorAccessorImpl.java:45)
com.tngtech.jgiven.examples.coffeemachine.steps.ThenCoffee.I_should_be_served_a_coff
ee(ThenCoffee.java:30)
com.tngtech.jgiven.examples.coffeemachine.steps.ThenCoffee.I_should_be_served_a_coff
ee(ThenCoffee.java:58)
com.tngtech.jgiven.examples.coffeemachine.steps.ThenCoffee$ByteBuddy$SyWjwby8.I_shou
ld_be_served_a_coffee$accessor$l4LzqPjN(Unknown Source)
com.tngtech.jgiven.examples.coffeemachine.steps.ThenCoffee$ByteBuddy$SyWjwby8$auxili
ary$LFK0cHyV.call(Unknown Source)
com.tngtech.jgiven.examples.coffeemachine.steps.ThenCoffee$ByteBuddy$SyWjwby8.I_shou
ld_be_served_a_coffee(Unknown Source)
com.tngtech.jgiven.examples.coffeemachine.ServeCoffeeTest.a_scenario_with_a_failing_
```

```
test_case_for_demonstration_purposes(ServeCoffeeTest.java:167)
java.base/jdk.internal.reflect.NativeMethodAccessorImpl.invoke0(Native Method)
java.base/jdk.internal.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorI
mpl.java:62)
java.base/jdk.internal.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodA
ccessorImpl.java:43)
org.junit.runners.model.FrameworkMethod$1.runReflectiveCall(FrameworkMethod.java:59)
org.junit.internal.runners.model.ReflectiveCallable.run(ReflectiveCallable.java:12)
org.junit.runners.model.FrameworkMethod.invokeExplosively(FrameworkMethod.java:56)
com.tngtech.java.junit.dataprovider.DataProviderFrameworkMethod.invokeExplosively(Da
taProviderFrameworkMethod.java:76)
org.junit.internal.runners.statements.InvokeMethod.evaluate(InvokeMethod.java:17)
com.tngtech.jgiven.junit.JGivenMethodRule$1.evaluate(JGivenMethodRule.java:73)
org.junit.runners.ParentRunner$3.evaluate(ParentRunner.java:306)
org.junit.runners.BlockJUnit4ClassRunner$1.evaluate(BlockJUnit4ClassRunner.java:100)
org.junit.runners.ParentRunner.runLeaf(ParentRunner.java:366)
org.junit.runners.BlockJUnit4ClassRunner.runChild(BlockJUnit4ClassRunner.java:103)
org.junit.runners.BlockJUnit4ClassRunner.runChild(BlockJUnit4ClassRunner.java:63)
org.junit.runners.ParentRunner$4.run(ParentRunner.java:331)
org.junit.runners.ParentRunner$1.schedule(ParentRunner.java:79)
org.junit.runners.ParentRunner.runChildren(ParentRunner.java:329)
org.junit.runners.ParentRunner.access$100(ParentRunner.java:66)
org.junit.runners.ParentRunner$2.evaluate(ParentRunner.java:293)
org.junit.rules.TestWatcher$1.evaluate(TestWatcher.java:61)
org.junit.rules.RunRules.evaluate(RunRules.java:20)
org.junit.runners.ParentRunner$3.evaluate(ParentRunner.java:306)
org.junit.runners.ParentRunner.run(ParentRunner.java:413)
org.gradle.api.internal.tasks.testing.junit.JUnitTestClassExecutor.runTestClass(JUni
tTestClassExecutor.java:108)
org.gradle.api.internal.tasks.testing.junit.JUnitTestClassExecutor.execute(JUnitTest
ClassExecutor.java:58)
org.gradle.api.internal.tasks.testing.junit.JUnitTestClassExecutor.execute(JUnitTest
ClassExecutor.java:40)
org.gradle.api.internal.tasks.testing.junit.AbstractJUnitTestClassProcessor.processT
estClass(AbstractJUnitTestClassProcessor.java:60)
org.gradle.api.internal.tasks.testing.SuiteTestClassProcessor.processTestClass(Suite
TestClassProcessor.java:52)
java.base/jdk.internal.reflect.NativeMethodAccessorImpl.invoke0(Native Method)
java.base/jdk.internal.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorI
mpl.java:62)
java.base/jdk.internal.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodA
ccessorImpl.java:43)
org.gradle.internal.dispatch.ReflectionDispatch.dispatch(ReflectionDispatch.java:36)
org.gradle.internal.dispatch.ReflectionDispatch.dispatch(ReflectionDispatch.java:24)
org.gradle.internal.dispatch.ContextClassLoaderDispatch.dispatch(ContextClassLoaderD
ispatch.java:33)
org.gradle.internal.dispatch.ProxyDispatchAdapter$DispatchingInvocationHandler.invok
e(ProxyDispatchAdapter.java:94)
org.gradle.api.internal.tasks.testing.worker.TestWorker$2.run(TestWorker.java:176)
org.gradle.api.internal.tasks.testing.worker.TestWorker.executeAndMaintainThreadName
(TestWorker.java:129)
```

```
org.gradle.api.internal.tasks.testing.worker.TestWorker.execute(TestWorker.java:100)
org.gradle.api.internal.tasks.testing.worker.TestWorker.execute(TestWorker.java:60)
org.gradle.process.internal.worker.child.ActionExecutionWorker.execute(ActionExecuti
onWorker.java:56)
org.gradle.process.internal.worker.child.SystemApplicationClassLoaderWorker.call(Sys
temApplicationClassLoaderWorker.java:113)
org.gradle.process.internal.worker.child.SystemApplicationClassLoaderWorker.call(Sys
temApplicationClassLoaderWorker.java:65)
worker.org.gradle.process.internal.worker.GradleWorkerMain.run(GradleWorkerMain.java
:69)
worker.org.gradle.process.internal.worker.GradleWorkerMain.main(GradleWorkerMain.jav
a:74)
```

A turned off coffee machine cannot serve coffee

☑ (2ms)

Given a coffee machine
An empty coffee machine that is already turned on.
The coffee price is set to 2 EUR.

And the machine is turned off

When I press the coffee button

Then no coffee should be served

An empty coffee machine cannot serve any coffee

☑ (1ms)

Tags: *Order*

Given an empty coffee machine

When I insert *5* one euro coins

And I press the coffee button

Then an error should be shown

And no coffee should be served

Buy a coffee

☑ (11ms)

Tags: *TagsWithCustomStyle*

Given a coffee machine
An empty coffee machine that is already turned on.
The coffee price is set to 2 EUR.

And there are <**coffees**> coffees left in the machine

The number of coffees in the machine is set to the given value.

And the machine is <**onOrOff**>

And the coffee costs *2* euros

When I insert <**dollars**> one euro coins

And I press the coffee button

Then I <**shouldOrShouldNot**> be served a coffee

Table 11. Cases

#	coffees	onOrOff	dollars	shouldOrShouldNot	Status
1	1	on	1	should not	SUCCESS
2	1	on	2	should	SUCCESS
3	0	on	2	should not	SUCCESS
4	1	off	2	should not	SUCCESS

Coffe making gets better

☑ (5ms)

Given a coffee machine
An empty coffee machine that is already turned on.
The coffee price is set to 2 EUR.

When I make coffee for the <**runNr**> time

Then the result is <**result**>

Table 12. Cases

#	Description	runNr	result	Status
1	On the first run	1	quite ok	SUCCESS
2	And on the second run	2	well-done	SUCCESS

Coffee is not served

☑ (4ms)

Given a coffee machine
An empty coffee machine that is already turned on.
The coffee price is set to 2 EUR.

And the coffee costs *2* euros

And there are <**coffees**> coffees left in the machine
The number of coffees in the machine is set to the given value.

When I insert <**euros**> one euro coins

And I press the coffee button

Then I should not be served a coffee

Table 13. Cases

#	coffees	euros	Status
1	1	1	SUCCESS
2	0	2	SUCCESS
3	1	0	SUCCESS

Correct messages are shown

☑ (10ms)

Tags: *Data Tables*

Given a coffee machine
An empty coffee machine that is already turned on.
The coffee price is set to 2 EUR.

And there are <**coffees left**> coffees left in the machine
The number of coffees in the machine is set to the given value.

When I insert <**number of coins**> one euro coins

And I press the coffee button

Then the message <**message**> is shown

Table 14. Cases

#	coffees left	number of coins	message	Status
1	0	0	Error: No coffees left	SUCCESS
2	0	1	Error: No coffees left	SUCCESS
3	1	0	Error: Insufficient money	SUCCESS
4	0	5	Error: No coffees left	SUCCESS
5	1	5	Enjoy your coffee!	SUCCESS

Intro words are not required

☑ (1ms)

Given a coffee machine
An empty coffee machine that is already turned on.
The coffee price is set to 2 EUR.

the coffee costs *5* euros

there are *3* coffees left in the machine
The number of coffees in the machine is set to the given value.

When I press the coffee button

Then an error should be shown

no coffee should be served

Long error messages should wrapped

Tags: *FailingOnPurpose*

Given an exception with a very long message

▼ *java.lang.RuntimeException: This is a very long exception message that should be wrapped at some point in the report and it is even longer than that*

```
com.tngtech.jgiven.examples.coffeemachine.steps.GivenCoffee.an_exception_with_a_very
_long_message(GivenCoffee.java:57)
com.tngtech.jgiven.examples.coffeemachine.steps.GivenCoffee$ByteBuddy$CawmqOAR.an_ex
ception_with_a_very_long_message$accessor$XXLbcv9O(Unknown Source)
com.tngtech.jgiven.examples.coffeemachine.steps.GivenCoffee$ByteBuddy$CawmqOAR$auxil
iary$2lU5k1qB.call(Unknown Source)
com.tngtech.jgiven.examples.coffeemachine.steps.GivenCoffee$ByteBuddy$CawmqOAR.an_ex
ception_with_a_very_long_message(Unknown Source)
com.tngtech.jgiven.examples.coffeemachine.ServeCoffeeTest.long_error_messages_should
_wrapped(ServeCoffeeTest.java:231)
java.base/jdk.internal.reflect.NativeMethodAccessorImpl.invoke0(Native Method)
java.base/jdk.internal.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorI
mpl.java:62)
java.base/jdk.internal.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodA
ccessorImpl.java:43)
org.junit.runners.model.FrameworkMethod$1.runReflectiveCall(FrameworkMethod.java:59)
org.junit.internal.runners.model.ReflectiveCallable.run(ReflectiveCallable.java:12)
org.junit.runners.model.FrameworkMethod.invokeExplosively(FrameworkMethod.java:56)
org.junit.internal.runners.statements.InvokeMethod.evaluate(InvokeMethod.java:17)
com.tngtech.jgiven.junit.JGivenMethodRule$1.evaluate(JGivenMethodRule.java:73)
org.junit.runners.ParentRunner$3.evaluate(ParentRunner.java:306)
org.junit.runners.BlockJUnit4ClassRunner$1.evaluate(BlockJUnit4ClassRunner.java:100)
org.junit.runners.ParentRunner.runLeaf(ParentRunner.java:366)
org.junit.runners.BlockJUnit4ClassRunner.runChild(BlockJUnit4ClassRunner.java:103)
org.junit.runners.BlockJUnit4ClassRunner.runChild(BlockJUnit4ClassRunner.java:63)
org.junit.runners.ParentRunner$4.run(ParentRunner.java:331)
org.junit.runners.ParentRunner$1.schedule(ParentRunner.java:79)
org.junit.runners.ParentRunner.runChildren(ParentRunner.java:329)
org.junit.runners.ParentRunner.access$100(ParentRunner.java:66)
org.junit.runners.ParentRunner$2.evaluate(ParentRunner.java:293)
org.junit.rules.TestWatcher$1.evaluate(TestWatcher.java:61)
```

```
org.junit.rules.RunRules.evaluate(RunRules.java:20)
org.junit.runners.ParentRunner$3.evaluate(ParentRunner.java:306)
org.junit.runners.ParentRunner.run(ParentRunner.java:413)
org.gradle.api.internal.tasks.testing.junit.JUnitTestClassExecutor.runTestClass(JUni
tTestClassExecutor.java:108)
org.gradle.api.internal.tasks.testing.junit.JUnitTestClassExecutor.execute(JUnitTest
ClassExecutor.java:58)
org.gradle.api.internal.tasks.testing.junit.JUnitTestClassExecutor.execute(JUnitTest
ClassExecutor.java:40)
org.gradle.api.internal.tasks.testing.junit.AbstractJUnitTestClassProcessor.processT
estClass(AbstractJUnitTestClassProcessor.java:60)
org.gradle.api.internal.tasks.testing.SuiteTestClassProcessor.processTestClass(Suite
TestClassProcessor.java:52)
java.base/jdk.internal.reflect.NativeMethodAccessorImpl.invoke0(Native Method)
java.base/jdk.internal.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorI
mpl.java:62)
java.base/jdk.internal.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodA
ccessorImpl.java:43)
org.gradle.internal.dispatch.ReflectionDispatch.dispatch(ReflectionDispatch.java:36)
org.gradle.internal.dispatch.ReflectionDispatch.dispatch(ReflectionDispatch.java:24)
org.gradle.internal.dispatch.ContextClassLoaderDispatch.dispatch(ContextClassLoaderD
ispatch.java:33)
org.gradle.internal.dispatch.ProxyDispatchAdapter$DispatchingInvocationHandler.invok
e(ProxyDispatchAdapter.java:94)
org.gradle.api.internal.tasks.testing.worker.TestWorker$2.run(TestWorker.java:176)
org.gradle.api.internal.tasks.testing.worker.TestWorker.executeAndMaintainThreadName
(TestWorker.java:129)
org.gradle.api.internal.tasks.testing.worker.TestWorker.execute(TestWorker.java:100)
org.gradle.api.internal.tasks.testing.worker.TestWorker.execute(TestWorker.java:60)
org.gradle.process.internal.worker.child.ActionExecutionWorker.execute(ActionExecuti
onWorker.java:56)
org.gradle.process.internal.worker.child.SystemApplicationClassLoaderWorker.call(Sys
temApplicationClassLoaderWorker.java:113)
org.gradle.process.internal.worker.child.SystemApplicationClassLoaderWorker.call(Sys
temApplicationClassLoaderWorker.java:65)
worker.org.gradle.process.internal.worker.GradleWorkerMain.run(GradleWorkerMain.java
:69)
worker.org.gradle.process.internal.worker.GradleWorkerMain.main(GradleWorkerMain.jav
a:74)
```

No coffee left error is shown when there is no coffee left

☑ (4ms)

Tags: *Order*

Given an empty coffee machine

When I insert *5* one euro coins

And I press the coffee button

Then the message *Error: No coffees left* is shown

Not enough money message is shown when insufficient money was given

☑ (1ms)

Tags: *Order*

Given a coffee machine
An empty coffee machine that is already turned on.
The coffee price is set to 2 EUR.

And there are *2* coffees left in the machine
The number of coffees in the machine is set to the given value.

When I insert *1* one euro coins

And I press the coffee button

Then the message *Error: Insufficient money* is shown

Serving a coffee reduces the number of available coffees by one

☑ (10ms)

Tags: *Data Tables*

Given a coffee machine
An empty coffee machine that is already turned on.
The coffee price is set to 2 EUR.

And there are <**initial coffees**> coffees left in the machine
The number of coffees in the machine is set to the given value.

When I insert *2* one euro coins

And I press the coffee button

Then a coffee should be served

And there are <**coffees left**> coffees left in the machine <**coffees left**>

Table 15. Cases

#	initial coffees	coffees left	Status
1	1	0	SUCCESS
2	3	2	SUCCESS
3	10	9	SUCCESS

Should fail with unexpected runtime exception

❗ (1s 8ms)

Tags: *FailingOnPurpose*

Then *should throw a runtime exception* ❗ (1s 0ms)

▼ *java.lang.InterruptedException: sleep interrupted*

```
java.base@11.0.16.1/java.lang.Thread.sleep(Native Method)
app//com.tngtech.jgiven.examples.coffeemachine.ServeCoffeeTest$1.apply(ServeCoffeeTe
st.java:209)
app//com.tngtech.jgiven.examples.coffeemachine.ServeCoffeeTest$1.apply(ServeCoffeeTe
st.java:205)
app//com.tngtech.jgiven.base.StageBase.$(StageBase.java:43)
app//com.tngtech.jgiven.examples.coffeemachine.steps.ThenCoffee$ByteBuddy$SyWjwby8.$
$accessor$l4LzqPjN(Unknown Source)
app//com.tngtech.jgiven.examples.coffeemachine.steps.ThenCoffee$ByteBuddy$SyWjwby8$a
uxiliary$RSo8W9ea.call(Unknown Source)
app//com.tngtech.jgiven.examples.coffeemachine.steps.ThenCoffee$ByteBuddy$SyWjwby8.$
(Unknown Source)
app//com.tngtech.jgiven.examples.coffeemachine.steps.ThenCoffee$ByteBuddy$SyWjwby8.$
(Unknown Source)
app//com.tngtech.jgiven.examples.coffeemachine.ServeCoffeeTest.shouldFailWithUnexpec
tedRuntimeException(ServeCoffeeTest.java:204)
java.base@11.0.16.1/jdk.internal.reflect.NativeMethodAccessorImpl.invoke0(Native
Method)
java.base@11.0.16.1/jdk.internal.reflect.NativeMethodAccessorImpl.invoke(NativeMetho
dAccessorImpl.java:62)
java.base@11.0.16.1/jdk.internal.reflect.DelegatingMethodAccessorImpl.invoke(Delegat
ingMethodAccessorImpl.java:43)
app//org.junit.runners.model.FrameworkMethod$1.runReflectiveCall(FrameworkMethod.jav
a:59)
app//org.junit.internal.runners.model.ReflectiveCallable.run(ReflectiveCallable.java
:12)
app//org.junit.runners.model.FrameworkMethod.invokeExplosively(FrameworkMethod.java:
56)
app//org.junit.internal.runners.statements.InvokeMethod.evaluate(InvokeMethod.java:1
7)
app//org.junit.internal.runners.statements.FailOnTimeout$CallableStatement.call(Fail
OnTimeout.java:299)
app//org.junit.internal.runners.statements.FailOnTimeout$CallableStatement.call(Fail
OnTimeout.java:293)
java.base@11.0.16.1/java.util.concurrent.FutureTask.run(FutureTask.java:264)
java.base@11.0.16.1/java.lang.Thread.run(Thread.java:829)
```

Turned off machines should not serve coffee

☑ (32ms)

Tags: *Case Diffs*

Case 1

```
onOrOff = true
```

Given a coffee machine
An empty coffee machine that is already turned on.
The coffee price is set to 2 EUR.

And there are *2* coffees left in the machine
The number of coffees in the machine is set to the given value.

And the machine is *on*

When I insert *2* one euro coins

And I press the coffee button

Then I should be served a coffee

Case 2

```
onOrOff = false
```

Given a coffee machine
An empty coffee machine that is already turned on.
The coffee price is set to 2 EUR.

And there are *2* coffees left in the machine
The number of coffees in the machine is set to the given value.

And the machine is *off*

When I insert *2* one euro coins

And I press the coffee button

Then I should not be served a coffee

And no error is shown

Simple Scenario Test Example

☑ 3 Successful, ❗ 0 Failed, ⃠ 0 Pending, 3 Total (2ms)

Coffee should be served

☑

Given a coffee machine with *100* coffees

When enough money is deposited

And the coffee button is pressed

Then a cup of coffee is served

Coffee should not be served if not enough money is deposited

☑

Given a coffee machine

When *1* euros are deposited

And the coffee button is pressed

Then no cup of coffee is served

Coffee should not be served if there are no coffees left

☑ (1ms)

Given a coffee machine with *0* coffees

When enough money is deposited

And the coffee button is pressed

Then no cup of coffee is served

Spring Pan Cake Scenario

☑ 1 Successful, ❗ 0 Failed, ⦸ 0 Pending, 1 Total (4ms)

A pancake can be fried out of an egg milk and flour

☑ (4ms)

Given an egg

And some milk

And the ingredient *flour*

When the cook mangles everthing to a dough

And the cook fries the dough in a pan

Then the resulting meal is a pan cake

Step Tags

☑ 1 Successful, ❗ 0 Failed, ⦸ 0 Pending, 1 Total (4ms)

Premium members can order premium products

☑ (4ms)

Tags: *PremiumMembership*, *Shop*, *PremiumProduct*

Given a premium customer

And a product

And the product is only available for premium members

When the customer orders the product

Then the product is shipped

Tag Hierarchy Example

☑ 2 Successful, ❗ 0 Failed, ⦸ 0 Pending, 2 Total (1ms)

Parent tags can have values

☑

Tags: *TagThatIsNotVisibleInNavigation*, *AnotherExampleSubCategory*

Given tags annotated with tags that have values

When the report is generated

Then the tags appear in a hierarchy

Tags can form a hierarchy

☑

Tags: *ExampleSubCategory*

Given tags annotated with tags

When the report is generated

Then the tags appear in a hierarchy

Using Rules

☑ 1 Successful, ❗ 0 Failed, ⦸ 0 Pending, 1 Total (0ms)

Something should happen

☑

Given some state

When some action

Then some outcome

Failed Scenarios

There are 7 failed scenarios

A scenario with a multi line error message

(174ms)

Tags: *FailingOnPurpose*

Given multi line error message (142ms)

▼ *org.opentest4j.AssertionFailedError: [This*
message has multiple lines] Expecting value to be false but was true

```
java.base/jdk.internal.reflect.NativeConstructorAccessorImpl.newInstance0(Native
Method)
java.base/jdk.internal.reflect.NativeConstructorAccessorImpl.newInstance(NativeConst
ructorAccessorImpl.java:62)
java.base/jdk.internal.reflect.DelegatingConstructorAccessorImpl.newInstance(Delegat
ingConstructorAccessorImpl.java:45)
com.tngtech.jgiven.examples.FailingScenarioTest$Steps.multi_line_error_message(Faili
ngScenarioTest.java:23)
com.tngtech.jgiven.examples.FailingScenarioTest$Steps$ByteBuddy$Vk7bHq4u.multi_line_
error_message$accessor$aw89Qi3R(Unknown Source)
com.tngtech.jgiven.examples.FailingScenarioTest$Steps$ByteBuddy$Vk7bHq4u$auxiliary$f
jq2kY9Q.call(Unknown Source)
com.tngtech.jgiven.examples.FailingScenarioTest$Steps$ByteBuddy$Vk7bHq4u.multi_line_
error_message(Unknown Source)
com.tngtech.jgiven.examples.FailingScenarioTest.a_scenario_with_a_multi_line_error_m
essage(FailingScenarioTest.java:18)
java.base/jdk.internal.reflect.NativeMethodAccessorImpl.invoke0(Native Method)
java.base/jdk.internal.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorI
mpl.java:62)
java.base/jdk.internal.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodA
ccessorImpl.java:43)
org.junit.runners.model.FrameworkMethod$1.runReflectiveCall(FrameworkMethod.java:59)
org.junit.internal.runners.model.ReflectiveCallable.run(ReflectiveCallable.java:12)
org.junit.runners.model.FrameworkMethod.invokeExplosively(FrameworkMethod.java:56)
org.junit.internal.runners.statements.InvokeMethod.evaluate(InvokeMethod.java:17)
com.tngtech.jgiven.junit.JGivenMethodRule$1.evaluate(JGivenMethodRule.java:73)
org.junit.runners.ParentRunner$3.evaluate(ParentRunner.java:306)
org.junit.runners.BlockJUnit4ClassRunner$1.evaluate(BlockJUnit4ClassRunner.java:100)
org.junit.runners.ParentRunner.runLeaf(ParentRunner.java:366)
org.junit.runners.BlockJUnit4ClassRunner.runChild(BlockJUnit4ClassRunner.java:103)
org.junit.runners.BlockJUnit4ClassRunner.runChild(BlockJUnit4ClassRunner.java:63)
org.junit.runners.ParentRunner$4.run(ParentRunner.java:331)
org.junit.runners.ParentRunner$1.schedule(ParentRunner.java:79)
org.junit.runners.ParentRunner.runChildren(ParentRunner.java:329)
org.junit.runners.ParentRunner.access$100(ParentRunner.java:66)
org.junit.runners.ParentRunner$2.evaluate(ParentRunner.java:293)
org.junit.rules.TestWatcher$1.evaluate(TestWatcher.java:61)
org.junit.rules.RunRules.evaluate(RunRules.java:20)
org.junit.runners.ParentRunner$3.evaluate(ParentRunner.java:306)
```

```
org.junit.runners.ParentRunner.run(ParentRunner.java:413)
org.gradle.api.internal.tasks.testing.junit.JUnitTestClassExecutor.runTestClass(JUni
tTestClassExecutor.java:108)
org.gradle.api.internal.tasks.testing.junit.JUnitTestClassExecutor.execute(JUnitTest
ClassExecutor.java:58)
org.gradle.api.internal.tasks.testing.junit.JUnitTestClassExecutor.execute(JUnitTest
ClassExecutor.java:40)
org.gradle.api.internal.tasks.testing.junit.AbstractJUnitTestClassProcessor.processT
estClass(AbstractJUnitTestClassProcessor.java:60)
org.gradle.api.internal.tasks.testing.SuiteTestClassProcessor.processTestClass(Suite
TestClassProcessor.java:52)
java.base/jdk.internal.reflect.NativeMethodAccessorImpl.invoke0(Native Method)
java.base/jdk.internal.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorI
mpl.java:62)
java.base/jdk.internal.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodA
ccessorImpl.java:43)
org.gradle.internal.dispatch.ReflectionDispatch.dispatch(ReflectionDispatch.java:36)
org.gradle.internal.dispatch.ReflectionDispatch.dispatch(ReflectionDispatch.java:24)
org.gradle.internal.dispatch.ContextClassLoaderDispatch.dispatch(ContextClassLoaderD
ispatch.java:33)
org.gradle.internal.dispatch.ProxyDispatchAdapter$DispatchingInvocationHandler.invok
e(ProxyDispatchAdapter.java:94)
org.gradle.api.internal.tasks.testing.worker.TestWorker$2.run(TestWorker.java:176)
org.gradle.api.internal.tasks.testing.worker.TestWorker.executeAndMaintainThreadName
(TestWorker.java:129)
org.gradle.api.internal.tasks.testing.worker.TestWorker.execute(TestWorker.java:100)
org.gradle.api.internal.tasks.testing.worker.TestWorker.execute(TestWorker.java:60)
org.gradle.process.internal.worker.child.ActionExecutionWorker.execute(ActionExecuti
onWorker.java:56)
org.gradle.process.internal.worker.child.SystemApplicationClassLoaderWorker.call(Sys
temApplicationClassLoaderWorker.java:113)
org.gradle.process.internal.worker.child.SystemApplicationClassLoaderWorker.call(Sys
temApplicationClassLoaderWorker.java:65)
worker.org.gradle.process.internal.worker.GradleWorkerMain.run(GradleWorkerMain.java
:69)
worker.org.gradle.process.internal.worker.GradleWorkerMain.main(GradleWorkerMain.jav
a:74)
```

A scenario with a failing nested step on purpose

❗ (1ms)

Tags: *FailingOnPurpose*

Given I fill out the registration form with invalid values ❗ (1ms)

- I enter a name *Franky* ☑
  - I think a name *Franky* ☑
  - **And** I write the name *Franky* ☑

- **And** I enter a email address *franky@acme.com* ☑
- **And** something fails for demonstration purposes ❗

When I submit the form 🚫

Then the password matches 🚫

▼ *org.opentest4j.AssertionFailedError: [Fails on purpose]*

Expecting value to be false but was true

```
java.base/jdk.internal.reflect.NativeConstructorAccessorImpl.newInstance0(Native
Method)
java.base/jdk.internal.reflect.NativeConstructorAccessorImpl.newInstance(NativeConst
ructorAccessorImpl.java:62)
java.base/jdk.internal.reflect.DelegatingConstructorAccessorImpl.newInstance(Delegat
ingConstructorAccessorImpl.java:45)
com.tngtech.jgiven.examples.nested.NestedStepsTest$NestedStage.something_fails_for_d
emonstration_purposes(NestedStepsTest.java:72)
com.tngtech.jgiven.examples.nested.NestedStepsTest$NestedStage$ByteBuddy$LmQRfnWy.so
mething_fails_for_demonstration_purposes$accessor$Zj6zME7c(Unknown Source)
com.tngtech.jgiven.examples.nested.NestedStepsTest$NestedStage$ByteBuddy$LmQRfnWy$au
xiliary$YA6YRU7S.call(Unknown Source)
com.tngtech.jgiven.examples.nested.NestedStepsTest$NestedStage$ByteBuddy$LmQRfnWy.so
mething_fails_for_demonstration_purposes(Unknown Source)
com.tngtech.jgiven.examples.nested.NestedStepsTest$NestedStage.I_fill_out_the_regist
ration_form_with_invalid_values(NestedStepsTest.java:67)
com.tngtech.jgiven.examples.nested.NestedStepsTest$NestedStage$ByteBuddy$LmQRfnWy.I_
fill_out_the_registration_form_with_invalid_values$accessor$Zj6zME7c(Unknown Source)
com.tngtech.jgiven.examples.nested.NestedStepsTest$NestedStage$ByteBuddy$LmQRfnWy$au
xiliary$rAwdzEwx.call(Unknown Source)
com.tngtech.jgiven.examples.nested.NestedStepsTest$NestedStage$ByteBuddy$LmQRfnWy.I_
fill_out_the_registration_form_with_invalid_values(Unknown Source)
com.tngtech.jgiven.examples.nested.NestedStepsTest.a_scenario_with_a_failing_nested_
step_on_purpose(NestedStepsTest.java:32)
java.base/jdk.internal.reflect.NativeMethodAccessorImpl.invoke0(Native Method)
java.base/jdk.internal.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorI
mpl.java:62)
java.base/jdk.internal.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodA
ccessorImpl.java:43)
org.junit.runners.model.FrameworkMethod$1.runReflectiveCall(FrameworkMethod.java:59)
org.junit.internal.runners.model.ReflectiveCallable.run(ReflectiveCallable.java:12)
org.junit.runners.model.FrameworkMethod.invokeExplosively(FrameworkMethod.java:56)
org.junit.internal.runners.statements.InvokeMethod.evaluate(InvokeMethod.java:17)
com.tngtech.jgiven.junit.JGivenMethodRule$1.evaluate(JGivenMethodRule.java:73)
org.junit.runners.ParentRunner$3.evaluate(ParentRunner.java:306)
org.junit.runners.BlockJUnit4ClassRunner$1.evaluate(BlockJUnit4ClassRunner.java:100)
org.junit.runners.ParentRunner.runLeaf(ParentRunner.java:366)
org.junit.runners.BlockJUnit4ClassRunner.runChild(BlockJUnit4ClassRunner.java:103)
org.junit.runners.BlockJUnit4ClassRunner.runChild(BlockJUnit4ClassRunner.java:63)
org.junit.runners.ParentRunner$4.run(ParentRunner.java:331)
org.junit.runners.ParentRunner$1.schedule(ParentRunner.java:79)
```

```
org.junit.runners.ParentRunner.runChildren(ParentRunner.java:329)
org.junit.runners.ParentRunner.access$100(ParentRunner.java:66)
org.junit.runners.ParentRunner$2.evaluate(ParentRunner.java:293)
org.junit.rules.TestWatcher$1.evaluate(TestWatcher.java:61)
org.junit.rules.RunRules.evaluate(RunRules.java:20)
org.junit.runners.ParentRunner$3.evaluate(ParentRunner.java:306)
org.junit.runners.ParentRunner.run(ParentRunner.java:413)
org.gradle.api.internal.tasks.testing.junit.JUnitTestClassExecutor.runTestClass(JUni
tTestClassExecutor.java:108)
org.gradle.api.internal.tasks.testing.junit.JUnitTestClassExecutor.execute(JUnitTest
ClassExecutor.java:58)
org.gradle.api.internal.tasks.testing.junit.JUnitTestClassExecutor.execute(JUnitTest
ClassExecutor.java:40)
org.gradle.api.internal.tasks.testing.junit.AbstractJUnitTestClassProcessor.processT
estClass(AbstractJUnitTestClassProcessor.java:60)
org.gradle.api.internal.tasks.testing.SuiteTestClassProcessor.processTestClass(Suite
TestClassProcessor.java:52)
java.base/jdk.internal.reflect.NativeMethodAccessorImpl.invoke0(Native Method)
java.base/jdk.internal.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorI
mpl.java:62)
java.base/jdk.internal.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodA
ccessorImpl.java:43)
org.gradle.internal.dispatch.ReflectionDispatch.dispatch(ReflectionDispatch.java:36)
org.gradle.internal.dispatch.ReflectionDispatch.dispatch(ReflectionDispatch.java:24)
org.gradle.internal.dispatch.ContextClassLoaderDispatch.dispatch(ContextClassLoaderD
ispatch.java:33)
org.gradle.internal.dispatch.ProxyDispatchAdapter$DispatchingInvocationHandler.invok
e(ProxyDispatchAdapter.java:94)
org.gradle.api.internal.tasks.testing.worker.TestWorker$2.run(TestWorker.java:176)
org.gradle.api.internal.tasks.testing.worker.TestWorker.executeAndMaintainThreadName
(TestWorker.java:129)
org.gradle.api.internal.tasks.testing.worker.TestWorker.execute(TestWorker.java:100)
org.gradle.api.internal.tasks.testing.worker.TestWorker.execute(TestWorker.java:60)
org.gradle.process.internal.worker.child.ActionExecutionWorker.execute(ActionExecuti
onWorker.java:56)
org.gradle.process.internal.worker.child.SystemApplicationClassLoaderWorker.call(Sys
temApplicationClassLoaderWorker.java:113)
org.gradle.process.internal.worker.child.SystemApplicationClassLoaderWorker.call(Sys
temApplicationClassLoaderWorker.java:65)
worker.org.gradle.process.internal.worker.GradleWorkerMain.run(GradleWorkerMain.java
:69)
worker.org.gradle.process.internal.worker.GradleWorkerMain.main(GradleWorkerMain.jav
a:74)
```

A scenario with many cases

(50ms)

This scenario shows how large case tables are shown in JGiven. As soon as a table has more than 2 entries, grouping by values is possible. This scenario also has some failing steps for demonstration

purposes.<p>Btw. this description was created with the @ExtendedDescription annotation

Tags: *FailingOnPurpose*

Given some group value <**grouping**>

And another value <**value**>

Table 16. Cases

#	grouping	value	Status
1	some grouping value 0	value 0	SUCCESS
2	some grouping value 0	value 1	SUCCESS
3	some grouping value 0	value 2	SUCCESS
4	some grouping value 0	value 3	SUCCESS
5	some grouping value 0	value 4	SUCCESS
6	some grouping value 0	value 5	FAILED
7	some grouping value 0	value 6	SUCCESS
8	some grouping value 0	value 7	SUCCESS
9	some grouping value 0	value 8	SUCCESS
10	some grouping value 0	value 9	SUCCESS
11	some grouping value 1	value 0	SUCCESS
12	some grouping value 1	value 1	SUCCESS
13	some grouping value 1	value 2	SUCCESS
14	some grouping value 1	value 3	SUCCESS
15	some grouping value 1	value 4	SUCCESS
16	some grouping value 1	value 5	FAILED
17	some grouping value 1	value 6	SUCCESS
18	some grouping value 1	value 7	SUCCESS
19	some grouping value 1	value 8	SUCCESS
20	some grouping value 1	value 9	SUCCESS
21	some grouping value 2	value 0	SUCCESS
22	some grouping value 2	value 1	SUCCESS
23	some grouping value 2	value 2	SUCCESS
24	some grouping value 2	value 3	SUCCESS
25	some grouping value 2	value 4	SUCCESS
26	some grouping value 2	value 5	FAILED

#	grouping	value	Status
27	some grouping value 2	value 6	SUCCESS
28	some grouping value 2	value 7	SUCCESS
29	some grouping value 2	value 8	SUCCESS
30	some grouping value 2	value 9	SUCCESS
31	some grouping value 3	value 0	SUCCESS
32	some grouping value 3	value 1	SUCCESS
33	some grouping value 3	value 2	SUCCESS
34	some grouping value 3	value 3	SUCCESS
35	some grouping value 3	value 4	SUCCESS
36	some grouping value 3	value 5	FAILED
37	some grouping value 3	value 6	SUCCESS
38	some grouping value 3	value 7	SUCCESS
39	some grouping value 3	value 8	SUCCESS
40	some grouping value 3	value 9	SUCCESS
41	some grouping value 4	value 0	SUCCESS
42	some grouping value 4	value 1	SUCCESS
43	some grouping value 4	value 2	SUCCESS
44	some grouping value 4	value 3	SUCCESS
45	some grouping value 4	value 4	SUCCESS
46	some grouping value 4	value 5	FAILED
47	some grouping value 4	value 6	SUCCESS
48	some grouping value 4	value 7	SUCCESS
49	some grouping value 4	value 8	SUCCESS
50	some grouping value 4	value 9	SUCCESS
51	some grouping value 5	value 0	SUCCESS
52	some grouping value 5	value 1	SUCCESS
53	some grouping value 5	value 2	SUCCESS
54	some grouping value 5	value 3	SUCCESS
55	some grouping value 5	value 4	SUCCESS
56	some grouping value 5	value 5	FAILED
57	some grouping value 5	value 6	SUCCESS
58	some grouping value 5	value 7	SUCCESS
59	some grouping value 5	value 8	SUCCESS

#	grouping	value	Status
60	some grouping value 5	value 9	SUCCESS
61	some grouping value 6	value 0	SUCCESS
62	some grouping value 6	value 1	SUCCESS
63	some grouping value 6	value 2	SUCCESS
64	some grouping value 6	value 3	SUCCESS
65	some grouping value 6	value 4	SUCCESS
66	some grouping value 6	value 5	FAILED
67	some grouping value 6	value 6	SUCCESS
68	some grouping value 6	value 7	SUCCESS
69	some grouping value 6	value 8	SUCCESS
70	some grouping value 6	value 9	SUCCESS
71	some grouping value 7	value 0	SUCCESS
72	some grouping value 7	value 1	SUCCESS
73	some grouping value 7	value 2	SUCCESS
74	some grouping value 7	value 3	SUCCESS
75	some grouping value 7	value 4	SUCCESS
76	some grouping value 7	value 5	FAILED
77	some grouping value 7	value 6	SUCCESS
78	some grouping value 7	value 7	SUCCESS
79	some grouping value 7	value 8	SUCCESS
80	some grouping value 7	value 9	SUCCESS
81	some grouping value 8	value 0	SUCCESS
82	some grouping value 8	value 1	SUCCESS
83	some grouping value 8	value 2	SUCCESS
84	some grouping value 8	value 3	SUCCESS
85	some grouping value 8	value 4	SUCCESS
86	some grouping value 8	value 5	FAILED
87	some grouping value 8	value 6	SUCCESS
88	some grouping value 8	value 7	SUCCESS
89	some grouping value 8	value 8	SUCCESS
90	some grouping value 8	value 9	SUCCESS
91	some grouping value 9	value 0	SUCCESS
92	some grouping value 9	value 1	SUCCESS

#	grouping	value	Status
93	some grouping value 9	value 2	SUCCESS
94	some grouping value 9	value 3	SUCCESS
95	some grouping value 9	value 4	SUCCESS
96	some grouping value 9	value 5	FAILED
97	some grouping value 9	value 6	SUCCESS
98	some grouping value 9	value 7	SUCCESS
99	some grouping value 9	value 8	SUCCESS
100	some grouping value 9	value 9	SUCCESS

A failing scenario for demonstration purposes

❗ (20ms)

Tags: *FailingOnPurpose*

Given a coffee machine ☑
An empty coffee machine that is already turned on.
The coffee price is set to 2 EUR.

And there are no more coffees left ☑

When I press the coffee button ☑

Then I should be served a coffee ❗

And steps following a failed step should be skipped 🚫
This step is still visible in the report, but was actually not executed. It is marked as skipped in the report.

▼ *org.opentest4j.AssertionFailedError:*

expected: true but was: false

```
java.base/jdk.internal.reflect.NativeConstructorAccessorImpl.newInstance0(Native
Method)
java.base/jdk.internal.reflect.NativeConstructorAccessorImpl.newInstance(NativeConst
ructorAccessorImpl.java:62)
java.base/jdk.internal.reflect.DelegatingConstructorAccessorImpl.newInstance(Delegat
ingConstructorAccessorImpl.java:45)
com.tngtech.jgiven.examples.coffeemachine.steps.ThenCoffee.I_should_be_served_a_coff
ee(ThenCoffee.java:30)
com.tngtech.jgiven.examples.coffeemachine.steps.ThenCoffee.I_should_be_served_a_coff
ee(ThenCoffee.java:58)
com.tngtech.jgiven.examples.coffeemachine.steps.ThenCoffee$ByteBuddy$SyWjwby8.I_shou
ld_be_served_a_coffee$accessor$l4LzqPjN(Unknown Source)
com.tngtech.jgiven.examples.coffeemachine.steps.ThenCoffee$ByteBuddy$SyWjwby8$auxili
ary$LFK0cHyV.call(Unknown Source)
```

```
com.tngtech.jgiven.examples.coffeemachine.steps.ThenCoffee$ByteBuddy$SyWjwby8.I_shou
ld_be_served_a_coffee(Unknown Source)
com.tngtech.jgiven.examples.coffeemachine.ServeCoffeeTest.a_failing_scenario_for_dem
onstration_purposes(ServeCoffeeTest.java:148)
java.base/jdk.internal.reflect.NativeMethodAccessorImpl.invoke0(Native Method)
java.base/jdk.internal.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorI
mpl.java:62)
java.base/jdk.internal.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodA
ccessorImpl.java:43)
org.junit.runners.model.FrameworkMethod$1.runReflectiveCall(FrameworkMethod.java:59)
org.junit.internal.runners.model.ReflectiveCallable.run(ReflectiveCallable.java:12)
org.junit.runners.model.FrameworkMethod.invokeExplosively(FrameworkMethod.java:56)
org.junit.internal.runners.statements.InvokeMethod.evaluate(InvokeMethod.java:17)
com.tngtech.jgiven.junit.JGivenMethodRule$1.evaluate(JGivenMethodRule.java:73)
org.junit.runners.ParentRunner$3.evaluate(ParentRunner.java:306)
org.junit.runners.BlockJUnit4ClassRunner$1.evaluate(BlockJUnit4ClassRunner.java:100)
org.junit.runners.ParentRunner.runLeaf(ParentRunner.java:366)
org.junit.runners.BlockJUnit4ClassRunner.runChild(BlockJUnit4ClassRunner.java:103)
org.junit.runners.BlockJUnit4ClassRunner.runChild(BlockJUnit4ClassRunner.java:63)
org.junit.runners.ParentRunner$4.run(ParentRunner.java:331)
org.junit.runners.ParentRunner$1.schedule(ParentRunner.java:79)
org.junit.runners.ParentRunner.runChildren(ParentRunner.java:329)
org.junit.runners.ParentRunner.access$100(ParentRunner.java:66)
org.junit.runners.ParentRunner$2.evaluate(ParentRunner.java:293)
org.junit.rules.TestWatcher$1.evaluate(TestWatcher.java:61)
org.junit.rules.RunRules.evaluate(RunRules.java:20)
org.junit.runners.ParentRunner$3.evaluate(ParentRunner.java:306)
org.junit.runners.ParentRunner.run(ParentRunner.java:413)
org.gradle.api.internal.tasks.testing.junit.JUnitTestClassExecutor.runTestClass(JUni
tTestClassExecutor.java:108)
org.gradle.api.internal.tasks.testing.junit.JUnitTestClassExecutor.execute(JUnitTest
ClassExecutor.java:58)
org.gradle.api.internal.tasks.testing.junit.JUnitTestClassExecutor.execute(JUnitTest
ClassExecutor.java:40)
org.gradle.api.internal.tasks.testing.junit.AbstractJUnitTestClassProcessor.processT
estClass(AbstractJUnitTestClassProcessor.java:60)
org.gradle.api.internal.tasks.testing.SuiteTestClassProcessor.processTestClass(Suite
TestClassProcessor.java:52)
java.base/jdk.internal.reflect.NativeMethodAccessorImpl.invoke0(Native Method)
java.base/jdk.internal.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorI
mpl.java:62)
java.base/jdk.internal.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodA
ccessorImpl.java:43)
org.gradle.internal.dispatch.ReflectionDispatch.dispatch(ReflectionDispatch.java:36)
org.gradle.internal.dispatch.ReflectionDispatch.dispatch(ReflectionDispatch.java:24)
org.gradle.internal.dispatch.ContextClassLoaderDispatch.dispatch(ContextClassLoaderD
ispatch.java:33)
org.gradle.internal.dispatch.ProxyDispatchAdapter$DispatchingInvocationHandler.invok
e(ProxyDispatchAdapter.java:94)
org.gradle.api.internal.tasks.testing.worker.TestWorker$2.run(TestWorker.java:176)
org.gradle.api.internal.tasks.testing.worker.TestWorker.executeAndMaintainThreadName
```

```
(TestWorker.java:129)
org.gradle.api.internal.tasks.testing.worker.TestWorker.execute(TestWorker.java:100)
org.gradle.api.internal.tasks.testing.worker.TestWorker.execute(TestWorker.java:60)
org.gradle.process.internal.worker.child.ActionExecutionWorker.execute(ActionExecuti
onWorker.java:56)
org.gradle.process.internal.worker.child.SystemApplicationClassLoaderWorker.call(Sys
temApplicationClassLoaderWorker.java:113)
org.gradle.process.internal.worker.child.SystemApplicationClassLoaderWorker.call(Sys
temApplicationClassLoaderWorker.java:65)
worker.org.gradle.process.internal.worker.GradleWorkerMain.run(GradleWorkerMain.java
:69)
worker.org.gradle.process.internal.worker.GradleWorkerMain.main(GradleWorkerMain.jav
a:74)
```

A scenario with a failing test case for demonstration purposes

❗ (5ms)

Tags: *FailingOnPurpose*

Case 1

withCoffees = true

Given a coffee machine
An empty coffee machine that is already turned on.
The coffee price is set to 2 EUR.

And there are *2* coffees left in the machine
The number of coffees in the machine is set to the given value.

When I insert *2* one euro coins

And I press the coffee button

Then I should be served a coffee

Case 2

withCoffees = false

Given a coffee machine ☑
An empty coffee machine that is already turned on.
The coffee price is set to 2 EUR.

When I insert *2* one euro coins ☑

And I press the coffee button ☑

Then I should be served a coffee ❗ (2ms)

▼ *org.opentest4j.AssertionFailedError:*

expected: true but was: false

```
java.base/jdk.internal.reflect.NativeConstructorAccessorImpl.newInstance0(Native
Method)
java.base/jdk.internal.reflect.NativeConstructorAccessorImpl.newInstance(NativeConst
ructorAccessorImpl.java:62)
java.base/jdk.internal.reflect.DelegatingConstructorAccessorImpl.newInstance(Delegat
ingConstructorAccessorImpl.java:45)
com.tngtech.jgiven.examples.coffeemachine.steps.ThenCoffee.I_should_be_served_a_coff
ee(ThenCoffee.java:30)
com.tngtech.jgiven.examples.coffeemachine.steps.ThenCoffee.I_should_be_served_a_coff
ee(ThenCoffee.java:58)
com.tngtech.jgiven.examples.coffeemachine.steps.ThenCoffee$ByteBuddy$SyWjwby8.I_shou
ld_be_served_a_coffee$accessor$l4LzqPjN(Unknown Source)
com.tngtech.jgiven.examples.coffeemachine.steps.ThenCoffee$ByteBuddy$SyWjwby8$auxili
ary$LFK0cHyV.call(Unknown Source)
com.tngtech.jgiven.examples.coffeemachine.steps.ThenCoffee$ByteBuddy$SyWjwby8.I_shou
ld_be_served_a_coffee(Unknown Source)
com.tngtech.jgiven.examples.coffeemachine.ServeCoffeeTest.a_scenario_with_a_failing_
test_case_for_demonstration_purposes(ServeCoffeeTest.java:167)
java.base/jdk.internal.reflect.NativeMethodAccessorImpl.invoke0(Native Method)
java.base/jdk.internal.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorI
mpl.java:62)
java.base/jdk.internal.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodA
ccessorImpl.java:43)
org.junit.runners.model.FrameworkMethod$1.runReflectiveCall(FrameworkMethod.java:59)
org.junit.internal.runners.model.ReflectiveCallable.run(ReflectiveCallable.java:12)
org.junit.runners.model.FrameworkMethod.invokeExplosively(FrameworkMethod.java:56)
com.tngtech.java.junit.dataprovider.DataProviderFrameworkMethod.invokeExplosively(Da
taProviderFrameworkMethod.java:76)
org.junit.internal.runners.statements.InvokeMethod.evaluate(InvokeMethod.java:17)
com.tngtech.jgiven.junit.JGivenMethodRule$1.evaluate(JGivenMethodRule.java:73)
org.junit.runners.ParentRunner$3.evaluate(ParentRunner.java:306)
org.junit.runners.BlockJUnit4ClassRunner$1.evaluate(BlockJUnit4ClassRunner.java:100)
org.junit.runners.ParentRunner.runLeaf(ParentRunner.java:366)
org.junit.runners.BlockJUnit4ClassRunner.runChild(BlockJUnit4ClassRunner.java:103)
org.junit.runners.BlockJUnit4ClassRunner.runChild(BlockJUnit4ClassRunner.java:63)
org.junit.runners.ParentRunner$4.run(ParentRunner.java:331)
org.junit.runners.ParentRunner$1.schedule(ParentRunner.java:79)
org.junit.runners.ParentRunner.runChildren(ParentRunner.java:329)
org.junit.runners.ParentRunner.access$100(ParentRunner.java:66)
org.junit.runners.ParentRunner$2.evaluate(ParentRunner.java:293)
org.junit.rules.TestWatcher$1.evaluate(TestWatcher.java:61)
org.junit.rules.RunRules.evaluate(RunRules.java:20)
org.junit.runners.ParentRunner$3.evaluate(ParentRunner.java:306)
org.junit.runners.ParentRunner.run(ParentRunner.java:413)
org.gradle.api.internal.tasks.testing.junit.JUnitTestClassExecutor.runTestClass(JUni
```

```
tTestClassExecutor.java:108)
org.gradle.api.internal.tasks.testing.junit.JUnitTestClassExecutor.execute(JUnitTest
ClassExecutor.java:58)
org.gradle.api.internal.tasks.testing.junit.JUnitTestClassExecutor.execute(JUnitTest
ClassExecutor.java:40)
org.gradle.api.internal.tasks.testing.junit.AbstractJUnitTestClassProcessor.processT
estClass(AbstractJUnitTestClassProcessor.java:60)
org.gradle.api.internal.tasks.testing.SuiteTestClassProcessor.processTestClass(Suite
TestClassProcessor.java:52)
java.base/jdk.internal.reflect.NativeMethodAccessorImpl.invoke0(Native Method)
java.base/jdk.internal.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorI
mpl.java:62)
java.base/jdk.internal.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodA
ccessorImpl.java:43)
org.gradle.internal.dispatch.ReflectionDispatch.dispatch(ReflectionDispatch.java:36)
org.gradle.internal.dispatch.ReflectionDispatch.dispatch(ReflectionDispatch.java:24)
org.gradle.internal.dispatch.ContextClassLoaderDispatch.dispatch(ContextClassLoaderD
ispatch.java:33)
org.gradle.internal.dispatch.ProxyDispatchAdapter$DispatchingInvocationHandler.invok
e(ProxyDispatchAdapter.java:94)
org.gradle.api.internal.tasks.testing.worker.TestWorker$2.run(TestWorker.java:176)
org.gradle.api.internal.tasks.testing.worker.TestWorker.executeAndMaintainThreadName
(TestWorker.java:129)
org.gradle.api.internal.tasks.testing.worker.TestWorker.execute(TestWorker.java:100)
org.gradle.api.internal.tasks.testing.worker.TestWorker.execute(TestWorker.java:60)
org.gradle.process.internal.worker.child.ActionExecutionWorker.execute(ActionExecuti
onWorker.java:56)
org.gradle.process.internal.worker.child.SystemApplicationClassLoaderWorker.call(Sys
temApplicationClassLoaderWorker.java:113)
org.gradle.process.internal.worker.child.SystemApplicationClassLoaderWorker.call(Sys
temApplicationClassLoaderWorker.java:65)
worker.org.gradle.process.internal.worker.GradleWorkerMain.run(GradleWorkerMain.java
:69)
worker.org.gradle.process.internal.worker.GradleWorkerMain.main(GradleWorkerMain.jav
a:74)
```

Long error messages should wrapped

❗

Tags: *FailingOnPurpose*

Given an exception with a very long message ❗

▼ *java.lang.RuntimeException: This is a very long exception message that should be wrapped at some point in the report and it is even longer than that*

```
com.tngtech.jgiven.examples.coffeemachine.steps.GivenCoffee.an_exception_with_a_very
_long_message(GivenCoffee.java:57)
com.tngtech.jgiven.examples.coffeemachine.steps.GivenCoffee$ByteBuddy$CawmqOAR.an_ex
```

```
ception_with_a_very_long_message$accessor$XXLbcv9O(Unknown Source)
com.tngtech.jgiven.examples.coffeemachine.steps.GivenCoffee$ByteBuddy$CawmqOAR$auxil
iary$2lU5k1qB.call(Unknown Source)
com.tngtech.jgiven.examples.coffeemachine.steps.GivenCoffee$ByteBuddy$CawmqOAR.an_ex
ception_with_a_very_long_message(Unknown Source)
com.tngtech.jgiven.examples.coffeemachine.ServeCoffeeTest.long_error_messages_should
_wrapped(ServeCoffeeTest.java:231)
java.base/jdk.internal.reflect.NativeMethodAccessorImpl.invoke0(Native Method)
java.base/jdk.internal.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorI
mpl.java:62)
java.base/jdk.internal.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodA
ccessorImpl.java:43)
org.junit.runners.model.FrameworkMethod$1.runReflectiveCall(FrameworkMethod.java:59)
org.junit.internal.runners.model.ReflectiveCallable.run(ReflectiveCallable.java:12)
org.junit.runners.model.FrameworkMethod.invokeExplosively(FrameworkMethod.java:56)
org.junit.internal.runners.statements.InvokeMethod.evaluate(InvokeMethod.java:17)
com.tngtech.jgiven.junit.JGivenMethodRule$1.evaluate(JGivenMethodRule.java:73)
org.junit.runners.ParentRunner$3.evaluate(ParentRunner.java:306)
org.junit.runners.BlockJUnit4ClassRunner$1.evaluate(BlockJUnit4ClassRunner.java:100)
org.junit.runners.ParentRunner.runLeaf(ParentRunner.java:366)
org.junit.runners.BlockJUnit4ClassRunner.runChild(BlockJUnit4ClassRunner.java:103)
org.junit.runners.BlockJUnit4ClassRunner.runChild(BlockJUnit4ClassRunner.java:63)
org.junit.runners.ParentRunner$4.run(ParentRunner.java:331)
org.junit.runners.ParentRunner$1.schedule(ParentRunner.java:79)
org.junit.runners.ParentRunner.runChildren(ParentRunner.java:329)
org.junit.runners.ParentRunner.access$100(ParentRunner.java:66)
org.junit.runners.ParentRunner$2.evaluate(ParentRunner.java:293)
org.junit.rules.TestWatcher$1.evaluate(TestWatcher.java:61)
org.junit.rules.RunRules.evaluate(RunRules.java:20)
org.junit.runners.ParentRunner$3.evaluate(ParentRunner.java:306)
org.junit.runners.ParentRunner.run(ParentRunner.java:413)
org.gradle.api.internal.tasks.testing.junit.JUnitTestClassExecutor.runTestClass(JUni
tTestClassExecutor.java:108)
org.gradle.api.internal.tasks.testing.junit.JUnitTestClassExecutor.execute(JUnitTest
ClassExecutor.java:58)
org.gradle.api.internal.tasks.testing.junit.JUnitTestClassExecutor.execute(JUnitTest
ClassExecutor.java:40)
org.gradle.api.internal.tasks.testing.junit.AbstractJUnitTestClassProcessor.processT
estClass(AbstractJUnitTestClassProcessor.java:60)
org.gradle.api.internal.tasks.testing.SuiteTestClassProcessor.processTestClass(Suite
TestClassProcessor.java:52)
java.base/jdk.internal.reflect.NativeMethodAccessorImpl.invoke0(Native Method)
java.base/jdk.internal.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorI
mpl.java:62)
java.base/jdk.internal.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodA
ccessorImpl.java:43)
org.gradle.internal.dispatch.ReflectionDispatch.dispatch(ReflectionDispatch.java:36)
org.gradle.internal.dispatch.ReflectionDispatch.dispatch(ReflectionDispatch.java:24)
org.gradle.internal.dispatch.ContextClassLoaderDispatch.dispatch(ContextClassLoaderD
ispatch.java:33)
org.gradle.internal.dispatch.ProxyDispatchAdapter$DispatchingInvocationHandler.invok
```

```
e(ProxyDispatchAdapter.java:94)
org.gradle.api.internal.tasks.testing.worker.TestWorker$2.run(TestWorker.java:176)
org.gradle.api.internal.tasks.testing.worker.TestWorker.executeAndMaintainThreadName
(TestWorker.java:129)
org.gradle.api.internal.tasks.testing.worker.TestWorker.execute(TestWorker.java:100)
org.gradle.api.internal.tasks.testing.worker.TestWorker.execute(TestWorker.java:60)
org.gradle.process.internal.worker.child.ActionExecutionWorker.execute(ActionExecuti
onWorker.java:56)
org.gradle.process.internal.worker.child.SystemApplicationClassLoaderWorker.call(Sys
temApplicationClassLoaderWorker.java:113)
org.gradle.process.internal.worker.child.SystemApplicationClassLoaderWorker.call(Sys
temApplicationClassLoaderWorker.java:65)
worker.org.gradle.process.internal.worker.GradleWorkerMain.run(GradleWorkerMain.java
:69)
worker.org.gradle.process.internal.worker.GradleWorkerMain.main(GradleWorkerMain.jav
a:74)
```

Should fail with unexpected runtime exception

(1s 8ms)

Tags: *FailingOnPurpose*

Then *should throw a runtime exception* (1s 0ms)

▼ *java.lang.InterruptedException: sleep interrupted*

```
java.base@11.0.16.1/java.lang.Thread.sleep(Native Method)
app//com.tngtech.jgiven.examples.coffeemachine.ServeCoffeeTest$1.apply(ServeCoffeeTe
st.java:209)
app//com.tngtech.jgiven.examples.coffeemachine.ServeCoffeeTest$1.apply(ServeCoffeeTe
st.java:205)
app//com.tngtech.jgiven.base.StageBase.$(StageBase.java:43)
app//com.tngtech.jgiven.examples.coffeemachine.steps.ThenCoffee$ByteBuddy$SyWjwby8.$
$accessor$l4LzqPjN(Unknown Source)
app//com.tngtech.jgiven.examples.coffeemachine.steps.ThenCoffee$ByteBuddy$SyWjwby8$a
uxiliary$RSo8W9ea.call(Unknown Source)
app//com.tngtech.jgiven.examples.coffeemachine.steps.ThenCoffee$ByteBuddy$SyWjwby8.$
(Unknown Source)
app//com.tngtech.jgiven.examples.coffeemachine.steps.ThenCoffee$ByteBuddy$SyWjwby8.$
(Unknown Source)
app//com.tngtech.jgiven.examples.coffeemachine.ServeCoffeeTest.shouldFailWithUnexpec
tedRuntimeException(ServeCoffeeTest.java:204)
java.base@11.0.16.1/jdk.internal.reflect.NativeMethodAccessorImpl.invoke0(Native
Method)
java.base@11.0.16.1/jdk.internal.reflect.NativeMethodAccessorImpl.invoke(NativeMetho
dAccessorImpl.java:62)
java.base@11.0.16.1/jdk.internal.reflect.DelegatingMethodAccessorImpl.invoke(Delegat
ingMethodAccessorImpl.java:43)
app//org.junit.runners.model.FrameworkMethod$1.runReflectiveCall(FrameworkMethod.jav
```

```
a:59)
app//org.junit.internal.runners.model.ReflectiveCallable.run(ReflectiveCallable.java
:12)
app//org.junit.runners.model.FrameworkMethod.invokeExplosively(FrameworkMethod.java:
56)
app//org.junit.internal.runners.statements.InvokeMethod.evaluate(InvokeMethod.java:1
7)
app//org.junit.internal.runners.statements.FailOnTimeout$CallableStatement.call(Fail
OnTimeout.java:299)
app//org.junit.internal.runners.statements.FailOnTimeout$CallableStatement.call(Fail
OnTimeout.java:293)
java.base@11.0.16.1/java.util.concurrent.FutureTask.run(FutureTask.java:264)
java.base@11.0.16.1/java.lang.Thread.run(Thread.java:829)
```

Pending Scenarios

There are 3 pending scenarios

Multiple cases can be pending

🚫 (1ms)

Tags: *Pending Annotation*

Given some state 🚫

When a <**actionCount**> action 🚫

Then some result 🚫

Table 17. Cases

#	actionCount	Status
1	1st	SCENARIO_PENDING
2	2nd	SCENARIO_PENDING

Scenarios that are pending can be annotated with the Pending annotation

🚫

Tags: *Pending Annotation*

Given some state 🚫

When some action 🚫

Then some result 🚫

Single steps can be annotated with Pending

🚫

Tags: *Pending Annotation*

Given some state ☑

When some pending action 🚫

Then some result ☑