

# CucumberJS Living Documentation

# Table of Contents

<b>Summary</b>	1
<b>Features</b>	3
<b>Asynchronous failing steps</b>	3
Scenario: see asynchronously failing scenarios	3
Scenario: see asynchronously failing scenarios with exception 🗨️	3
<b>Asynchronous pending steps</b>	4
Scenario: Pending step means the scenario is pending	4
<b>Asynchronous step definition callbacks</b>	5
Scenario: Execute feature with asynchronous step definition	5
<b>Attachments</b>	5
Scenario: Attach a buffer	5
Scenario: Attach a stream	8
Scenario: Attach from an around hook (pre scenario)	11
Scenario: Attach from an around hook (post scenario)	13
Scenario: Attach from a before hook	15
Scenario: Attach from an after hook	17
Scenario: Attach from a step definition	19
<b>Background</b>	21
Scenario: One scenario and a background	21
Scenario: Two scenarios and a background	21
<b>CoffeeScript support</b>	22
Scenario: CoffeeScript step definition 🗨️	23
<b>Command line interface</b>	23
Scenario: run a single feature	23
Scenario: run a single scenario within feature	24
Scenario: run a single feature without step definitions	25
Scenario: run feature with non-default step definitions file location specified (-r option)	26
Scenario: run feature with step definitions in required directory (-r option)	27
Scenario: display Cucumber version	28
Scenario: display help	29
Scenario: display help (short flag)	29
Scenario: run a single failing feature	29
Scenario: run a single failing feature with an empty hooks file	30
Scenario: run a single failing feature with an AfterFeatures hook	31
<b>Core feature elements execution</b>	33
Scenario: Simple flat steps	33
Scenario: Given, When, Then, And and But steps	33
Scenario: Step definition body is executed	34

Scenario: Steps accepting parameters .....	35
Scenario: Steps accepting a DocString parameter .....	36
<b>Data Tables</b> .....	38
Scenario: a data table can be read as a hash .....	38
<b>Environment Hooks</b> .....	38
Scenario: Tagged around hook with untagged scenario .....	38
Scenario: Hooks are steps .....	38
Scenario: Failing around hook (pre scenario) fails the scenario .....	41
Scenario: Failing around hook (pre scenario) fails the scenario .....	43
Scenario: Failing around hook (post scenario) fails the scenario .....	44
Scenario: Failing around hook (post scenario) fails the scenario .....	46
Scenario: Failing before hook fails the scenario .....	48
Scenario: Failing before hook fails the scenario .....	50
Scenario: Failing after hook fails the scenario .....	52
Scenario: Failing after hook fails the scenario .....	54
Scenario: Hooks still execute after a failure .....	56
Scenario: World is this in hooks .....	59
<b>JSON Formatter</b> .....	63
Scenario: output JSON for a feature with no scenarios .....	63
Scenario: output JSON for a feature with one undefined scenario .....	64
Scenario: output JSON for a feature with one scenario with one undefined step .....	65
Scenario: output JSON for a feature with one undefined step and subsequent defined steps which should be skipped .....	67
Scenario: output JSON for a feature with one scenario with one pending step .....	68
Scenario: output JSON for a feature with one scenario with failing step .....	70
Scenario: output JSON for a feature with one scenario with passing step .....	72
Scenario: output JSON for a scenario with a passing step followed by one that is pending and one that fails .....	73
Scenario: output JSON for a scenario with a pending step followed by one that passes and one that fails .....	75
Scenario: output JSON for one feature, one passing scenario, one failing scenario .....	77
Scenario: output JSON for multiple features .....	79
Scenario: output JSON for multiple features each with multiple scenarios .....	82
Scenario: output JSON for a feature with a background .....	87
Scenario: output JSON for a feature with a failing background .....	89
Scenario: output JSON for a feature with a DocString .....	90
Scenario: output JSON for background step with a DocString .....	92
Scenario: output JSON for a feature with tags .....	94
Scenario: output JSON for scenario with tags .....	97
Scenario: output JSON for a step with table .....	99
Scenario: output JSON for background with table .....	100

Scenario: output JSON for a feature with one scenario outline with no examples tables . . . .	102
Scenario: output JSON for a feature with one scenario outline with an examples table with n	103
rows	
Scenario: output JSON for a feature with one scenario outline with an examples table with t	104
rows	
Scenario: output JSON for a feature with one scenario outline with an examples table with t	106
rows and a background	
Scenario: output JSON for a feature with one scenario outline with two examples tables . . .	108
Scenario: output JSON for a feature with one scenario outline with an examples table with t	110
rows and before, after and around hooks	
<b>PogoScript support</b> . . . . .	114
Scenario: PogoScript step definition 🐞 . . . . .	114
<b>Pretty Formatter</b> . . . . .	114
Scenario: Output pretty text for a feature with no scenarios . . . . .	114
Scenario: Pretty formatter hides around, before and after hooks . . . . .	115
Scenario: Failing hook is reported as a failed step . . . . .	116
<b>Scenario Outlines and Examples</b> . . . . .	118
Scenario: Basic outline . . . . .	118
Scenario: Outline with table. . . . .	119
Scenario: Outline with doc string . . . . .	119
Scenario: Several outlines . . . . .	120
<b>Scenario Statuses</b> . . . . .	122
Scenario: Check scenario statuses . . . . .	122
Scenario: Success status . . . . .	125
Scenario: Failed status . . . . .	127
Scenario: Pending status . . . . .	129
Scenario: Undefined status . . . . .	131
Scenario: Simultaneous statuses . . . . .	133
<b>Step definition callbacks</b> . . . . .	136
Scenario: fail with single-parameter error (Node.js style) . . . . .	136
Scenario: succeed with promise 🐞 . . . . .	136
Scenario: fail with promise 🐞 . . . . .	137
Scenario: succeed synchronously 🐞 . . . . .	137
<b>Strict mode</b> . . . . .	137
Background 🐞 . . . . .	137
Scenario: Succeed scenario with implemented step with --strict . . . . .	138
Scenario: Fail scenario with undefined step with --strict . . . . .	138
Scenario: Fail Scenario with pending step with --strict . . . . .	139
Scenario: Fail scenario with undefined step with -S . . . . .	140
Scenario: Fail Scenario with pending step with -S . . . . .	141
<b>Summary Formatter</b> . . . . .	142

Scenario: Output summary for a feature with no scenarios .....	142
Scenario: Summary formatter hides around, before and after hooks.....	143
<b>User logs into the system</b> .....	144
Scenario: Unlogged user sees welcome page with login 🐞.....	144
Scenario: Minimal user sees welcome page with its username and logout 🐞.....	145
Scenario: Unlogged user logs in 🐞 .....	145
Scenario: Logged user logs out 🐞 .....	146
Scenario: Disconnected user sees welcome page and reconnect option 🐞 .....	146
Scenario: User sees 'connecting' while connecting 🐞 .....	147
<b>World constructor callback with object</b> .....	147
Scenario: scenario calling function on explicit world instance.....	148
<b>step definition snippets</b> .....	148
Scenario: escape regexp special characters 🐞.....	148
Scenario: step matching groups 🐞 .....	149
Scenario: multiple matching groups 🐞 .....	149
Scenario: outline steps with examples .....	150
<b>step definitions with string pattern</b> .....	150
Scenario: step definition with string-based pattern.....	150
Scenario: step definition with string-based pattern and parameters .....	151
Scenario: step definition with string-based pattern and multiple parameters 🐞.....	151

# Summary

Scenarios			Steps							Features: 22	
Passed	Failed	Total	Passed	Failed	Skipped	Pending	Undefined	Missing	Total	Duration	Status
Asynchronous failing steps											
1	1	2	5	0	2	0	1	0	8	019ms	failed
Asynchronous pending steps											
1	0	1	6	0	0	0	0	0	6	013ms	passed
Asynchronous step definition callbacks											
1	0	1	4	0	0	0	0	0	4	061ms	passed
Attachments											
7	0	7	35	0	0	0	0	0	35	01s711ms	passed
Background											
2	0	2	16	0	0	0	0	0	16	026ms	passed
CoffeeScript support											
0	1	1	0	0	3	0	1	0	4	000ms	failed
Command line interface											
11	0	11	50	0	0	0	0	0	50	02s464ms	passed
Core feature elements execution											
5	0	5	23	0	0	0	0	0	23	053ms	passed
Data Tables											
1	0	1	3	0	0	0	0	0	3	007ms	passed
Environment Hooks											
12	0	12	59	0	0	0	0	0	59	02s906ms	passed
JSON Formatter											
26	0	26	104	0	0	0	0	0	104	07s438ms	passed
PogoScript support											
0	1	1	0	0	3	0	1	0	4	000ms	failed
Pretty Formatter											
3	0	3	13	0	0	0	0	0	13	816ms	passed
Scenario Outlines and Examples											
4	0	4	31	0	0	0	0	0	31	050ms	passed
Scenario Statuses											

Scenarios			Steps							Features: 22	
6	0	6	30	0	0	0	0	0	30	01s 707ms	passed
Step definition callbacks											
1	3	4	4	0	6	0	6	0	16	010ms	failed
Strict mode											
5	1	6	23	0	0	0	0	1	24	01s 366ms	failed
Summary Formatter											
2	0	2	8	0	0	0	0	0	8	514ms	passed
User logs into the system											
0	6	6	0	0	0	0	29	0	29	000ms	failed
World constructor callback with object											
1	0	1	4	0	0	0	0	0	4	006ms	passed
step definition snippets											
1	3	4	9	0	0	0	4	0	13	020ms	failed
step definitions with string pattern											
2	1	3	13	0	0	0	1	0	14	012ms	failed
Totals											
92	17	109	440	0	14	0	43	1	498	19s 210ms	

# Features

## Asynchronous failing steps

**Scenario: see asynchronously failing scenarios**

*Given*

the following feature: 🍌 (000ms)

Feature: a feature

Scenario: a failing scenario

When I divide 10 by 0

Then the result is 9

*And*

the step "I divide 10 by 0" has a mapping asynchronously failing with the message "Divide by 0, uh?" 🍌 (000ms)

*When*

Cucumber runs the feature 🍌 (019ms)

*Then*

the scenario called "a failing scenario" is reported as failing 🍌 (000ms)

**Scenario: see asynchronously failing scenarios with exception 🍌**

tags: @untestable-on-self



*Given*

the following feature: 🍌 (000ms)

Feature: a feature

Scenario: a failing scenario

When I divide 10 by 0

Then the result is 9

*And*

the step "I divide 10 by 0" has a mapping asynchronously failing through an exception with the message "Divide by 0, uh?" 🍌 (000ms)

*When*

Cucumber runs the feature 🍌 (000ms)

*Then*

the scenario called "a failing scenario" is reported as failing 🍌 (000ms)

## Asynchronous pending steps

### Scenario: Pending step means the scenario is pending

*Given*

a scenario with: 🍌 (000ms)

When I add 4 and 5

Then the result is 9

*And*

the step "I add 4 and 5" has an asynchronous pending mapping 🍌 (000ms)

*And*

the step "the result is 9" has a passing mapping 🍌 (000ms)

*When*

Cucumber executes the scenario 🍌 (013ms)

*Then*

the scenario is pending 🍌 (000ms)

*And*

the step "the result is 9" is skipped 🍌 (000ms)

# Asynchronous step definition callbacks

In order to test asynchronous code  
As a dev  
I want step definitions to call back asynchronously

## Scenario: Execute feature with asynchronous step definition

*Given*

a step definition matching /^an asynchronous step passes\$/ calling back asynchronously after 50 milliseconds 🍌 (000ms)

*And*

a step definition matching /^a step passes\$/ 🍌 (000ms)

*When*

I run the following feature: 🍌 (060ms)

Feature: Asynchronous step definition body  
Scenario: Waiting for an asynchronous step to call back  
When an asynchronous step passes  
Then a step passes

*Then*

the feature should have run successfully 🍌 (000ms)

## Attachments

### Scenario: Attach a buffer

*Given*

a file named "features/a.feature" with: 🍌 (004ms)

Feature: some feature  
Scenario: I've declared one step and it is passing  
Given This step is passing

*And*

a file named "features/step\_definitions/cucumber\_steps.js" with: 🍌 (001ms)

```
var cucumberSteps = function() {  
  this.Given(/^This step is passing$/, function(callback) { callback(); });  
};  
module.exports = cucumberSteps;
```

*And*

a file named "features/support/hooks.js" with: 🍌 (001ms)

```
var hooks = function () {  
  this.Before(function(scenario, callback) {  
    scenario.attach(new Buffer([100, 97, 116, 97]), 'image/png');  
    callback();  
  });  
};  
  
module.exports = hooks;
```

*When*

I run `cucumber.js -f json` 🍌 (196ms)

*Then*

it outputs this json: 🍌 (002ms)

```
[
  {
    "id": "some-feature",
    "name": "some feature",
    "description": "",
    "line": 1,
    "keyword": "Feature",
    "uri": "<current-directory>/features/a.feature",
    "elements": [
      {
        "name": "I've declared one step and it is passing",
        "id": "some-feature;i've-declared-one-step-and-it-is-passing",
        "line": 3,
        "keyword": "Scenario",
        "description": "",
        "type": "scenario",
        "steps": [
          {
            "keyword": "Before ",
            "hidden": true,
            "result": {
              "duration": "<duration>",
              "status": "passed"
            },
            "match": {},
            "embeddings": [
              {
                "mime_type": "image/png",
                "data": "ZGF0YQ=="
              }
            ]
          },
          {
            "name": "This step is passing",
            "line": 4,
            "keyword": "Given ",
            "result": {
              "duration": "<duration>",
              "status": "passed"
            },
            "match": {}
          }
        ]
      }
    ]
  }
]
```

## Scenario: Attach a stream

*Given*

a file named "features/a.feature" with: 🍌 (003ms)

Feature: some feature

Scenario: I've declared one step and it is passing

Given This step is passing

*And*

a file named "features/step\_definitions/cucumber\_steps.js" with: 🍌 (001ms)

```
var cucumberSteps = function() {  
  this.Given(/^This step is passing$/, function(callback) { callback(); });  
};  
module.exports = cucumberSteps;
```

*And*

a file named "features/support/hooks.js" with: 🍌 (001ms)

```
var hooks = function () {  
  this.Before(function(scenario, callback) {  
    var Stream = require('stream');  
    var versionParts = /v(\d+)\.(\d+)\.(\d+)/.exec(process.version);  
    var major = parseInt(versionParts[0], 10);  
    var minor = parseInt(versionParts[1], 10);  
  
    if (major > 0 || minor >= 10) {  
      var stream = new Stream.Readable();  
      stream._read = function() {};  
      stream.push(new Buffer([100, 97, 116, 97]));  
      stream.push(null);  
  
      scenario.attach(stream, 'image/png', function(error) {  
        callback(error);  
      });  
    }  
    else {  
      scenario.attach(new Buffer([100, 97, 116, 97]), 'image/png');  
      callback();  
    }  
  });  
};  
  
module.exports = hooks;
```

*When*

I run `cucumber.js -f json` 🍌 (249ms)

*Then*

it outputs this json: 🍌 (000ms)

```
[
  {
    "id": "some-feature",
    "name": "some feature",
    "description": "",
    "line": 1,
    "keyword": "Feature",
    "uri": "<current-directory>/features/a.feature",
    "elements": [
      {
        "name": "I've declared one step and it is passing",
        "id": "some-feature;i've-declared-one-step-and-it-is-passing",
        "line": 3,
        "keyword": "Scenario",
        "description": "",
        "type": "scenario",
        "steps": [
          {
            "keyword": "Before ",
            "hidden": true,
            "result": {
              "duration": "<duration>",
              "status": "passed"
            },
            "match": {},
            "embeddings": [
              {
                "mime_type": "image/png",
                "data": "ZGF0YQ=="
              }
            ]
          },
          {
            "name": "This step is passing",
            "line": 4,
            "keyword": "Given ",
            "result": {
              "duration": "<duration>",
              "status": "passed"
            },
            "match": {}
          }
        ]
      }
    ]
  }
]
```

## Scenario: Attach from an around hook (pre scenario)

*Given*

a file named "features/a.feature" with: 🍌 (004ms)

Feature: some feature

Scenario: I've declared one step and it is passing

Given This step is passing

*And*

a file named "features/step\_definitions/cucumber\_steps.js" with: 🍌 (001ms)

```
var cucumberSteps = function() {  
  this.Given(/^This step is passing$/, function(callback) { callback(); });  
};  
module.exports = cucumberSteps;
```

*And*

a file named "features/support/hooks.js" with: 🍌 (001ms)

```
var hooks = function () {  
  this.Around(function(scenario, runScenario) {  
    scenario.attach("text");  
  
    runScenario(function(scenario, callback) {  
      callback();  
    });  
  });  
};  
  
module.exports = hooks;
```

*When*

I run `cucumber.js -f json` 🍌 (286ms)

*Then*

it outputs this json: 🍌 (000ms)

```
[  
  {  
    "id": "some-feature",  
    "name": "some feature",  
    "description": "",  
    "line": 1,
```



```

"keyword": "Feature",
"uri": "<current-directory>/features/a.feature",
"elements": [
  {
    "name": "I've declared one step and it is passing",
    "id": "some-feature;i've-declared-one-step-and-it-is-passing",
    "line": 3,
    "keyword": "Scenario",
    "description": "",
    "type": "scenario",
    "steps": [
      {
        "keyword": "Around ",
        "hidden": true,
        "result": {
          "duration": "<duration>",
          "status": "passed"
        },
        "match": {},
        "embeddings": [
          {
            "mime_type": "text/plain",
            "data": "dGV4dA=="
          }
        ]
      },
      {
        "name": "This step is passing",
        "line": 4,
        "keyword": "Given ",
        "result": {
          "duration": "<duration>",
          "status": "passed"
        },
        "match": {}
      },
      {
        "keyword": "Around ",
        "hidden": true,
        "result": {
          "duration": "<duration>",
          "status": "passed"
        },
        "match": {}
      }
    ]
  }
]
}
]
}
]

```

## Scenario: Attach from an around hook (post scenario)

*Given*

a file named "features/a.feature" with: 🍌 (004ms)

Feature: some feature

Scenario: I've declared one step and it is passing

Given This step is passing

*And*

a file named "features/step\_definitions/cucumber\_steps.js" with: 🍌 (000ms)

```
var cucumberSteps = function() {  
  this.Given(/^This step is passing$/, function(callback) { callback(); });  
};  
module.exports = cucumberSteps;
```

*And*

a file named "features/support/hooks.js" with: 🍌 (000ms)

```
var hooks = function () {  
  this.Around(function(scenario, runScenario) {  
    runScenario(function(callback) {  
      scenario.attach("text");  
      callback();  
    });  
  });  
};  
  
module.exports = hooks;
```

*When*

I run `cucumber.js -f json` 🍌 (258ms)

*Then*

it outputs this json: 🍌 (000ms)

```
[  
  {  
    "id": "some-feature",  
    "name": "some feature",  
    "description": "",  
    "line": 1,  
    "keyword": "Feature",
```

```

"uri": "<current-directory>/features/a.feature",
"elements": [
  {
    "name": "I've declared one step and it is passing",
    "id": "some-feature;i've-declared-one-step-and-it-is-passing",
    "line": 3,
    "keyword": "Scenario",
    "description": "",
    "type": "scenario",
    "steps": [
      {
        "keyword": "Around ",
        "hidden": true,
        "result": {
          "duration": "<duration>",
          "status": "passed"
        },
        "match": {}
      },
      {
        "name": "This step is passing",
        "line": 4,
        "keyword": "Given ",
        "result": {
          "duration": "<duration>",
          "status": "passed"
        },
        "match": {}
      },
      {
        "keyword": "Around ",
        "hidden": true,
        "result": {
          "duration": "<duration>",
          "status": "passed"
        },
        "match": {},
        "embeddings": [
          {
            "mime_type": "text/plain",
            "data": "dGV4dA=="
          }
        ]
      }
    ]
  }
]
]
}
]
]

```

## Scenario: Attach from a before hook

### Given

a file named "features/a.feature" with: 🍌 (003ms)

Feature: some feature

Scenario: I've declared one step and it is passing

Given This step is passing

### And

a file named "features/step\_definitions/cucumber\_steps.js" with: 🍌 (000ms)

```
var cucumberSteps = function() {  
  this.Given(/^This step is passing$/, function(callback) { callback(); });  
};  
module.exports = cucumberSteps;
```

### And

a file named "features/support/hooks.js" with: 🍌 (000ms)

```
var hooks = function () {  
  this.Before(function(scenario, callback) {  
    scenario.attach("text");  
    callback();  
  });  
};  
  
module.exports = hooks;
```

### When

I run `cucumber.js -f json` 🍌 (208ms)

### Then

it outputs this json: 🍌 (000ms)

```
[
  {
    "id": "some-feature",
    "name": "some feature",
    "description": "",
    "line": 1,
    "keyword": "Feature",
    "uri": "<current-directory>/features/a.feature",
    "elements": [
      {
        "name": "I've declared one step and it is passing",
        "id": "some-feature;i've-declared-one-step-and-it-is-passing",
        "line": 3,
        "keyword": "Scenario",
        "description": "",
        "type": "scenario",
        "steps": [
          {
            "keyword": "Before ",
            "hidden": true,
            "result": {
              "duration": "<duration>",
              "status": "passed"
            },
            "match": {},
            "embeddings": [
              {
                "mime_type": "text/plain",
                "data": "dGV4dA=="
              }
            ]
          },
          {
            "name": "This step is passing",
            "line": 4,
            "keyword": "Given ",
            "result": {
              "duration": "<duration>",
              "status": "passed"
            },
            "match": {}
          }
        ]
      }
    ]
  }
]
```

## Scenario: Attach from an after hook

### Given

a file named "features/a.feature" with: 🍌 (002ms)

Feature: some feature

Scenario: I've declared one step and it is passing

Given This step is passing

### And

a file named "features/step\_definitions/cucumber\_steps.js" with: 🍌 (000ms)

```
var cucumberSteps = function() {  
  this.Given(/^This step is passing$/, function(callback) { callback(); });  
};  
module.exports = cucumberSteps;
```

### And

a file named "features/support/hooks.js" with: 🍌 (000ms)

```
var hooks = function () {  
  this.After(function(scenario, callback) {  
    scenario.attach("text");  
    callback();  
  });  
};  
  
module.exports = hooks;
```

### When

I run `cucumber.js -f json` 🍌 (247ms)

### Then

it outputs this json: 🍌 (002ms)

```
[
  {
    "id": "some-feature",
    "name": "some feature",
    "description": "",
    "line": 1,
    "keyword": "Feature",
    "uri": "<current-directory>/features/a.feature",
    "elements": [
      {
        "name": "I've declared one step and it is passing",
        "id": "some-feature;i've-declared-one-step-and-it-is-passing",
        "line": 3,
        "keyword": "Scenario",
        "description": "",
        "type": "scenario",
        "steps": [
          {
            "name": "This step is passing",
            "line": 4,
            "keyword": "Given ",
            "result": {
              "duration": "<duration>",
              "status": "passed"
            },
            "match": {}
          },
          {
            "keyword": "After ",
            "hidden": true,
            "result": {
              "duration": "<duration>",
              "status": "passed"
            },
            "match": {},
            "embeddings": [
              {
                "mime_type": "text/plain",
                "data": "dGV4dA=="
              }
            ]
          }
        ]
      }
    ]
  }
]
```

## Scenario: Attach from a step definition

### Given

a file named "features/a.feature" with: 🍌 (004ms)

Feature: some feature

Scenario: I've declared one step and it is passing

Given This step is passing

### And

a file named "features/step\_definitions/cucumber\_steps.js" with: 🍌 (001ms)

```
var cucumberSteps = function() {  
  this.Given(/^This step is passing$/, function(callback) {  
    var world = this;  
    world.scenario.attach("text");  
    callback();  
  });  
};  
module.exports = cucumberSteps;
```

### And

a file named "features/support/hooks.js" with: 🍌 (001ms)

```
var hooks = function () {  
  this.Before(function(scenario, callback) {  
    var world = this;  
    world.scenario = scenario;  
    callback();  
  });  
};  
  
module.exports = hooks;
```

### When

I run `cucumber.js -f json` 🍌 (215ms)

### Then

it outputs this json: 🍌 (000ms)



```
[
  {
    "id": "some-feature",
    "name": "some feature",
    "description": "",
    "line": 1,
    "keyword": "Feature",
    "uri": "<current-directory>/features/a.feature",
    "elements": [
      {
        "name": "I've declared one step and it is passing",
        "id": "some-feature;i've-declared-one-step-and-it-is-passing",
        "line": 3,
        "keyword": "Scenario",
        "description": "",
        "type": "scenario",
        "steps": [
          {
            "keyword": "Before ",
            "hidden": true,
            "result": {
              "duration": "<duration>",
              "status": "passed"
            },
            "match": {}
          },
          {
            "name": "This step is passing",
            "line": 4,
            "keyword": "Given ",
            "result": {
              "duration": "<duration>",
              "status": "passed"
            },
            "match": {},
            "embeddings": [
              {
                "mime_type": "text/plain",
                "data": "dGV4dA=="
              }
            ]
          }
        ]
      }
    ]
  }
]
```

# Background

Background allows you to add some context to the scenarios in a single feature. A Background is much like a scenario containing a number of steps. The difference is when it is run. The background is run before each of your scenarios but after any of your Before Hooks.

## Scenario: One scenario and a background

*Given*

the following feature: 🍌 (000ms)

```
Feature: testing scenarios
  Background:
    Given a background step
```

```
  Scenario:
    When a scenario step
```

*And*

the step "a background step" has a passing mapping 🍌 (000ms)

*And*

the step "a scenario step" has a passing mapping 🍌 (000ms)

*When*

Cucumber runs the feature 🍌 (009ms)

*Then*

the feature passes 🍌 (000ms)

*And*

the step "a background step" passes 🍌 (000ms)

*And*

the step "a scenario step" passes 🍌 (000ms)

## Scenario: Two scenarios and a background

*Given*

the following feature: 🍌 (000ms)

Feature: testing scenarios

Background:

Given a background step

Scenario:

When a scenario step

Scenario:

When a second scenario step

*And*

the step "a background step" has a passing mapping 🍌 (000ms)

*And*

the step "a scenario step" has a passing mapping 🍌 (000ms)

*And*

the step "a second scenario step" has a passing mapping 🍌 (000ms)

*When*

Cucumber runs the feature 🍌 (014ms)

*Then*

the feature passes 🍌 (000ms)

*And*

the step "a background step" passes 🍌 (000ms)

*And*

the step "a scenario step" passes 🍌 (000ms)

*And*

the step "a second scenario step" passes 🍌 (000ms)

## CoffeeScript support

In order to use the JS dialect I'm most comfortable with

As a step definition implementor

I want to use CoffeeScript for writing step definitions

## Scenario: CoffeeScript step definition 🗨️

*Given*

a mapping written in CoffeeScript 🗨️ (000ms)

*When*

Cucumber executes a scenario using that mapping 🗨️ (000ms)

*Then*

the feature passes 🗨️ (000ms)

*And*

the mapping is run 🗨️ (000ms)

## Command line interface

In order to run cucumber in different contexts

As a person who wants to run features

I want to run Cucumber on the command line

## Scenario: run a single feature

*Given*

a file named "features/a.feature" with: 🍌 (003ms)

```
Feature: some feature
  Scenario:
    When a step is passing
```

*And*

a file named "features/step\_definitions/cucumber\_steps.js" with: 🍌 (000ms)

```
var cucumberSteps = function() {
  this.When(/^a step is passing$/, function(callback) { callback(); });
};
module.exports = cucumberSteps;
```

*When*

I run `cucumber.js -f progress features/a.feature` 🍌 (297ms)

*Then*

it outputs this text: 🍌 (000ms)

```
.

1 scenario (1 passed)
1 step (1 passed)
```

*And*

the exit status should be 0 🍌 (000ms)

## Scenario: run a single scenario within feature

*Given*

a file named "features/a.feature" with: 🍌 (003ms)

Feature: some feature

Scenario: first scenario

When a step is passing

Scenario: second scenario

When a step does not exist

*And*

a file named "features/step\_definitions/cucumber\_steps.js" with: 🍌 (000ms)

```
var cucumberSteps = function() {  
  this.When(/^a step is passing$/, function(callback) { callback(); });  
};  
module.exports = cucumberSteps;
```

*When*

I run `cucumber.js -f progress features/a.feature:2` 🍌 (296ms)

*Then*

it outputs this text: 🍌 (000ms)

.

1 scenario (1 passed)

1 step (1 passed)

*And*

the exit status should be 0 🍌 (000ms)

## Scenario: run a single feature without step definitions

*Given*

a file named "features/a.feature" with: 🍌 (001ms)

Feature: some feature

Scenario:

When a step is undefined

*When*

I run `cucumber.js -f progress features/a.feature` 🍌 (189ms)

*Then*

it outputs this text: 🍌 (000ms)

U

1 scenario (1 undefined)

1 step (1 undefined)

You can implement step definitions for undefined steps with these snippets:

```
this.When(/^a step is undefined$/, function (callback) {  
  // Write code here that turns the phrase above into concrete actions  
  callback.pending();  
});
```

*And*

the exit status should be 0 🍌 (000ms)

**Scenario: run feature with non-default step definitions file location specified (-r option)**

*Given*

a file named "features/a.feature" with: 🍌 (002ms)

```
Feature: some feature
  Scenario:
    When a step is passing
```

*And*

a file named "step\_definitions/cucumber\_steps.js" with: 🍌 (000ms)

```
var cucumberSteps = function() {
  this.When(/^a step is passing$/, function(callback) { callback(); });
};
module.exports = cucumberSteps;
```

*When*

I run `cucumber.js -f progress features/a.feature -r step_definitions/cucumber_steps.js`  
🍌 (196ms)

*Then*

it outputs this text: 🍌 (000ms)

```
.

1 scenario (1 passed)
1 step (1 passed)
```

*And*

the exit status should be 0 🍌 (000ms)

**Scenario: run feature with step definitions in required directory (-r option)**



*Given*

a file named "features/a.feature" with: 🍌 (003ms)

```
Feature: some feature
  Scenario:
    When a step is passing
```

*And*

a file named "step\_definitions/cucumber\_steps.js" with: 🍌 (000ms)

```
var cucumberSteps = function() {
  this.When(/^a step is passing$/, function(callback) { callback(); });
};
module.exports = cucumberSteps;
```

*When*

I run `cucumber.js -f progress features/a.feature -r step_definitions` 🍌 (285ms)

*Then*

it outputs this text: 🍌 (000ms)

```
.

1 scenario (1 passed)
1 step (1 passed)
```

*And*

the exit status should be 0 🍌 (000ms)

## Scenario: display Cucumber version

*When*

I run `cucumber.js --version` 🍌 (102ms)

*Then*

I see the version of Cucumber 🍌 (000ms)

*And*

the exit status should be 0 🍌 (000ms)

## Scenario: display help

*When*

I run `cucumber.js --help` 🍌 (097ms)

*Then*

I see the help of Cucumber 🍌 (000ms)

*And*

the exit status should be 0 🍌 (000ms)

## Scenario: display help (short flag)

*When*

I run `cucumber.js -h` 🍌 (196ms)

*Then*

I see the help of Cucumber 🍌 (000ms)

*And*

the exit status should be 0 🍌 (000ms)

## Scenario: run a single failing feature

*Given*

a file named "features/a.feature" with: 🍌 (003ms)

```
Feature: some feature
  Scenario:
    When a step is failing
```

*And*

a file named "features/step\_definitions/cucumber\_steps.js" with: 🍌 (000ms)

```
var cucumberSteps = function() {
  this.When(/^a step is failing$/, function(callback) { callback("forced error");
});
};
module.exports = cucumberSteps;
```

*When*

I run `cucumber.js -f progress features/a.feature` 🍌 (296ms)

*Then*

it outputs this text: 🍌 (000ms)

```
F

(::) failed steps (::)

forced error

Failing scenarios:
<current-directory>/features/a.feature:2 # Scenario:

1 scenario (1 failed)
1 step (1 failed)
```

*And*

the exit status should be 1 🍌 (000ms)

**Scenario: run a single failing feature with an empty hooks file**

*Given*

a file named "features/a.feature" with: 🍌 (002ms)

```
Feature: some feature
  Scenario:
    When a step is failing
```

*And*

a file named "features/step\_definitions/cucumber\_steps.js" with: 🍌 (001ms)

```
var cucumberSteps = function() {
  this.When(/^a step is failing$/, function(callback) { callback("forced error");
});
};
module.exports = cucumberSteps;
```

*And*

a file named "features/support/hooks.js" with: 🍌 (001ms)

*When*

I run `cucumber.js -f progress features/a.feature` 🍌 (199ms)

*Then*

it outputs this text: 🍌 (000ms)

```
F

(::) failed steps (::)

forced error

Failing scenarios:
<current-directory>/features/a.feature:2 # Scenario:

1 scenario (1 failed)
1 step (1 failed)
```

*And*

the exit status should be 1 🍌 (000ms)

## Scenario: run a single failing feature with an AfterFeatures hook

*Given*

a file named "features/a.feature" with: 🍌 (004ms)

```
Feature: some feature
  Scenario:
    When a step is failing
```

*And*

a file named "features/step\_definitions/cucumber\_steps.js" with: 🍌 (000ms)

```
var cucumberSteps = function() {
  this.When(/^a step is failing$/, function(callback) { callback("forced error");
});
};
module.exports = cucumberSteps;
```

*And*

a file named "features/support/hooks.js" with: 🍌 (000ms)

```
var hooks = function() {
  this.registerHandler('AfterFeatures', function (event, callback) {
    callback();
  });
};
module.exports = hooks;
```

*When*

I run `cucumber.js -f progress features/a.feature` 🍌 (269ms)

*Then*

it outputs this text: 🍌 (000ms)

```
F

(::) failed steps (::)

forced error

Failing scenarios:
<current-directory>/features/a.feature:2 # Scenario:

1 scenario (1 failed)
1 step (1 failed)
```

*And*

the exit status should be 1 🍌 (000ms)

# Core feature elements execution

In order to have automated acceptance tests  
As a developer  
I want Cucumber to run core feature elements

## Scenario: Simple flat steps

*Given*

a step definition matching /^a step passes\$/ 🍌 (000ms)

*When*

I run the following feature: 🍌 (005ms)

```
Feature: Simple flat steps
  In order to execute features
  As cucumber
  I want to run features successfully

  Scenario: Simple flat step
    Given a step passes
    When a step passes
    Then a step passes
```

*Then*

the feature should have run successfully 🍌 (000ms)

## Scenario: Given, When, Then, And and But steps

*Given*

a "Given" step definition matching /^a "Given" step passes\$/ 🍷 (000ms)

*And*

a "When" step definition matching /^a "When" step passes\$/ 🍷 (000ms)

*And*

a "Then" step definition matching /^a "Then" step passes\$/ 🍷 (000ms)

*When*

I run the following feature: 🍷 (011ms)

Feature: Given, When, Then, And and But step execution

Scenario: All kinds of steps

Given a "Given" step passes

When a "When" step passes

Then a "Then" step passes

Scenario: All kinds of steps with And's and But's

Given a "Given" step passes

And a "Given" step passes

But a "Given" step passes

When a "When" step passes

And a "When" step passes

But a "When" step passes

Then a "Then" step passes

And a "Then" step passes

But a "Then" step passes

*Then*

the feature should have run successfully 🍷 (000ms)

## Scenario: Step definition body is executed

*Given*

a step definition matching /^I call a watched step\$/ counting its calls 🍇 (000ms)

*And*

a step definition matching /^the watched step should have been called (\d+) times?\$/  
checking the number of step calls 🍇 (000ms)

*When*

I run the following feature: 🍇 (017ms)

Feature: Step definition body execution

Scenario: Step definition body is executed once

When I call a watched step

Then the watched step should have been called 1 time

Scenario: Step definition body is executed several times

When I call a watched step

And I call a watched step

And I call a watched step

Then the watched step should have been called 3 times

*Then*

the feature should have run successfully 🍇 (000ms)

## Scenario: Steps accepting parameters



*Given*

a step definition matching /^I call a step with "(.\*)"\$/ recording its parameters 🍌 (000ms)

*And*

a step definition matching /^I call a step with "(.)", "(.)" and "(.\*)"\$/ recording its parameters 🍌 (000ms)

*And*

a step definition matching /^the (\d+)(?:st|nd|rd) received parameter should be "(.\*)"\$/ checking a recorded parameter 🍌 (000ms)

*When*

I run the following feature: 🍌 (006ms)

Feature: Steps receiving parameters

Scenario: Single-parameter step

When I call a step with "a parameter"

Then the 1st received parameter should be "a parameter"

Scenario: Three-parameter step

When I call a step with "one", "two" and "three"

Then the 1st received parameter should be "one"

And the 2nd received parameter should be "two"

And the 3rd received parameter should be "three"

*Then*

the feature should have run successfully 🍌 (000ms)

## Scenario: Steps accepting a DocString parameter

*Given*

a step definition matching /^I call a step with the following text:\$/ recording its parameters 🍌 (000ms)

*And*

a step definition matching /^I call a step with "(.\*)" and the following text:\$/ recording its parameters 🍌 (000ms)

*And*

a step definition matching /^the (\d+)(?:st|nd) received parameter should be "(.\*)"\$/ checking a recorded parameter 🍌 (000ms)

*And*

a step definition matching /^the (\d+)(?:nd) received parameter should be:\$/ checking a recorded parameter 🍌 (000ms)

## When

I run the following feature: 🍌 (010ms)

Feature: Steps receiving a DocString parameter

Scenario: One-liner DocString parameter

When I call a step with the following text:

"""

The cucumber (*Cucumis sativus*) is a widely cultivated plant in the gourd family Cucurbitaceae.

"""

Then the 1st received parameter should be "The cucumber (*Cucumis sativus*) is a widely cultivated plant in the gourd family Cucurbitaceae."

Scenario: Matching group and one-liner DocString

When I call a step with "Cucumber" and the following text:

"""

The cucumber (*Cucumis sativus*) is a widely cultivated plant in the gourd family Cucurbitaceae.

"""

Then the 1st received parameter should be "Cucumber"

And the 2nd received parameter should be "The cucumber (*Cucumis sativus*) is a widely cultivated plant in the gourd family Cucurbitaceae."

Scenario: Matching group and multiline DocString

When I call a step with "Cucumber" and the following text:

"""

cu·cum·ber |'kyoō,kəmbər|  
noun

1. a long, green-skinned fruit with watery flesh, usually eaten raw in salads or pickled.

2. the climbing plant of the gourd family that yields this fruit, native to the Chinese Himalayan region. It is widely cultivated but very rare in the wild. • *Cucumis sativus*, family Cucurbitaceae.

"""

Then the 1st received parameter should be "Cucumber"

And the 2nd received parameter should be:

"""

cu·cum·ber |'kyoō,kəmbər|  
noun

1. a long, green-skinned fruit with watery flesh, usually eaten raw in salads or pickled.

2. the climbing plant of the gourd family that yields this fruit, native to the Chinese Himalayan region. It is widely cultivated but very rare in the wild. • *Cucumis sativus*, family Cucurbitaceae.

"""

## Then

the feature should have run successfully 🍌 (000ms)

# Data Tables

## Scenario: a data table can be read as a hash

*Given*

the following data table in a step: 🍌 (000ms)

Cucumber	Cucumis sativus	
Burr Gherkin	Cucumis anguria	

*When*

the data table is passed to a step mapping that converts it to a hash 🍌 (006ms)

*Then*

the data table is converted to the following: 🍌 (000ms)

```
{ "Cucumber": "Cucumis sativus", "Burr Gherkin": "Cucumis anguria" }
```

# Environment Hooks

## Scenario: Tagged around hook with untagged scenario

*Given*

an around hook tagged with "@foo" 🍌 (000ms)

*When*

Cucumber executes a scenario with no tags 🍌 (004ms)

*Then*

the hook is not fired 🍌 (000ms)

## Scenario: Hooks are steps

*Given*

a file named "features/a.feature" with: 🍌 (002ms)

Feature: some feature

Scenario: I've declared one step and it is passing  
Given This step is passing

*And*

a file named "features/step\_definitions/cucumber\_steps.js" with: 🍌 (000ms)

```
var cucumberSteps = function() {
  this.Given(/^This step is passing$/, function(callback) { callback(); });
};
module.exports = cucumberSteps;
```

*And*

a file named "features/support/hooks.js" with: 🍌 (000ms)

```
var hooks = function () {
  this.Before(function(callback) {
    callback();
  });

  this.After(function(callback) {
    callback();
  });

  this.Around(function(runScenario) {
    runScenario(function(callback) {
      callback();
    });
  });
};

module.exports = hooks;
```

*When*

I run `cucumber.js -f json` 🍌 (301ms)

*Then*

it outputs this json: 🍌 (000ms)

```
[
  {
    "id": "some-feature",
    "name": "some feature",
    "description": "",
    "line": 1,
    "keyword": "Feature",
    "uri": "<current-directory>/features/a.feature",
    "elements": [
      {
        "name": "I've declared one step and it is passing",
        "id": "some-feature;i've-declared-one-step-and-it-is-passing",
```

```

"line": 3,
"keyword": "Scenario",
"description": "",
"type": "scenario",
"steps": [
  {
    "keyword": "Around ",
    "hidden": true,
    "result": {
      "duration": "<duration>",
      "status": "passed"
    },
    "match": {}
  },
  {
    "keyword": "Before ",
    "hidden": true,
    "result": {
      "duration": "<duration>",
      "status": "passed"
    },
    "match": {}
  },
  {
    "name": "This step is passing",
    "line": 4,
    "keyword": "Given ",
    "result": {
      "duration": "<duration>",
      "status": "passed"
    },
    "match": {}
  },
  {
    "keyword": "After ",
    "hidden": true,
    "result": {
      "duration": "<duration>",
      "status": "passed"
    },
    "match": {}
  },
  {
    "keyword": "Around ",
    "hidden": true,
    "result": {
      "duration": "<duration>",
      "status": "passed"
    },
    "match": {}
  }
]

```

```

    ]
  }
]
}
]

```

## Scenario: Failing around hook (pre scenario) fails the scenario

*Given*

a file named "features/a.feature" with: 🍌 (005ms)

Feature: some feature

Scenario: I've declared one step and it is passing

Given This step is passing

*And*

a file named "features/step\_definitions/cucumber\_steps.js" with: 🍌 (000ms)

```

var cucumberSteps = function() {
  this.Given(/^This step is passing$/, function(callback) { callback(); });
};
module.exports = cucumberSteps;

```

*And*

a file named "features/support/hooks.js" with: 🍌 (001ms)

```

var hooks = function () {
  this.Around(function(runScenario) {
    runScenario('Fail', function(callback) { callback(); });
  });
};

module.exports = hooks;

```

*When*

I run `cucumber.js -f json` 🍌 (302ms)

*Then*

it outputs this json: 🍌 (000ms)

```

[
  {

```

```

    "id": "some-feature",
    "name": "some feature",
    "description": "",
    "line": 1,
    "keyword": "Feature",
    "uri": "<current-directory>/features/a.feature",
    "elements": [
      {
        "name": "I've declared one step and it is passing",
        "id": "some-feature;i've-declared-one-step-and-it-is-passing",
        "line": 3,
        "keyword": "Scenario",
        "description": "",
        "type": "scenario",
        "steps": [
          {
            "keyword": "Around ",
            "hidden": true,
            "result": {
              "error_message": "<error-message>",
              "duration": "<duration>",
              "status": "failed"
            },
            "match": {}
          },
          {
            "name": "This step is passing",
            "line": 4,
            "keyword": "Given ",
            "result": {
              "status": "skipped"
            },
            "match": {}
          },
          {
            "keyword": "Around ",
            "hidden": true,
            "result": {
              "duration": "<duration>",
              "status": "passed"
            },
            "match": {}
          }
        ]
      }
    ]
  }
]

```

## Scenario: Failing around hook (pre scenario) fails the scenario

### Given

a file named "features/a.feature" with: 🍌 (005ms)

Feature: some feature

Scenario: I've declared one step and it is passing

Given This step is passing

### And

a file named "features/step\_definitions/cucumber\_steps.js" with: 🍌 (001ms)

```
var cucumberSteps = function() {  
  this.Given(/^This step is passing$/, function(callback) { callback(); });  
};  
module.exports = cucumberSteps;
```

### And

a file named "features/support/hooks.js" with: 🍌 (001ms)

```
var hooks = function () {  
  this.Around(function(runScenario) {  
    runScenario.fail();  
  });  
};  
  
module.exports = hooks;
```

### When

I run `cucumber.js -f json` 🍌 (300ms)

### Then

it outputs this json: 🍌 (000ms)

```
[  
  {  
    "id": "some-feature",  
    "name": "some feature",  
    "description": "",  
    "line": 1,  
    "keyword": "Feature",  
    "uri": "<current-directory>/features/a.feature",  
    "elements": [  
      {
```



```

"name": "I've declared one step and it is passing",
"id": "some-feature;i've-declared-one-step-and-it-is-passing",
"line": 3,
"keyword": "Scenario",
"description": "",
"type": "scenario",
"steps": [
  {
    "keyword": "Around ",
    "hidden": true,
    "result": {
      "error_message": "<error-message>",
      "duration": "<duration>",
      "status": "failed"
    },
    "match": {}
  },
  {
    "name": "This step is passing",
    "line": 4,
    "keyword": "Given ",
    "result": {
      "status": "skipped"
    },
    "match": {}
  },
  {
    "keyword": "Around ",
    "hidden": true,
    "result": {
      "duration": "<duration>",
      "status": "passed"
    },
    "match": {}
  }
]
}
]
}
]

```

## Scenario: Failing around hook (post scenario) fails the scenario

*Given*

a file named "features/a.feature" with: 🍌 (005ms)

Feature: some feature

Scenario: I've declared one step and it is passing  
Given This step is passing

*And*

a file named "features/step\_definitions/cucumber\_steps.js" with: 🍌 (001ms)

```
var cucumberSteps = function() {  
  this.Given(/^This step is passing$/, function(callback) { callback(); });  
};  
module.exports = cucumberSteps;
```

*And*

a file named "features/support/hooks.js" with: 🍌 (000ms)

```
var hooks = function () {  
  this.Around(function(runScenario) {  
    // no-op  
  
    runScenario(function(callback) {  
      callback('Fail');  
    });  
  });  
};  
  
module.exports = hooks;
```

*When*

I run `cucumber.js -f json` 🍌 (240ms)

*Then*

it outputs this json: 🍌 (000ms)

```
[  
  {  
    "id": "some-feature",  
    "name": "some feature",  
    "description": "",  
    "line": 1,  
    "keyword": "Feature",  
    "uri": "<current-directory>/features/a.feature",  
    "elements": [  
      {  
        "name": "I've declared one step and it is passing",  
        "id": "some-feature;i've-declared-one-step-and-it-is-passing",
```

```

"line": 3,
"keyword": "Scenario",
"description": "",
"type": "scenario",
"steps": [
  {
    "keyword": "Around ",
    "hidden": true,
    "result": {
      "duration": "<duration>",
      "status": "passed"
    },
    "match": {}
  },
  {
    "name": "This step is passing",
    "line": 4,
    "keyword": "Given ",
    "result": {
      "duration": "<duration>",
      "status": "passed"
    },
    "match": {}
  },
  {
    "keyword": "Around ",
    "hidden": true,
    "result": {
      "error_message": "<error-message>",
      "duration": "<duration>",
      "status": "failed"
    },
    "match": {}
  }
]
}
]

```

## Scenario: Failing around hook (post scenario) fails the scenario

*Given*

a file named "features/a.feature" with: 🍌 (005ms)

Feature: some feature

Scenario: I've declared one step and it is passing  
Given This step is passing

*And*

a file named "features/step\_definitions/cucumber\_steps.js" with: 🍌 (000ms)

```
var cucumberSteps = function() {  
  this.Given(/^This step is passing$/, function(callback) { callback(); });  
};  
module.exports = cucumberSteps;
```

*And*

a file named "features/support/hooks.js" with: 🍌 (000ms)

```
var hooks = function () {  
  this.Around(function(runScenario) {  
    // no-op  
  
    runScenario(function(callback) {  
      callback.fail();  
    });  
  });  
};  
  
module.exports = hooks;
```

*When*

I run `cucumber.js -f json` 🍌 (249ms)

*Then*

it outputs this json: 🍌 (003ms)

```
[  
  {  
    "id": "some-feature",  
    "name": "some feature",  
    "description": "",  
    "line": 1,  
    "keyword": "Feature",  
    "uri": "<current-directory>/features/a.feature",  
    "elements": [  
      {  
        "name": "I've declared one step and it is passing",  
        "id": "some-feature;i've-declared-one-step-and-it-is-passing",
```

```

"line": 3,
"keyword": "Scenario",
"description": "",
"type": "scenario",
"steps": [
  {
    "keyword": "Around ",
    "hidden": true,
    "result": {
      "duration": "<duration>",
      "status": "passed"
    },
    "match": {}
  },
  {
    "name": "This step is passing",
    "line": 4,
    "keyword": "Given ",
    "result": {
      "duration": "<duration>",
      "status": "passed"
    },
    "match": {}
  },
  {
    "keyword": "Around ",
    "hidden": true,
    "result": {
      "error_message": "<error-message>",
      "duration": "<duration>",
      "status": "failed"
    },
    "match": {}
  }
]
}
]

```

## Scenario: Failing before hook fails the scenario

*Given*

a file named "features/a.feature" with: 🍌 (005ms)

Feature: some feature

Scenario: I've declared one step and it is passing  
Given This step is passing

*And*

a file named "features/step\_definitions/cucumber\_steps.js" with: 🍌 (000ms)

```
var cucumberSteps = function() {  
  this.Given(/^This step is passing$/, function(callback) { callback(); });  
};  
module.exports = cucumberSteps;
```

*And*

a file named "features/support/hooks.js" with: 🍌 (001ms)

```
var hooks = function () {  
  this.Before(function(callback) {  
    callback('Fail');  
  });  
};  
  
module.exports = hooks;
```

*When*

I run `cucumber.js -f json` 🍌 (236ms)

*Then*

it outputs this json: 🍌 (000ms)

```
[
  {
    "id": "some-feature",
    "name": "some feature",
    "description": "",
    "line": 1,
    "keyword": "Feature",
    "uri": "<current-directory>/features/a.feature",
    "elements": [
      {
        "name": "I've declared one step and it is passing",
        "id": "some-feature;i've-declared-one-step-and-it-is-passing",
        "line": 3,
        "keyword": "Scenario",
        "description": "",
        "type": "scenario",
        "steps": [
          {
            "keyword": "Before ",
            "hidden": true,
            "result": {
              "error_message": "<error-message>",
              "duration": "<duration>",
              "status": "failed"
            },
            "match": {}
          },
          {
            "name": "This step is passing",
            "line": 4,
            "keyword": "Given ",
            "result": {
              "status": "skipped"
            },
            "match": {}
          }
        ]
      }
    ]
  }
]
```

## Scenario: Failing before hook fails the scenario

### Given

a file named "features/a.feature" with: 🍌 (005ms)

Feature: some feature

Scenario: I've declared one step and it is passing  
Given This step is passing

*And*

a file named "features/step\_definitions/cucumber\_steps.js" with: 🍌 (001ms)

```
var cucumberSteps = function() {  
  this.Given(/^This step is passing$/, function(callback) { callback(); });  
};  
module.exports = cucumberSteps;
```

*And*

a file named "features/support/hooks.js" with: 🍌 (001ms)

```
var hooks = function () {  
  this.Before(function(callback) {  
    callback.fail();  
  });  
};  
  
module.exports = hooks;
```

*When*

I run `cucumber.js -f json` 🍌 (267ms)

*Then*

it outputs this json: 🍌 (000ms)



```
[
  {
    "id": "some-feature",
    "name": "some feature",
    "description": "",
    "line": 1,
    "keyword": "Feature",
    "uri": "<current-directory>/features/a.feature",
    "elements": [
      {
        "name": "I've declared one step and it is passing",
        "id": "some-feature;i've-declared-one-step-and-it-is-passing",
        "line": 3,
        "keyword": "Scenario",
        "description": "",
        "type": "scenario",
        "steps": [
          {
            "keyword": "Before ",
            "hidden": true,
            "result": {
              "error_message": "<error-message>",
              "duration": "<duration>",
              "status": "failed"
            },
            "match": {}
          },
          {
            "name": "This step is passing",
            "line": 4,
            "keyword": "Given ",
            "result": {
              "status": "skipped"
            },
            "match": {}
          }
        ]
      }
    ]
  }
]
```

## Scenario: Failing after hook fails the scenario

### Given

a file named "features/a.feature" with: 🍌 (005ms)

Feature: some feature

Scenario: I've declared one step and it is passing  
Given This step is passing

*And*

a file named "features/step\_definitions/cucumber\_steps.js" with: 🍌 (001ms)

```
var cucumberSteps = function() {  
  this.Given(/^This step is passing$/, function(callback) { callback(); });  
};  
module.exports = cucumberSteps;
```

*And*

a file named "features/support/hooks.js" with: 🍌 (000ms)

```
var hooks = function () {  
  this.After(function(callback) {  
    callback('Fail');  
  });  
};  
  
module.exports = hooks;
```

*When*

I run `cucumber.js -f json` 🍌 (200ms)

*Then*

it outputs this json: 🍌 (000ms)

```
[
  {
    "id": "some-feature",
    "name": "some feature",
    "description": "",
    "line": 1,
    "keyword": "Feature",
    "uri": "<current-directory>/features/a.feature",
    "elements": [
      {
        "name": "I've declared one step and it is passing",
        "id": "some-feature;i've-declared-one-step-and-it-is-passing",
        "line": 3,
        "keyword": "Scenario",
        "description": "",
        "type": "scenario",
        "steps": [
          {
            "name": "This step is passing",
            "line": 4,
            "keyword": "Given ",
            "result": {
              "duration": "<duration>",
              "status": "passed"
            },
            "match": {}
          },
          {
            "keyword": "After ",
            "hidden": true,
            "result": {
              "error_message": "<error-message>",
              "duration": "<duration>",
              "status": "failed"
            },
            "match": {}
          }
        ]
      }
    ]
  }
]
```

## Scenario: Failing after hook fails the scenario

*Given*

a file named "features/a.feature" with: 🍌 (007ms)

Feature: some feature

Scenario: I've declared one step and it is passing  
Given This step is passing

*And*

a file named "features/step\_definitions/cucumber\_steps.js" with: 🍌 (001ms)

```
var cucumberSteps = function() {  
  this.Given(/^This step is passing$/, function(callback) { callback(); });  
};  
module.exports = cucumberSteps;
```

*And*

a file named "features/support/hooks.js" with: 🍌 (000ms)

```
var hooks = function () {  
  this.After(function(callback) {  
    callback.fail();  
  });  
};  
  
module.exports = hooks;
```

*When*

I run `cucumber.js -f json` 🍌 (304ms)

*Then*

it outputs this json: 🍌 (000ms)

```
[
  {
    "id": "some-feature",
    "name": "some feature",
    "description": "",
    "line": 1,
    "keyword": "Feature",
    "uri": "<current-directory>/features/a.feature",
    "elements": [
      {
        "name": "I've declared one step and it is passing",
        "id": "some-feature;i've-declared-one-step-and-it-is-passing",
        "line": 3,
        "keyword": "Scenario",
        "description": "",
        "type": "scenario",
        "steps": [
          {
            "name": "This step is passing",
            "line": 4,
            "keyword": "Given ",
            "result": {
              "duration": "<duration>",
              "status": "passed"
            },
            "match": {}
          },
          {
            "keyword": "After ",
            "hidden": true,
            "result": {
              "error_message": "<error-message>",
              "duration": "<duration>",
              "status": "failed"
            },
            "match": {}
          }
        ]
      }
    ]
  }
]
```

## Scenario: Hooks still execute after a failure

*Given*

a file named "features/a.feature" with: 🍌 (005ms)

Feature: some feature

Scenario: I've declared one step and it is passing  
Given This step is passing

*And*

a file named "features/step\_definitions/cucumber\_steps.js" with: 🍌 (001ms)

```
var cucumberSteps = function() {  
  this.Given(/^This step is passing$/, function(callback) { callback(); });  
};  
module.exports = cucumberSteps;
```

*And*

a file named "features/support/hooks.js" with: 🍌 (000ms)

```
var hooks = function () {  
  this.Around(function(scenario, runScenario) {  
    runScenario("fail", function(callback) {  
      callback();  
    });  
  });  
  
  this.Around(function(scenario, runScenario) {  
    runScenario(function(callback) {  
      callback();  
    });  
  });  
  
  this.Before(function(scenario, callback) {  
    callback();  
  });  
  
  this.After(function(scenario, callback) {  
    callback();  
  });  
};  
  
module.exports = hooks;
```

*When*

I run `cucumber.js -f json` 🍌 (207ms)

*Then*

it outputs this json: 🍌 (000ms)

```
[
{
  "id": "some-feature",
  "name": "some feature",
  "description": "",
  "line": 1,
  "keyword": "Feature",
  "uri": "<current-directory>/features/a.feature",
  "elements": [
    {
      "name": "I've declared one step and it is passing",
      "id": "some-feature;i've-declared-one-step-and-it-is-passing",
      "line": 3,
      "keyword": "Scenario",
      "description": "",
      "type": "scenario",
      "steps": [
        {
          "keyword": "Around ",
          "hidden": true,
          "result": {
            "error_message": "<error-message>",
            "duration": "<duration>",
            "status": "failed"
          },
          "match": {}
        },
        {
          "keyword": "Around ",
          "hidden": true,
          "result": {
            "duration": "<duration>",
            "status": "passed"
          },
          "match": {}
        },
        {
          "keyword": "Before ",
          "hidden": true,
          "result": {
            "duration": "<duration>",
            "status": "passed"
          },
          "match": {}
        },
        {
          "name": "This step is passing",
          "line": 4,
          "keyword": "Given ",
          "result": {
            "status": "skipped"
          }
        }
      ]
    }
  ]
}
```

```

    },
    "match": {}
  },
  {
    "keyword": "After ",
    "hidden": true,
    "result": {
      "duration": "<duration>",
      "status": "passed"
    },
    "match": {}
  },
  {
    "keyword": "Around ",
    "hidden": true,
    "result": {
      "duration": "<duration>",
      "status": "passed"
    },
    "match": {}
  },
  {
    "keyword": "Around ",
    "hidden": true,
    "result": {
      "duration": "<duration>",
      "status": "passed"
    },
    "match": {}
  }
]
}
]
}
]

```

## Scenario: World is this in hooks

### Given

a file named "features/a.feature" with: 🍌 (005ms)

Feature: some feature

Scenario: I've declared one step and it is passing  
 Given This step is passing

### And



a file named "features/step\_definitions/cucumber\_steps.js" with: 🍌 (000ms)

```
var cucumberSteps = function() {  
  this.Given(/^This step is passing$/, function(callback) { callback(); });  
};  
module.exports = cucumberSteps;
```

*And*

a file named "features/support/world.js" with: 🍌 (001ms)

```
var WorldConstructor = function WorldConstructor(callback) {  
  var world = {  
    isWorld: function() { return true; }  
  };  
  
  callback(world); // tell Cucumber we're finished and to use our world object  
  instead of 'this'  
};  
  
module.exports.World = WorldConstructor;
```

*And*

a file named "features/support/hooks.js" with: 🍌 (001ms)

```

var hooks = function () {
  this.World = require("../support/world.js").World;

  this.Before(function(callback) {
    var world = this;

    if (!world.isWorld())
      callback("Expected this to be world");
    else
      callback();
  });

  this.After(function(callback) {
    var world = this;

    if (!world.isWorld())
      callback("Expected this to be world");
    else
      callback();
  });

  this.Around(function(runScenario) {
    var world = this;
    var error;

    if (!world.isWorld())
      error = "Expected this to be world";
    else
      error = null;

    runScenario(error, function(callback) {
      var world = this;
      var error;

      if (!world.isWorld())
        error = "Expected this to be world";
      else
        error = null;

      callback(error);
    });
  });
};

module.exports = hooks;

```

*When*

I run `cucumber.js -f json` 🍌 (200ms)

Then

it outputs this json: 📌 (000ms)

```
[
  {
    "id": "some-feature",
    "name": "some feature",
    "description": "",
    "line": 1,
    "keyword": "Feature",
    "uri": "<current-directory>/features/a.feature",
    "elements": [
      {
        "name": "I've declared one step and it is passing",
        "id": "some-feature;i've-declared-one-step-and-it-is-passing",
        "line": 3,
        "keyword": "Scenario",
        "description": "",
        "type": "scenario",
        "steps": [
          {
            "keyword": "Around ",
            "hidden": true,
            "result": {
              "duration": "<duration>",
              "status": "passed"
            },
            "match": {}
          },
          {
            "keyword": "Before ",
            "hidden": true,
            "result": {
              "duration": "<duration>",
              "status": "passed"
            },
            "match": {}
          },
          {
            "name": "This step is passing",
            "line": 4,
            "keyword": "Given ",
            "result": {
              "duration": "<duration>",
              "status": "passed"
            },
            "match": {}
          },
          {
            "keyword": "After ",
```

```

    "hidden": true,
    "result": {
      "duration": "<duration>",
      "status": "passed"
    },
    "match": {}
  },
  {
    "keyword": "Around ",
    "hidden": true,
    "result": {
      "duration": "<duration>",
      "status": "passed"
    },
    "match": {}
  }
]
}
]
]

```

## JSON Formatter

In order to simplify processing of Cucumber features and results  
Developers should be able to consume features as JSON

**Scenario: output JSON for a feature with no scenarios**

*Given*

a file named "features/a.feature" with: 🍌 (003ms)

Feature: some feature

*When*

I run `cucumber.js -f json` 🍌 (282ms)

*Then*

it outputs this json: 🍌 (000ms)

```
[
  {
    "id": "some-feature",
    "name": "some feature",
    "description": "",
    "line": 1,
    "keyword": "Feature",
    "uri": "<current-directory>/features/a.feature"
  }
]
```

**Scenario: output JSON for a feature with one undefined scenario**

### Given

a file named "features/a.feature" with: 🍌 (003ms)

Feature: some feature

Scenario: I havn't done anything yet

### When

I run `cucumber.js -f json` 🍌 (294ms)

### Then

it outputs this json: 🍌 (000ms)

```
[
  {
    "id": "some-feature",
    "name": "some feature",
    "description": "",
    "line": 1,
    "keyword": "Feature",
    "uri": "<current-directory>/features/a.feature",
    "elements": [
      {
        "name": "I havn't done anything yet",
        "id": "some-feature;i-havn't-done-anything-yet",
        "line": 3,
        "keyword": "Scenario",
        "description": "",
        "type": "scenario"
      }
    ]
  }
]
```

**Scenario: output JSON for a feature with one scenario with one undefined step**

### Given

a file named "features/a.feature" with: 🍌 (001ms)

Feature: some feature

Scenario: I've declared one step but not yet defined it  
Given I have not defined this step

### When

I run `cucumber.js -f json` 🍌 (202ms)

### Then

it outputs this json: 🍌 (000ms)

```
[
  {
    "id": "some-feature",
    "name": "some feature",
    "description": "",
    "line": 1,
    "keyword": "Feature",
    "uri": "<current-directory>/features/a.feature",
    "elements": [
      {
        "name": "I've declared one step but not yet defined it",
        "id": "some-feature;i've-declared-one-step-but-not-yet-defined-it",
        "line": 3,
        "keyword": "Scenario",
        "description": "",
        "type": "scenario",
        "steps": [
          {
            "name": "I have not defined this step",
            "line": 4,
            "keyword": "Given ",
            "result": {
              "status": "undefined"
            },
            "match": {}
          }
        ]
      }
    ]
  }
]
```

## Scenario: output JSON for a feature with one undefined step and subsequent defined steps which should be skipped

### Given

a file named "features/a.feature" with: 🍌 (001ms)

```
Feature: some feature
```

```
Scenario: One pending step and two following steps which will be skipped
```

```
  Given This step is undefined
```

```
  Then this step should be skipped
```

### And

a file named "features/step\_definitions/cucumber\_steps.js" with: 🍌 (000ms)

```
var cucumberSteps = function() {  
  this.Then(/^this step should be skipped$/, function(callback) { callback(); });  
};  
module.exports = cucumberSteps;
```

### When

I run `cucumber.js -f json` 🍌 (307ms)

### Then

it outputs this json: 🍌 (000ms)



```
[
  {
    "id": "some-feature",
    "name": "some feature",
    "description": "",
    "line": 1,
    "keyword": "Feature",
    "uri": "<current-directory>/features/a.feature",
    "elements": [
      {
        "name": "One pending step and two following steps which will be skipped",
        "id": "some-feature;one-pending-step-and-two-following-steps-which-will-be-skipped",
        "line": 3,
        "keyword": "Scenario",
        "description": "",
        "type": "scenario",
        "steps": [
          {
            "name": "This step is undefined",
            "line": 4,
            "keyword": "Given ",
            "result": {
              "status": "undefined"
            },
            "match": {
            }
          },
          {
            "name": "this step should be skipped",
            "line": 5,
            "keyword": "Then ",
            "result": {
              "status": "skipped"
            },
            "match": {
            }
          }
        ]
      }
    ]
  }
]
```

**Scenario: output JSON for a feature with one scenario with one pending step**

### *Given*

a file named "features/a.feature" with: 🍴 (002ms)

```
Feature: some feature
```

```
Scenario: I've declared one step which is pending  
  Given This step is pending
```

### *And*

a file named "features/step\_definitions/cucumber\_steps.js" with: 🍴 (000ms)

```
var cucumberSteps = function() {  
  this.Given(/^This step is pending$/, function(callback) { callback.pending();  
});  
};  
module.exports = cucumberSteps;
```

### *When*

I run `cucumber.js -f json` 🍴 (218ms)

### *Then*

it outputs this json: 🍴 (000ms)

```
[
  {
    "id": "some-feature",
    "name": "some feature",
    "description": "",
    "line": 1,
    "keyword": "Feature",
    "uri": "<current-directory>/features/a.feature",
    "elements": [
      {
        "name": "I've declared one step which is pending",
        "id": "some-feature;i've-declared-one-step-which-is-pending",
        "line": 3,
        "keyword": "Scenario",
        "description": "",
        "type": "scenario",
        "steps": [
          {
            "name": "This step is pending",
            "line": 4,
            "keyword": "Given ",
            "result": { "status": "pending" },
            "match": {
            }
          }
        ]
      }
    ]
  }
]
```

## Scenario: output JSON for a feature with one scenario with failing step

tags: @wip

### Given

a file named "features/a.feature" with: 🍌 (003ms)

Feature: some feature

Scenario: I've declared one step but it is failing

Given This step is failing

### And

a file named "features/step\_definitions/cucumber\_steps.js" with: 🍌 (000ms)

```
var cucumberSteps = function() {
  this.Given(/^This step is failing$/, function(callback) { callback.fail(); });
};
module.exports = cucumberSteps;
```

*When*

I run `cucumber.js -f json` 🍌 (214ms)

*Then*

it outputs this json: 🍌 (000ms)

```
[
  {
    "id": "some-feature",
    "name": "some feature",
    "description": "",
    "line": 1,
    "keyword": "Feature",
    "uri": "<current-directory>/features/a.feature",
    "elements": [
      {
        "name": "I've declared one step but it is failing",
        "id": "some-feature;i've-declared-one-step-but-it-is-failing",
        "line": 3,
        "keyword": "Scenario",
        "description": "",
        "type": "scenario",
        "steps": [
          {
            "name": "This step is failing",
            "line": 4,
            "keyword": "Given ",
            "result": {
              "error_message": "<error-message>",
              "duration": "<duration>",
              "status": "failed"
            },
            "match": {
            }
          }
        ]
      }
    ]
  }
]
```

## Scenario: output JSON for a feature with one scenario with passing step

### Given

a file named "features/a.feature" with: 🍌 (012ms)

Feature: some feature

Scenario: I've declared one step which passes  
Given This step is passing

### And

a file named "features/step\_definitions/cucumber\_steps.js" with: 🍌 (000ms)

```
var cucumberSteps = function() {  
  this.Given(/^This step is passing$/, function(callback) { callback(); });  
};  
module.exports = cucumberSteps;
```

### When

I run `cucumber.js -f json` 🍌 (301ms)

### Then

it outputs this json: 🍌 (000ms)

```
[
  {
    "id": "some-feature",
    "name": "some feature",
    "description": "",
    "line": 1,
    "keyword": "Feature",
    "uri": "<current-directory>/features/a.feature",
    "elements": [
      {
        "name": "I've declared one step which passes",
        "id": "some-feature;i've-declared-one-step-which-passes",
        "line": 3,
        "keyword": "Scenario",
        "description": "",
        "type": "scenario",
        "steps": [
          {
            "name": "This step is passing",
            "line": 4,
            "keyword": "Given ",
            "result": {
              "duration": "<duration>",
              "status": "passed"
            },
            "match": {
            }
          }
        ]
      }
    ]
  }
]
```

**Scenario: output JSON for a scenario with a passing step followed by one that is pending and one that fails**

*Given*

a file named "features/a.feature" with: 🍌 (004ms)

Feature: some feature

Scenario: I've declared one step which is passing, one pending and one failing.

Given This step is passing

And This step is pending

And This step fails but will be skipped

*And*

a file named "features/step\_definitions/cucumber\_steps.js" with: 🍌 (001ms)

```
var cucumberSteps = function() {
  this.Given(/^This step is passing$/, function(callback) { callback(); });
  this.Given(/^This step is pending$/, function(callback) { callback.pending();
});
  this.Given(/^This step fails but will be skipped$/, function(callback) {
callback.fail(); });
};
module.exports = cucumberSteps;
```

*When*

I run `cucumber.js -f json` 🍌 (298ms)

*Then*

it outputs this json: 🍌 (000ms)

```
[
  {
    "id": "some-feature",
    "name": "some feature",
    "description": "",
    "line": 1,
    "keyword": "Feature",
    "uri": "<current-directory>/features/a.feature",
    "elements": [
      {
        "name": "I've declared one step which is passing, one pending and one
failing.",
        "id": "some-feature;i've-declared-one-step-which-is-passing,-one-pending-
and-one-failing.",
        "line": 3,
        "keyword": "Scenario",
        "description": "",
        "type": "scenario",
        "steps": [
          {
            "name": "This step is passing",
            "line": 4,
            "keyword": "Given ",
            "result": {
              "duration": "<duration>",
              "status": "passed"
            },
            "match": {}
          },
          {

```

```

    "name": "This step is pending",
    "line": 5,
    "keyword": "And ",
    "result": {
      "status": "pending"
    },
    "match": {}
  },
  {
    "name": "This step fails but will be skipped",
    "line": 6,
    "keyword": "And ",
    "result": {
      "status": "skipped"
    },
    "match": {}
  }
]
}
]
}
]

```

### Scenario: output JSON for a scenario with a pending step followed by one that passes and one that fails

#### Given

a file named "features/a.feature" with: 🍌 (004ms)

Feature: some feature

Scenario: I've declared one step which is passing, one pending and one failing.

Given This step is pending

And This step is passing but will be skipped

And This step fails but will be skipped

#### And

a file named "features/step\_definitions/cucumber\_steps.js" with: 🍌 (001ms)



```

var cucumberSteps = function() {
  this.Given(/^This step is pending$/, function(callback) { callback.pending();
});
  this.Given(/^This step is passing but will be skipped$/, function(callback) {
callback(); });
  this.Given(/^This step fails but will be skipped$/, function(callback) {
callback.fail(); });
};
module.exports = cucumberSteps;

```

*When*

I run `cucumber.js -f json` 🍌 (287ms)

*Then*

it outputs this json: 🍌 (000ms)

```

[
  {
    "id": "some-feature",
    "name": "some feature",
    "description": "",
    "line": 1,
    "keyword": "Feature",
    "uri": "<current-directory>/features/a.feature",
    "elements": [
      {
        "name": "I've declared one step which is passing, one pending and one
failing.",
        "id": "some-feature;i've-declared-one-step-which-is-passing,-one-pending-
and-one-failing.",
        "line": 3,
        "keyword": "Scenario",
        "description": "",
        "type": "scenario",
        "steps": [
          {
            "name": "This step is pending",
            "line": 4,
            "keyword": "Given ",
            "result": {
              "status": "pending"
            },
            "match": {
            }
          },
          {
            "name": "This step is passing but will be skipped",
            "line": 5,
            "keyword": "And ",

```

```

    "result": {
      "status": "skipped"
    },
    "match": {
    }
  },
  {
    "name": "This step fails but will be skipped",
    "line": 6,
    "keyword": "And ",
    "result": {
      "status": "skipped"
    },
    "match": {
    }
  }
]
}
]
]

```

## Scenario: output JSON for one feature, one passing scenario, one failing scenario

### Given

a file named "features/a.feature" with: 🍌 (004ms)

Feature: one passes one fails

Scenario: This one passes

Given This step is passing

Scenario: This one fails

Given This step is failing

### And

a file named "features/step\_definitions/cucumber\_steps.js" with: 🍌 (001ms)

```

var cucumberSteps = function() {
  this.Given(/^This step is passing$/, function(callback) { callback(); });
  this.Given(/^This step is failing$/, function(callback) { callback.fail(); });
};
module.exports = cucumberSteps;

```

### When

I run `cucumber.js -f json` 🍌 (321ms)

*Then*

it outputs this json: 🍌 (000ms)

```
[
  {
    "id": "one-passes-one-fails",
    "name": "one passes one fails",
    "description": "",
    "line": 1,
    "keyword": "Feature",
    "uri": "<current-directory>/features/a.feature",
    "elements": [
      {
        "name": "This one passes",
        "id": "one-passes-one-fails;this-one-passes",
        "line": 3,
        "keyword": "Scenario",
        "description": "",
        "type": "scenario",
        "steps": [
          {
            "name": "This step is passing",
            "line": 4,
            "keyword": "Given ",
            "result": {
              "duration": "<duration>",
              "status": "passed"
            },
            "match": {
            }
          }
        ]
      }
    ],
  },
  {
    "name": "This one fails",
    "id": "one-passes-one-fails;this-one-fails",
    "line": 5,
    "keyword": "Scenario",
    "description": "",
    "type": "scenario",
    "steps": [
      {
        "name": "This step is failing",
        "line": 6,
        "keyword": "Given ",
        "result": {
          "error_message": "<error-message>",
          "duration": "<duration>",
        }
      }
    ]
  }
]
```

```
        "status": "failed"
      },
      "match": {
      }
    }
  ]
}
]
```

## Scenario: output JSON for multiple features

*Given*

a file named "features/a.feature" with: 🍌 (003ms)

Feature: feature a

Scenario: This is the first feature  
Given This step is passing

*And*

a file named "features/b.feature" with: 🍌 (001ms)

Feature: feature b

Scenario: This is the second feature  
Given This step is passing

*And*

a file named "features/c.feature" with: 🍌 (001ms)

Feature: feature c

Scenario: This is the third feature  
Given This step is passing

*And*

a file named "features/step\_definitions/cucumber\_steps.js" with: 🍌 (001ms)

```
var cucumberSteps = function() {
  this.Given(/^This step is passing$/, function(callback) { callback(); });
};
module.exports = cucumberSteps;
```

*When*

I run `cucumber.js -f json features/a.feature features/b.feature features/c.feature` 🍌  
(290ms)

*Then*

it outputs this json: 🍌 (000ms)

```
[
  {
    "id": "feature-a",
    "name": "feature a",
    "description": "",
    "line": 1,
    "keyword": "Feature",
    "uri": "<current-directory>/features/a.feature",
    "elements": [
      {
        "name": "This is the first feature",
        "id": "feature-a;this-is-the-first-feature",
        "line": 3,
        "keyword": "Scenario",
        "description": "",
        "type": "scenario",
        "steps": [
          {
            "name": "This step is passing",
            "line": 4,
            "keyword": "Given ",
            "result": {
              "duration": "<duration>",
              "status": "passed"
            },
            "match": {
            }
          }
        ]
      }
    ]
  },
  {
    "id": "feature-b",
    "name": "feature b",
    "description": "",
    "line": 1,
```

```

"keyword": "Feature",
"uri": "<current-directory>/features/b.feature",
"elements": [
  {
    "name": "This is the second feature",
    "id": "feature-b;this-is-the-second-feature",
    "line": 3,
    "keyword": "Scenario",
    "description": "",
    "type": "scenario",
    "steps": [
      {
        "name": "This step is passing",
        "line": 4,
        "keyword": "Given ",
        "result": {
          "duration": "<duration>",
          "status": "passed"
        },
        "match": {}
      }
    ]
  }
],
{
  "id": "feature-c",
  "name": "feature c",
  "description": "",
  "line": 1,
  "keyword": "Feature",
  "uri": "<current-directory>/features/c.feature",
  "elements": [
    {
      "name": "This is the third feature",
      "id": "feature-c;this-is-the-third-feature",
      "line": 3,
      "keyword": "Scenario",
      "description": "",
      "type": "scenario",
      "steps": [
        {
          "name": "This step is passing",
          "line": 4,
          "keyword": "Given ",
          "result": {
            "duration": "<duration>",
            "status": "passed"
          },
          "match": {}
        }
      ]
    }
  ]
}

```

```
]
  }
]
}
```

## Scenario: output JSON for multiple features each with multiple scenarios

### Given

a file named "features/a.feature" with: 🍌 (004ms)

Feature: feature a

Scenario: This is the feature a scenario one

Given This step is passing

Scenario: This is the feature a scenario two

Given This step is passing

Scenario: This is the feature a scenario three

Given This step is passing

### And

a file named "features/b.feature" with: 🍌 (001ms)

Feature: feature b

Scenario: This is the feature b scenario one

Given This step is passing

Scenario: This is the feature b scenario two

Given This step is passing

Scenario: This is the feature b scenario three

Given This step is passing

### And

a file named "features/c.feature" with: 🍌 (001ms)

Feature: feature c

Scenario: This is the feature c scenario one  
Given This step is passing

Scenario: This is the feature c scenario two  
Given This step is passing

Scenario: This is the feature c scenario three  
Given This step is passing

*And*

a file named "features/step\_definitions/cucumber\_steps.js" with: 🍌 (000ms)

```
var cucumberSteps = function() {  
  this.Given(/^This step is passing$/, function(callback) { callback(); });  
};  
module.exports = cucumberSteps;
```

*When*

I run `cucumber.js -f json features/a.feature features/b.feature features/c.feature` 🍌  
(320ms)

*Then*

it outputs this json: 🍌 (003ms)

```
[  
  {  
    "id": "feature-a",  
    "name": "feature a",  
    "description": "",  
    "line": 1,  
    "keyword": "Feature",  
    "uri": "<current-directory>/features/a.feature",  
    "elements": [  
      {  
        "name": "This is the feature a scenario one",  
        "id": "feature-a;this-is-the-feature-a-scenario-one",  
        "line": 3,  
        "keyword": "Scenario",  
        "description": "",  
        "type": "scenario",  
        "steps": [  
          {  
            "name": "This step is passing",  
            "line": 4,  
            "keyword": "Given ",
```



```

        "result": {
            "duration": "<duration>",
            "status": "passed"
        },
        "match": {
        }
    }
]
},
{
    "name": "This is the feature a scenario two",
    "id": "feature-a;this-is-the-feature-a-scenario-two",
    "line": 6,
    "keyword": "Scenario",
    "description": "",
    "type": "scenario",
    "steps": [
        {
            "name": "This step is passing",
            "line": 7,
            "keyword": "Given ",
            "result": {
                "duration": "<duration>",
                "status": "passed"
            },
            "match": {}
        }
    ]
},
{
    "name": "This is the feature a scenario three",
    "id": "feature-a;this-is-the-feature-a-scenario-three",
    "line": 9,
    "keyword": "Scenario",
    "description": "",
    "type": "scenario",
    "steps": [
        {
            "name": "This step is passing",
            "line": 10,
            "keyword": "Given ",
            "result": {
                "duration": "<duration>",
                "status": "passed"
            },
            "match": {}
        }
    ]
}
],
},

```

```

{
  "id": "feature-b",
  "name": "feature b",
  "description": "",
  "line": 1,
  "keyword": "Feature",
  "uri": "<current-directory>/features/b.feature",
  "elements": [
    {
      "name": "This is the feature b scenario one",
      "id": "feature-b;this-is-the-feature-b-scenario-one",
      "line": 3,
      "keyword": "Scenario",
      "description": "",
      "type": "scenario",
      "steps": [
        {
          "name": "This step is passing",
          "line": 4,
          "keyword": "Given ",
          "result": {
            "duration": "<duration>",
            "status": "passed"
          },
          "match": {}
        }
      ]
    },
    {
      "name": "This is the feature b scenario two",
      "id": "feature-b;this-is-the-feature-b-scenario-two",
      "line": 6,
      "keyword": "Scenario",
      "description": "",
      "type": "scenario",
      "steps": [
        {
          "name": "This step is passing",
          "line": 7,
          "keyword": "Given ",
          "result": {
            "duration": "<duration>",
            "status": "passed"
          },
          "match": {}
        }
      ]
    },
    {
      "name": "This is the feature b scenario three",
      "id": "feature-b;this-is-the-feature-b-scenario-three",

```

```

    "line": 9,
    "keyword": "Scenario",
    "description": "",
    "type": "scenario",
    "steps": [
      {
        "name": "This step is passing",
        "line": 10,
        "keyword": "Given ",
        "result": {
          "duration": "<duration>",
          "status": "passed"
        },
        "match": {}
      }
    ]
  },
  {
    "id": "feature-c",
    "name": "feature c",
    "description": "",
    "line": 1,
    "keyword": "Feature",
    "uri": "<current-directory>/features/c.feature",
    "elements": [
      {
        "name": "This is the feature c scenario one",
        "id": "feature-c;this-is-the-feature-c-scenario-one",
        "line": 3,
        "keyword": "Scenario",
        "description": "",
        "type": "scenario",
        "steps": [
          {
            "name": "This step is passing",
            "line": 4,
            "keyword": "Given ",
            "result": {
              "duration": "<duration>",
              "status": "passed"
            },
            "match": {}
          }
        ]
      }
    ],
    {
      "name": "This is the feature c scenario two",
      "id": "feature-c;this-is-the-feature-c-scenario-two",
      "line": 6,

```

```

    "keyword": "Scenario",
    "description": "",
    "type": "scenario",
    "steps": [
      {
        "name": "This step is passing",
        "line": 7,
        "keyword": "Given ",
        "result": {
          "duration": "<duration>",
          "status": "passed"
        },
        "match": {}
      }
    ]
  },
  {
    "name": "This is the feature c scenario three",
    "id": "feature-c;this-is-the-feature-c-scenario-three",
    "line": 9,
    "keyword": "Scenario",
    "description": "",
    "type": "scenario",
    "steps": [
      {
        "name": "This step is passing",
        "line": 10,
        "keyword": "Given ",
        "result": {
          "duration": "<duration>",
          "status": "passed"
        },
        "match": {}
      }
    ]
  }
]

```

## Scenario: output JSON for a feature with a background

*Given*

a file named "features/a.feature" with: 🍌 (005ms)

Feature: some feature

Background:

Given This applies to all scenarios

*And*

a file named "features/step\_definitions/cucumber\_steps.js" with: 🍌 (001ms)

```
var cucumberSteps = function() {  
  this.Given(/^This applies to all scenarios$/, function(callback) { callback();  
});  
};  
module.exports = cucumberSteps;
```

*When*

I run `cucumber.js -f json` 🍌 (294ms)

*Then*

it outputs this json: 🍌 (000ms)

```
[  
  {  
    "id": "some-feature",  
    "name": "some feature",  
    "description": "",  
    "line": 1,  
    "keyword": "Feature",  
    "uri": "<current-directory>/features/a.feature",  
    "elements": [  
      {  
        "name": "",  
        "keyword": "Background",  
        "description": "",  
        "type": "background",  
        "line": 3,  
        "steps": [  
          {  
            "name": "This applies to all scenarios",  
            "line": 4,  
            "keyword": "Given "  
          }  
        ]  
      }  
    ]  
  }  
]
```

## Scenario: output JSON for a feature with a failing background

Since the background step is re-evaluated for each scenario that is where the result of the step is currently recorded in the JSON output.

If the background is being re-evaluated for each scenario then it would be misleading to only output the result for the first time it was evaluated.

### Given

a file named "features/a.feature" with: 🍌 (003ms)

Feature: some feature

Background:

Given This applies to all scenarios but fails

### And

a file named "features/step\_definitions/cucumber\_steps.js" with: 🍌 (000ms)

```
var cucumberSteps = function() {  
  this.Given(/^This applies to all scenarios but fails$/, function(callback) {  
    callback.fail(); });  
};  
module.exports = cucumberSteps;
```

### When

I run `cucumber.js -f json` 🍌 (289ms)

### Then

it outputs this json: 🍌 (000ms)

```
[
  {
    "id": "some-feature",
    "name": "some feature",
    "description": "",
    "line": 1,
    "keyword": "Feature",
    "uri": "<current-directory>/features/a.feature",
    "elements": [
      {
        "name": "",
        "keyword": "Background",
        "description": "",
        "type": "background",
        "line": 3,
        "steps": [
          {
            "name": "This applies to all scenarios but fails",
            "line": 4,
            "keyword": "Given "
          }
        ]
      }
    ]
  }
]
```

## Scenario: output JSON for a feature with a DocString

*Given*

a file named "features/a.feature" with: 🍌 (003ms)

Feature: some feature

Scenario: Scenario with DocString

Given we have this DocString:

"""

This is a DocString

"""

*And*

a file named "features/step\_definitions/cucumber\_steps.js" with: 🍌 (000ms)

```
var cucumberSteps = function() {  
  this.Given(/^we have this DocString:$/, function(string, callback) {  
    callback(); });  
};  
module.exports = cucumberSteps;
```

*When*

I run `cucumber.js -f json` 🍌 (273ms)

*Then*

it outputs this json: 🍌 (000ms)



```
[
  {
    "id": "some-feature",
    "name": "some feature",
    "description": "",
    "line": 1,
    "keyword": "Feature",
    "uri": "<current-directory>/features/a.feature",
    "elements": [
      {
        "name": "Scenario with DocString",
        "id": "some-feature;scenario-with-docstring",
        "line": 3,
        "keyword": "Scenario",
        "description": "",
        "type": "scenario",
        "steps": [
          {
            "name": "we have this DocString:",
            "line": 4,
            "keyword": "Given ",
            "doc_string": {
              "value": "This is a DocString",
              "line": 5,
              "content_type": ""
            },
            "result": {
              "duration": "<duration>",
              "status": "passed"
            },
            "match": {}
          }
        ]
      }
    ]
  }
]
```

## Scenario: output JSON for background step with a DocString

*Given*

a file named "features/a.feature" with: 🍌 (003ms)

Feature: some feature

Background: Background with DocString

Given we have this DocString:

"""

This is a DocString

"""

*And*

a file named "features/step\_definitions/cucumber\_steps.js" with: 🍌 (000ms)

```
var cucumberSteps = function() {  
  this.Given(/^we have this DocString:$/, function(string, callback) {  
    callback(); });  
};  
module.exports = cucumberSteps;
```

*When*

I run `cucumber.js -f json` 🍌 (279ms)

*Then*

it outputs this json: 🍌 (000ms)

```
[
  {
    "id": "some-feature",
    "name": "some feature",
    "description": "",
    "line": 1,
    "keyword": "Feature",
    "uri": "<current-directory>/features/a.feature",
    "elements": [
      {
        "name": "Background with DocString",
        "keyword": "Background",
        "description": "",
        "type": "background",
        "line": 3,
        "steps": [
          {
            "name": "we have this DocString:",
            "line": 4,
            "keyword": "Given ",
            "doc_string": {
              "value": "This is a DocString",
              "line": 5,
              "content_type": ""
            }
          }
        ]
      }
    ]
  }
]
```

## Scenario: output JSON for a feature with tags

*Given*

a file named "features/a.feature" with: 🍌 (003ms)

```
@alpha @beta @gamma
Feature: some feature
```

```
Scenario: This scenario has no tags
  Given This step is passing
```

*And*

a file named "features/step\_definitions/cucumber\_steps.js" with: 🍌 (001ms)

```
var cucumberSteps = function() {  
  this.Given(/^This step is passing$/, function(callback) { callback(); });  
};  
module.exports = cucumberSteps;
```

*When*

I run `cucumber.js -f json` 🍌 (303ms)

*Then*

it outputs this json: 🍌 (000ms)

```
[
  {
    "id": "some-feature",
    "name": "some feature",
    "description": "",
    "line": 2,
    "keyword": "Feature",
    "tags": [
      {
        "name": "@alpha",
        "line": 1
      },
      {
        "name": "@beta",
        "line": 1
      },
      {
        "name": "@gamma",
        "line": 1
      }
    ],
    "uri": "<current-directory>/features/a.feature",
    "elements": [
      {
        "name": "This scenario has no tags",
        "id": "some-feature;this-scenario-has-no-tags",
        "line": 4,
        "keyword": "Scenario",
        "description": "",
        "type": "scenario",
        "steps": [
          {
            "name": "This step is passing",
            "line": 5,
            "keyword": "Given ",
            "result": {
              "duration": "<duration>",
              "status": "passed"
            },
            "match": {}
          }
        ]
      }
    ]
  }
]
```

## Scenario: output JSON for scenario with tags

### Given

a file named "features/a.feature" with: 🍌 (003ms)

```
Feature: some feature
```

```
@one @two @three
```

```
Scenario: This scenario has tags
```

```
  Given This step is passing
```

### And

a file named "features/step\_definitions/cucumber\_steps.js" with: 🍌 (001ms)

```
var cucumberSteps = function() {  
  this.Given(/^This step is passing$/, function(callback) { callback(); });  
};  
module.exports = cucumberSteps;
```

### When

I run `cucumber.js -f json` 🍌 (305ms)

### Then

it outputs this json: 🍌 (000ms)

```
[
  {
    "id": "some-feature",
    "name": "some feature",
    "description": "",
    "line": 1,
    "keyword": "Feature",
    "uri": "<current-directory>/features/a.feature",
    "elements": [
      {
        "name": "This scenario has tags",
        "id": "some-feature;this-scenario-has-tags",
        "line": 4,
        "keyword": "Scenario",
        "description": "",
        "type": "scenario",
        "tags": [
          {
            "name": "@one",
            "line": 3
          },
          {
            "name": "@two",
            "line": 3
          },
          {
            "name": "@three",
            "line": 3
          }
        ],
        "steps": [
          {
            "name": "This step is passing",
            "line": 5,
            "keyword": "Given ",
            "result": {
              "duration": "<duration>",
              "status": "passed"
            },
            "match": {}
          }
        ]
      }
    ]
  }
]
```

## Scenario: output JSON for a step with table

Rows do not appear to support line attribute yet.

*Given*

a file named "features/a.feature" with: 🍌 (003ms)

```
Feature: some feature
```

```
Scenario: This scenario contains a step with a table
```

```
  Given This table:
```

col 1	col 2	col 3
one	two	three
1	2	3
!	~	@

*And*

a file named "features/step\_definitions/cucumber\_steps.js" with: 🍌 (001ms)

```
var cucumberSteps = function() {  
  this.Given(/^This table:$/, function(table, callback) { callback(); });  
};  
module.exports = cucumberSteps;
```

*When*

I run `cucumber.js -f json` 🍌 (262ms)

*Then*

it outputs this json: 🍌 (002ms)



```
[
  {
    "id": "some-feature",
    "name": "some feature",
    "description": "",
    "line": 1,
    "keyword": "Feature",
    "uri": "<current-directory>/features/a.feature",
    "elements": [
      {
        "name": "This scenario contains a step with a table",
        "id": "some-feature;this-scenario-contains-a-step-with-a-table",
        "line": 3,
        "keyword": "Scenario",
        "description": "",
        "type": "scenario",
        "steps": [
          {
            "name": "This table:",
            "line": 4,
            "keyword": "Given ",
            "rows": [
              { "cells": ["col 1", "col 2", "col 3" ] },
              { "cells": ["one", "two", "three"] },
              { "cells": ["1", "2", "3"] },
              { "cells": ["!", "~", "@"] }
            ],
            "result": {
              "duration": "<duration>",
              "status": "passed"
            },
            "match": {}
          }
        ]
      }
    ]
  }
]
```

## Scenario: output JSON for background with table

Rows do not appear to support line attribute yet.

*Given*

a file named "features/a.feature" with: 🍌 (003ms)

Feature: some feature

Background:

Given This table:

col 1	col 2	col 3
one	two	three
1	2	3
!	~	@

*And*

a file named "features/step\_definitions/cucumber\_steps.js" with: 🍌 (000ms)

```
var cucumberSteps = function() {  
  this.Given(/^This table:$/, function(table, callback) { callback(); });  
};  
module.exports = cucumberSteps;
```

*When*

I run `cucumber.js -f json` 🍌 (202ms)

*Then*

it outputs this json: 🍌 (000ms)

```
[
  {
    "id": "some-feature",
    "name": "some feature",
    "description": "",
    "line": 1,
    "keyword": "Feature",
    "uri": "<current-directory>/features/a.feature",
    "elements": [
      {
        "name": "",
        "keyword": "Background",
        "description": "",
        "type": "background",
        "line": 3,
        "steps": [
          {
            "name": "This table:",
            "line": 4,
            "keyword": "Given ",
            "rows": [
              { "cells": ["col 1", "col 2", "col 3"] },
              { "cells": ["one", "two", "three"] },
              { "cells": ["1", "2", "3"] },
              { "cells": ["!", "~", "@"] }
            ]
          }
        ]
      }
    ]
  }
]
```

**Scenario: output JSON for a feature with one scenario outline with no examples tables**

*Given*

a file named "features/a.feature" with: 🍌 (003ms)

Feature: some feature

Scenario Outline: I've declared one step which passes  
Given This <instance> step is passing

*When*

I run `cucumber.js -f json` 🍌 (301ms)

*Then*

it outputs this json: 🍌 (000ms)

```
[
  {
    "id": "some-feature",
    "name": "some feature",
    "description": "",
    "line": 1,
    "keyword": "Feature",
    "uri": "<current-directory>/features/a.feature"
  }
]
```

**Scenario: output JSON for a feature with one scenario outline with an examples table with no rows**

### Given

a file named "features/a.feature" with: 🍌 (003ms)

Feature: some feature

Scenario Outline: I've declared one step which passes  
Given This <instance> step is passing

Examples:

instance
----------

### When

I run `cucumber.js -f json` 🍌 (303ms)

### Then

it outputs this json: 🍌 (000ms)

```
[
  {
    "id": "some-feature",
    "name": "some feature",
    "description": "",
    "line": 1,
    "keyword": "Feature",
    "uri": "<current-directory>/features/a.feature"
  }
]
```

## Scenario: output JSON for a feature with one scenario outline with an examples table with two rows

### Given

a file named "features/a.feature" with: 🍌 (003ms)

Feature: some feature

Scenario Outline: I've declared one step which passes  
Given This <instance> step is passing

Examples:

instance
first
second

*And*

a file named "features/step\_definitions/cucumber\_steps.js" with: 🍌 (000ms)

```
var cucumberSteps = function() {  
  this.Given(/^This (first|second) step is passing$/, function(instance,  
    callback) { callback(); });  
};  
module.exports = cucumberSteps;
```

*When*

I run `cucumber.js -f json` 🍌 (309ms)

*Then*

it outputs this json: 🍌 (000ms)

```
[  
  {  
    "id": "some-feature",  
    "name": "some feature",  
    "description": "",  
    "line": 1,  
    "keyword": "Feature",  
    "uri": "<current-directory>/features/a.feature",  
    "elements": [  
      {  
        "name": "I've declared one step which passes",  
        "id": "some-feature;i've-declared-one-step-which-passes",  
        "line": 3,  
        "keyword": "Scenario",  
        "description": "",  
        "type": "scenario",  
        "steps": [  
          {  
            "name": "This first step is passing",  
            "line": 4,  
            "keyword": "Given ",  
            "result": {  
              "duration": "<duration>",  
              "status": "passed"  
            },  
            "match": {}  
          },  
          {  
            "name": "I've declared one step which passes",  
            "id": "some-feature;i've-declared-one-step-which-passes",  
            "line": 3,
```

```

    "keyword": "Scenario",
    "description": "",
    "type": "scenario",
    "steps": [
      {
        "name": "This second step is passing",
        "line": 4,
        "keyword": "Given ",
        "result": {
          "duration": "<duration>",
          "status": "passed"
        },
        "match": {}
      }
    ]
  }
]

```

## Scenario: output JSON for a feature with one scenario outline with an examples table with two rows and a background

*Given*

a file named "features/a.feature" with: 🍌 (003ms)

Feature: some feature

Background:

Given This applies to all scenarios

Scenario Outline: I've declared one step which passes

Given This <instance> step is passing

Examples:

instance
first

*And*

a file named "features/step\_definitions/cucumber\_steps.js" with: 🍌 (000ms)

```
var cucumberSteps = function() {
  this.Given(/^This applies to all scenarios$/, function(callback) { callback();
});
  this.Given(/^This (first|second) step is passing$/, function(instance,
callback) { callback(); });
};
module.exports = cucumberSteps;
```

### When

I run `cucumber.js -f json` 🍌 (247ms)

### Then

it outputs this json: 🍌 (000ms)

```
[
  {
    "id": "some-feature",
    "name": "some feature",
    "description": "",
    "line": 1,
    "keyword": "Feature",
    "uri": "<current-directory>/features/a.feature",
    "elements": [
      {
        "name": "",
        "keyword": "Background",
        "description": "",
        "type": "background",
        "line": 2,
        "steps": [
          {
            "name": "This applies to all scenarios",
            "line": 3,
            "keyword": "Given "
          }
        ]
      }
    ],
  },
  {
    "name": "I've declared one step which passes",
    "id": "some-feature;i've-declared-one-step-which-passes",
    "line": 5,
    "keyword": "Scenario",
    "description": "",
    "type": "scenario",
    "steps": [
      {
        "name": "This applies to all scenarios",
        "line": 3,
        "keyword": "Given ",
```



```

    "result": {
      "duration": "<duration>",
      "status": "passed"
    },
    "match": {}
  },
  {
    "name": "This first step is passing",
    "line": 6,
    "keyword": "Given ",
    "result": {
      "duration": "<duration>",
      "status": "passed"
    },
    "match": {}
  }
]
}
]

```

## Scenario: output JSON for a feature with one scenario outline with two examples tables

*Given*

a file named "features/a.feature" with: 🍌 (002ms)

Feature: some feature

Scenario Outline: I've declared one step which passes  
 Given This <instance> step is passing

Examples:

instance
first

Examples:

instance
second

*And*

a file named "features/step\_definitions/cucumber\_steps.js" with: 🍌 (000ms)

```
var cucumberSteps = function() {
  this.Given(/^This (first|second) step is passing$/, function(instance,
callback) { callback(); });
};
module.exports = cucumberSteps;
```

*When*

I run `cucumber.js -f json` 🍌 (306ms)

*Then*

it outputs this json: 🍌 (000ms)

```
[
  {
    "id": "some-feature",
    "name": "some feature",
    "description": "",
    "line": 1,
    "keyword": "Feature",
    "uri": "<current-directory>/features/a.feature",
    "elements": [
      {
        "name": "I've declared one step which passes",
        "id": "some-feature;i've-declared-one-step-which-passes",
        "line": 3,
        "keyword": "Scenario",
        "description": "",
        "type": "scenario",
        "steps": [
          {
            "name": "This first step is passing",
            "line": 4,
            "keyword": "Given ",
            "result": {
              "duration": "<duration>",
              "status": "passed"
            },
            "match": {}
          }
        ]
      }
    ],
  },
  {
    "name": "I've declared one step which passes",
    "id": "some-feature;i've-declared-one-step-which-passes",
    "line": 3,
    "keyword": "Scenario",
    "description": "",
    "type": "scenario",
    "steps": [
```

```

    {
      "name": "This second step is passing",
      "line": 4,
      "keyword": "Given ",
      "result": {
        "duration": "<duration>",
        "status": "passed"
      },
      "match": {}
    }
  ]
}
]

```

## Scenario: output JSON for a feature with one scenario outline with an examples table with two rows and before, after and around hooks

### Given

a file named "features/a.feature" with: 🍌 (003ms)

Feature: some feature

Scenario Outline: I've declared one step which passes  
 Given This <instance> step is passing

Examples:

instance	
first	
second	

### And

a file named "features/step\_definitions/cucumber\_steps.js" with: 🍌 (001ms)

```

var cucumberSteps = function() {
  this.Given(/^This (first|second) step is passing$/, function(instance,
callback) { callback(); });
};
module.exports = cucumberSteps;

```

### And

a file named "features/support/hooks.js" with: 🍌 (000ms)

```

var hooks = function () {
  this.Before(function(callback) {
    callback();
  });

  this.After(function(callback) {
    callback();
  });

  this.Around(function(runScenario) {
    runScenario(function(callback) {
      callback();
    });
  });
};

module.exports = hooks;

```

*When*

I run `cucumber.js -f json` 🍌 (268ms)

*Then*

it outputs this json: 🍌 (002ms)

```

[
  {
    "id": "some-feature",
    "name": "some feature",
    "description": "",
    "line": 1,
    "keyword": "Feature",
    "uri": "<current-directory>/features/a.feature",
    "elements": [
      {
        "name": "I've declared one step which passes",
        "id": "some-feature;i've-declared-one-step-which-passes",
        "line": 3,
        "keyword": "Scenario",
        "description": "",
        "type": "scenario",
        "steps": [
          {
            "keyword": "Around ",
            "hidden": true,
            "result": {
              "duration": "<duration>",
              "status": "passed"
            },
            "match": {}
          }
        ]
      }
    ]
  }
]

```

```

    },
    {
      "keyword": "Before ",
      "hidden": true,
      "result": {
        "duration": "<duration>",
        "status": "passed"
      },
      "match": {}
    },
    {
      "name": "This first step is passing",
      "line": 4,
      "keyword": "Given ",
      "result": {
        "duration": "<duration>",
        "status": "passed"
      },
      "match": {}
    },
    {
      "keyword": "After ",
      "hidden": true,
      "result": {
        "duration": "<duration>",
        "status": "passed"
      },
      "match": {}
    },
    {
      "keyword": "Around ",
      "hidden": true,
      "result": {
        "duration": "<duration>",
        "status": "passed"
      },
      "match": {}
    }
  ]
},
{
  "name": "I've declared one step which passes",
  "id": "some-feature;i've-declared-one-step-which-passes",
  "line": 3,
  "keyword": "Scenario",
  "description": "",
  "type": "scenario",
  "steps": [
    {
      "keyword": "Around ",
      "hidden": true,

```

```

    "result": {
      "duration": "<duration>",
      "status": "passed"
    },
    "match": {}
  },
  {
    "keyword": "Before ",
    "hidden": true,
    "result": {
      "duration": "<duration>",
      "status": "passed"
    },
    "match": {}
  },
  {
    "name": "This second step is passing",
    "line": 4,
    "keyword": "Given ",
    "result": {
      "duration": "<duration>",
      "status": "passed"
    },
    "match": {}
  },
  {
    "keyword": "After ",
    "hidden": true,
    "result": {
      "duration": "<duration>",
      "status": "passed"
    },
    "match": {}
  },
  {
    "keyword": "Around ",
    "hidden": true,
    "result": {
      "duration": "<duration>",
      "status": "passed"
    },
    "match": {}
  }
]
}
]
}
]

```

# PogoScript support

In order to use the JS dialect that totally rocks  
As a step definition implementor  
I want to use PogoScript for writing step definitions

## Scenario: PogoScript step definition 🍄

*Given*

a mapping written in PogoScript 🍄 (000ms)

*When*

Cucumber executes a scenario using that mapping 🍄 (000ms)

*Then*

the feature passes 🍄 (000ms)

*And*

the mapping is run 🍄 (000ms)

# Pretty Formatter

In order to visualize the tests in an a set of Cucumber features  
Developers should be able to see prettified view of the scenarios that are being executed

## Scenario: Output pretty text for a feature with no scenarios

### Given

a file named "features/a.feature" with: 🍌 (002ms)

```
Feature: some feature
```

### When

I run `cucumber.js -f pretty` 🍌 (299ms)

### Then

it outputs this text: 🍌 (000ms)

```
Feature: some feature
```

```
0 scenarios
```

```
0 steps
```

## Scenario: Pretty formatter hides around, before and after hooks

### Given

a file named "features/a.feature" with: 🍌 (003ms)

```
Feature: some feature
```

```
Scenario: I've declared one step which passes  
  Given This step is passing
```

### And

a file named "features/step\_definitions/cucumber\_steps.js" with: 🍌 (001ms)

```
var cucumberSteps = function() {  
  this.Given(/^This step is passing$/, function(callback) { callback(); });  
};  
module.exports = cucumberSteps;
```

### And

a file named "features/support/hooks.js" with: 🍌 (000ms)



```

var hooks = function () {
  this.Before(function(callback) {
    callback();
  });

  this.After(function(callback) {
    callback();
  });

  this.Around(function(runScenario) {
    runScenario(function(callback) {
      callback();
    });
  });
};

module.exports = hooks;

```

*When*

I run `cucumber.js -f pretty` 🍌 (306ms)

*Then*

it outputs this text: 🍌 (000ms)

Feature: some feature

Scenario: I've declared one step which passes	# features/a.feature:3
Given This step is passing	# features/a.feature:4

1 scenario (1 passed)  
1 step (1 passed)

## Scenario: Failing hook is reported as a failed step

*Given*

a file named "features/a.feature" with: 🍌 (004ms)

Feature: some feature

Scenario: I've declared one step and it is passing  
Given This step is passing

*And*

a file named "features/step\_definitions/cucumber\_steps.js" with: 🍌 (001ms)

```
var cucumberSteps = function() {
  this.Given(/^This step is passing$/, function(callback) { callback(); });
};
module.exports = cucumberSteps;
```

*And*

a file named "features/support/hooks.js" with: 🍌 (000ms)

```
var hooks = function () {
  this.Before(function(callback) {
    callback('Fail');
  });
};

module.exports = hooks;
```

*When*

I run `cucumber.js -f pretty` 🍌 (196ms)

*Then*

it outputs this text: 🍌 (000ms)

```
Feature: some feature

Scenario: I've declared one step and it is passing # features/a.feature:3
  Before
    Fail
    Given This step is passing # features/a.feature:4

(::) failed steps (::)

Fail

Failing scenarios:
<current-directory>/features/a.feature:3 # Scenario: I've declared one step and
it is passing

1 scenario (1 failed)
2 steps (1 failed, 1 skipped)
```

# Scenario Outlines and Examples

## Scenario: Basic outline

*Given*

the following feature: 🍌 (000ms)

Feature: testing scenarios

Background:

Given a background step

Scenario Outline: A <some> step is followed by <result> steps

When a <some> step

Then i get <result>

Examples:

some	result	
passing	passed	
failing	skipped	

*And*

the step "a background step" has a passing mapping 🍌 (000ms)

*And*

the step "a passing step" has a passing mapping 🍌 (000ms)

*And*

the step "a failing step" has a failing mapping 🍌 (000ms)

*And*

the step "i get passed" has a passing mapping 🍌 (000ms)

*And*

the step "i get skipped" has a passing mapping 🍌 (000ms)

*When*

Cucumber runs the feature 🍌 (027ms)

*Then*

the scenario called "A failing step is followed by skipped steps" is reported as failing 🍌 (000ms)

*And*

the step "a background step" passes 🍌 (000ms)

*And*

the step "a passing step" passes 🍌 (000ms)

*And*

the step "a failing step" passes 🍷 (000ms)

*And*

the step "i get passed" passes 🍷 (000ms)

*And*

the step "i get skipped" is skipped 🍷 (000ms)

## Scenario: Outline with table

*Given*

the following feature: 🍷 (000ms)

```
Feature: testing scenarios
  Scenario Outline: outline with table
    When a table step:
      | first | second |
      | <first> | <second> |
    Examples:
      | first | second |
      | 1 | 2 |
```

*And*

the step "a table step:" has a passing mapping that receives a data table 🍷 (000ms)

*When*

Cucumber runs the feature 🍷 (006ms)

*Then*

the received data table array equals the following: 🍷 (000ms)

```
[["first", "second"], ["1", "2"]]
```

## Scenario: Outline with doc string

*Given*

the following feature: 🍌 (000ms)

Feature: testing scenarios

Scenario Outline: outline with doc string

When a doc string step:

"""

I am doc string in <example> example

And there are <string> string

"""

Examples:

example	string
---------	--------

first	some
-------	------

*And*

the step "a doc string step:" has a passing mapping that receives a doc string 🍌 (000ms)

*When*

Cucumber runs the feature 🍌 (005ms)

*Then*

the received doc string equals the following: 🍌 (000ms)

I am doc string in first example

And there are some string

## Scenario: Several outlines

*Given*

the following feature: 🍌 (000ms)

Feature: testing scenarios

Scenario Outline: scenario outline 1

When step <id>

Examples:

	id	
	a	
	b	

Scenario Outline: scenario outline 2

When step <id>

Examples:

	id	
	c	
	d	

*And*

the step "step a" has a passing mapping 🍌 (000ms)

*And*

the step "step b" has a passing mapping 🍌 (000ms)

*And*

the step "step c" has a passing mapping 🍌 (000ms)

*And*

the step "step d" has a passing mapping 🍌 (000ms)

*When*

Cucumber runs the feature 🍌 (009ms)

*Then*

the step "step a" passes 🍌 (000ms)

*And*

the step "step b" passes 🍌 (000ms)

*And*

the step "step c" passes 🍌 (000ms)

*And*

the step "step d" passes 🍌 (000ms)

# Scenario Statuses

## Scenario: Check scenario statuses

*Given*

a file named "features/a.feature" with: 🍌 (004ms)

Feature: some feature

Scenario: I've declared one step and it is passing

Given This step is passing

*And*

a file named "features/step\_definitions/cucumber\_steps.js" with: 🍌 (000ms)

```
var cucumberSteps = function() {  
  this.Given(/^This step is passing$/, function(callback) { callback(); });  
};  
module.exports = cucumberSteps;
```

*And*

a file named "features/support/hooks.js" with: 🍌 (000ms)

```

function checkScenarioStatuses(scenario) {
  var error;

  if (scenario.isSuccessful() !== true)
    error = "Expected isSuccessful to be true";
  else if (scenario.isFailed() !== false)
    error = "Expected isFailed to be false";
  else if (scenario.isPending() !== false)
    error = "Expected isPending to be false";
  else if (scenario.isUndefined() !== false)
    error = "Expected isUndefined to be false";
  else if (scenario.getException() !== null)
    error = "Expected exception to be null";
  else
    error = null;

  return error;
}

var hooks = function () {
  this.Around(function(scenario, runScenario) {
    var error = checkScenarioStatuses(scenario);

    runScenario(error, function(callback) {
      var error = checkScenarioStatuses(scenario);

      callback(error);
    });
  });

  this.Before(function(scenario, callback) {
    var error = checkScenarioStatuses(scenario);

    callback(error);
  });

  this.After(function(scenario, callback) {
    var error = checkScenarioStatuses(scenario);

    callback(error);
  });
};

module.exports = hooks;

```

*When*

I run `cucumber.js -f json` 🍌 (295ms)

*Then*



it outputs this json: 🍌 (000ms)

```
[
  {
    "id": "some-feature",
    "name": "some feature",
    "description": "",
    "line": 1,
    "keyword": "Feature",
    "uri": "<current-directory>/features/a.feature",
    "elements": [
      {
        "name": "I've declared one step and it is passing",
        "id": "some-feature;i've-declared-one-step-and-it-is-passing",
        "line": 3,
        "keyword": "Scenario",
        "description": "",
        "type": "scenario",
        "steps": [
          {
            "keyword": "Around ",
            "hidden": true,
            "result": {
              "duration": "<duration>",
              "status": "passed"
            },
            "match": {}
          },
          {
            "keyword": "Before ",
            "hidden": true,
            "result": {
              "duration": "<duration>",
              "status": "passed"
            },
            "match": {}
          },
          {
            "name": "This step is passing",
            "line": 4,
            "keyword": "Given ",
            "result": {
              "duration": "<duration>",
              "status": "passed"
            },
            "match": {}
          },
          {
            "keyword": "After ",
            "hidden": true,
```

```

    "result": {
      "duration": "<duration>",
      "status": "passed"
    },
    "match": {}
  },
  {
    "keyword": "Around ",
    "hidden": true,
    "result": {
      "duration": "<duration>",
      "status": "passed"
    },
    "match": {}
  }
]
}
]

```

## Scenario: Success status

### Given

a file named "features/a.feature" with: 🍌 (004ms)

Feature: some feature

Scenario: I've declared one step and it is passing  
Given This step is passing

### And

a file named "features/step\_definitions/cucumber\_steps.js" with: 🍌 (001ms)

```

var cucumberSteps = function() {
  this.Given(/^This step is passing$/, function(callback) { callback(); });
};
module.exports = cucumberSteps;

```

### And

a file named "features/support/hooks.js" with: 🍌 (001ms)

```
var hooks = function () {
  this.After(function(scenario, callback) {
    if (scenario.isSuccessful() !== true)
      error = "Expected isSuccessful to be true";
    else if (scenario.isFailed() !== false)
      error = "Expected isFailed to be false";
    else if (scenario.isPending() !== false)
      error = "Expected isPending to be false";
    else if (scenario.isUndefined() !== false)
      error = "Expected isUndefined to be false";
    else if (scenario.getException() !== null)
      error = "Expected exception to be null";
    else
      error = null;

    callback(error);
  });
};

module.exports = hooks;
```

*When*

I run `cucumber.js -f json` 🍌 (289ms)

*Then*

it outputs this json: 🍌 (000ms)

```
[
  {
    "id": "some-feature",
    "name": "some feature",
    "description": "",
    "line": 1,
    "keyword": "Feature",
    "uri": "<current-directory>/features/a.feature",
    "elements": [
      {
        "name": "I've declared one step and it is passing",
        "id": "some-feature;i've-declared-one-step-and-it-is-passing",
        "line": 3,
        "keyword": "Scenario",
        "description": "",
        "type": "scenario",
        "steps": [
          {
            "name": "This step is passing",
            "line": 4,
            "keyword": "Given ",
            "result": {
              "duration": "<duration>",
              "status": "passed"
            },
            "match": {}
          },
          {
            "keyword": "After ",
            "hidden": true,
            "result": {
              "duration": "<duration>",
              "status": "passed"
            },
            "match": {}
          }
        ]
      }
    ]
  }
]
```

## Scenario: Failed status

### Given

a file named "features/a.feature" with: 🍌 (003ms)

Feature: some feature

Scenario: I've declared one step and it is failing  
Given This step is failing

*And*

a file named "features/step\_definitions/cucumber\_steps.js" with: 🍌 (000ms)

```
var cucumberSteps = function() {  
  this.Given(/^This step is failing$/, function(callback) { callback("Fail"); });  
};  
module.exports = cucumberSteps;
```

*And*

a file named "features/support/hooks.js" with: 🍌 (000ms)

```
var hooks = function () {  
  this.After(function(scenario, callback) {  
    if (scenario.isSuccessful() !== false)  
      error = "Expected isSuccessful to be false";  
    else if (scenario.isFailed() !== true)  
      error = "Expected isFailed to be true";  
    else if (scenario.isPending() !== false)  
      error = "Expected isPending to be false";  
    else if (scenario.isUndefined() !== false)  
      error = "Expected isUndefined to be false";  
    else if (scenario.getException() !== "Fail")  
      error = "Expected exception to be 'Fail'";  
    else  
      error = null;  
  
    callback(error);  
  });  
};  
  
module.exports = hooks;
```

*When*

I run `cucumber.js -f json` 🍌 (189ms)

*Then*

it outputs this json: 🍌 (000ms)

```
[
  {
    "id": "some-feature",
    "name": "some feature",
    "description": "",
    "line": 1,
    "keyword": "Feature",
    "uri": "<current-directory>/features/a.feature",
    "elements": [
      {
        "name": "I've declared one step and it is failing",
        "id": "some-feature;i've-declared-one-step-and-it-is-failing",
        "line": 3,
        "keyword": "Scenario",
        "description": "",
        "type": "scenario",
        "steps": [
          {
            "name": "This step is failing",
            "line": 4,
            "keyword": "Given ",
            "result": {
              "error_message": "<error_message>",
              "duration": "<duration>",
              "status": "failed"
            },
            "match": {}
          },
          {
            "keyword": "After ",
            "hidden": true,
            "result": {
              "duration": "<duration>",
              "status": "passed"
            },
            "match": {}
          }
        ]
      }
    ]
  }
]
```

## Scenario: Pending status

*Given*

a file named "features/a.feature" with: 🍌 (004ms)

Feature: some feature

Scenario: I've declared one step and it is pending  
Given This step is pending

*And*

a file named "features/step\_definitions/cucumber\_steps.js" with: 🍌 (000ms)

```
var cucumberSteps = function() {  
  this.Given(/^This step is pending$/, function(callback) { callback.pending();  
});  
};  
module.exports = cucumberSteps;
```

*And*

a file named "features/support/hooks.js" with: 🍌 (001ms)

```
var hooks = function () {  
  this.After(function(scenario, callback) {  
    if (scenario.isSuccessful() !== false)  
      error = "Expected isSuccessful to be false";  
    else if (scenario.isFailed() !== false)  
      error = "Expected isFailed to be false";  
    else if (scenario.isPending() !== true)  
      error = "Expected isPending to be true";  
    else if (scenario.isUndefined() !== false)  
      error = "Expected isUndefined to be false";  
    else if (scenario.getException() !== null)  
      error = "Expected exception to be null";  
    else  
      error = null;  
  
    callback(error);  
  });  
};  
  
module.exports = hooks;
```

*When*

I run `cucumber.js -f json` 🍌 (295ms)

*Then*

it outputs this json: 🍌 (001ms)

```
[
  {
    "id": "some-feature",
    "name": "some feature",
    "description": "",
    "line": 1,
    "keyword": "Feature",
    "uri": "<current-directory>/features/a.feature",
    "elements": [
      {
        "name": "I've declared one step and it is pending",
        "id": "some-feature;i've-declared-one-step-and-it-is-pending",
        "line": 3,
        "keyword": "Scenario",
        "description": "",
        "type": "scenario",
        "steps": [
          {
            "name": "This step is pending",
            "line": 4,
            "keyword": "Given ",
            "result": {
              "status": "pending"
            },
            "match": {}
          },
          {
            "keyword": "After ",
            "hidden": true,
            "result": {
              "duration": "<duration>",
              "status": "passed"
            },
            "match": {}
          }
        ]
      }
    ]
  }
]
```

## Scenario: Undefined status

*Given*

a file named "features/a.feature" with: 🍌 (005ms)



Feature: some feature

Scenario: I've declared one step and it is undefined  
Given This step is undefined

*And*

a file named "features/step\_definitions/cucumber\_steps.js" with: 🍌 (001ms)

```
var cucumberSteps = function() {  
};  
module.exports = cucumberSteps;
```

*And*

a file named "features/support/hooks.js" with: 🍌 (001ms)

```
var hooks = function () {  
  this.After(function(scenario, callback) {  
    if (scenario.isSuccessful() !== false)  
      error = "Expected isSuccessful to be false";  
    else if (scenario.isFailed() !== false)  
      error = "Expected isFailed to be false";  
    else if (scenario.isPending() !== false)  
      error = "Expected isPending to be false";  
    else if (scenario.isUndefined() !== true)  
      error = "Expected isUndefined to be true";  
    else if (scenario.getException() !== null)  
      error = "Expected exception to be null";  
    else  
      error = null;  
  
    callback(error);  
  });  
};  
  
module.exports = hooks;
```

*When*

I run `cucumber.js -f json` 🍌 (296ms)

*Then*

it outputs this json: 🍌 (000ms)

```
[
  {
    "id": "some-feature",
    "name": "some feature",
    "description": "",
    "line": 1,
    "keyword": "Feature",
    "uri": "<current-directory>/features/a.feature",
    "elements": [
      {
        "name": "I've declared one step and it is undefined",
        "id": "some-feature;i've-declared-one-step-and-it-is-undefined",
        "line": 3,
        "keyword": "Scenario",
        "description": "",
        "type": "scenario",
        "steps": [
          {
            "name": "This step is undefined",
            "line": 4,
            "keyword": "Given ",
            "result": {
              "status": "undefined"
            },
            "match": {}
          },
          {
            "keyword": "After ",
            "hidden": true,
            "result": {
              "duration": "<duration>",
              "status": "passed"
            },
            "match": {}
          }
        ]
      }
    ]
  }
]
```

## Scenario: Simultaneous statuses

*Given*

a file named "features/a.feature" with: 🍌 (004ms)

Feature: some feature

Scenario: I've declared one step and it is undefined

Given This step is pending

And This step is undefined

*And*

a file named "features/step\_definitions/cucumber\_steps.js" with: 🍌 (001ms)

```
var cucumberSteps = function() {  
  this.Given(/^This step is pending$/, function(callback) { callback.pending();  
});  
};  
module.exports = cucumberSteps;
```

*And*

a file named "features/support/hooks.js" with: 🍌 (000ms)

```
var hooks = function () {  
  this.After(function(scenario, callback) {  
    if (scenario.isSuccessful() !== false)  
      error = "Expected isSuccessful to be false";  
    else if (scenario.isFailed() !== true)  
      error = "Expected isFailed to be true";  
    else if (scenario.isPending() !== true)  
      error = "Expected isPending to be true";  
    else if (scenario.isUndefined() !== true)  
      error = "Expected isUndefined to be true";  
    else  
      error = null;  
  
    callback(error);  
  });  
  
  this.After(function(scenario, callback) {  
    callback("fail");  
  });  
};  
  
module.exports = hooks;
```

*When*

I run `cucumber.js -f json` 🍌 (299ms)

*Then*

it outputs this json: 🍌 (000ms)

```
[
  {
    "id": "some-feature",
    "name": "some feature",
    "description": "",
    "line": 1,
    "keyword": "Feature",
    "uri": "<current-directory>/features/a.feature",
    "elements": [
      {
        "name": "I've declared one step and it is undefined",
        "id": "some-feature;i've-declared-one-step-and-it-is-undefined",
        "line": 3,
        "keyword": "Scenario",
        "description": "",
        "type": "scenario",
        "steps": [
          {
            "name": "This step is pending",
            "line": 4,
            "keyword": "Given ",
            "result": {
              "status": "pending"
            },
            "match": {}
          },
          {
            "name": "This step is undefined",
            "line": 5,
            "keyword": "And ",
            "result": {
              "status": "undefined"
            },
            "match": {}
          },
          {
            "keyword": "After ",
            "hidden": true,
            "result": {
              "error_message": "fail",
              "duration": 351161,
              "status": "failed"
            },
            "match": {}
          },
          {
            "keyword": "After ",
            "hidden": true,
            "result": {
              "duration": 319244,
```

```

        "status": "passed"
      },
      "match": {}
    }
  ]
}
]

```

## Step definition callbacks

### Scenario: fail with single-parameter error (Node.js style)

*Given*

a scenario with: 🍌 (000ms)

When I divide 10 by 0

*And*

the step "I divide 10 by 0" has a mapping failing via a Node-like error construct 🍌 (000ms)

*When*

Cucumber executes the scenario 🍌 (009ms)

*Then*

the scenario fails 🍌 (000ms)

### Scenario: succeed with promise 🍌

*Given*

a promise-based mapping 🍌 (000ms)

*When*

Cucumber executes that mapping 🍌 (000ms)

*Then*

the mapping is run 🍌 (000ms)

*And*

the scenario passes 🍌 (000ms)

## Scenario: fail with promise 🍄

*Given*

a failing promise-based mapping 🍄 (000ms)

*When*

Cucumber executes that mapping 🍄 (000ms)

*Then*

the mapping is run 🍄 (000ms)

*And*

the scenario fails 🍄 (000ms)

## Scenario: succeed synchronously 🍄

*Given*

a passing synchronous mapping 🍄 (000ms)

*When*

Cucumber executes that mapping 🍄 (000ms)

*Then*

the mapping is run 🍄 (000ms)

*And*

the scenario passes 🍄 (000ms)

## Strict mode

Using the `--strict` flag will cause cucumber to fail unless all the step definitions have been defined.

## Background 🍄

*Given*

a file named "features/a.feature" with: 🗨️

```
Feature: Missing
  Scenario: Missing
    Given this step passes
```

## Scenario: Succeed scenario with implemented step with --strict

*Given*

a file named "features/a.feature" with: 🗨️ (003ms)

```
Feature: Missing
  Scenario: Missing
    Given this step passes
```

*Given*

a file named "features/step\_definitions/cucumber\_steps.js" with: 🗨️ (000ms)

```
var cucumberSteps = function() {
  this.When(/^this step passes$/, function(callback) { callback(); });
};
module.exports = cucumberSteps;
```

*When*

I run `cucumber.js -f progress features/a.feature --strict` 🗨️ (292ms)

*Then*

it outputs this text: 🗨️ (000ms)

```
.

1 scenario (1 passed)
1 step (1 passed)
```

*And*

the exit status should be 0 🗨️ (000ms)

## Scenario: Fail scenario with undefined step with --strict

### *Given*

a file named "features/a.feature" with: 🍌 (003ms)

Feature: Missing

Scenario: Missing

Given this step passes

### *When*

I run `cucumber.js -f progress features/a.feature --strict` 🍌 (292ms)

### *Then*

it outputs this text: 🍌 (000ms)

U

1 scenario (1 undefined)

1 step (1 undefined)

You can implement step definitions for undefined steps with these snippets:

```
this.Given(/^this step passes$/, function (callback) {  
  // Write code here that turns the phrase above into concrete actions  
  callback.pending();  
});
```

### *And*

the exit status should be 1 🍌 (000ms)

## **Scenario: Fail Scenario with pending step with --strict**



*Given*

a file named "features/a.feature" with: 🍌 (003ms)

Feature: Missing

Scenario: Missing

Given this step passes

*Given*

a file named "features/step\_definitions/cucumber\_steps.js" with: 🍌 (001ms)

```
var cucumberSteps = function() {  
  this.Given(/^this step passes$/, function(callback) { callback.pending(); });  
};  
module.exports = cucumberSteps;
```

*When*

I run `cucumber.js -f progress features/a.feature --strict` 🍌 (214ms)

*Then*

it outputs this text: 🍌 (000ms)

P

1 scenario (1 pending)

1 step (1 pending)

*And*

the exit status should be 1 🍌 (000ms)

## Scenario: Fail scenario with undefined step with -S

### *Given*

a file named "features/a.feature" with: 🍌 (003ms)

Feature: Missing

Scenario: Missing

Given this step passes

### *When*

I run `cucumber.js -f progress features/a.feature -S` 🍌 (244ms)

### *Then*

it outputs this text: 🍌 (000ms)

U

1 scenario (1 undefined)

1 step (1 undefined)

You can implement step definitions for undefined steps with these snippets:

```
this.Given(/^this step passes$/, function (callback) {  
  // Write code here that turns the phrase above into concrete actions  
  callback.pending();  
});
```

### *And*

the exit status should be 1 🍌 (000ms)

## **Scenario: Fail Scenario with pending step with -S**

*Given*

a file named "features/a.feature" with: 🍌 (002ms)

Feature: Missing

Scenario: Missing

Given this step passes

*Given*

a file named "features/step\_definitions/cucumber\_steps.js" with: 🍌 (001ms)

```
var cucumberSteps = function() {  
  this.Given(/^this step passes$/, function(callback) { callback.pending(); });  
};  
module.exports = cucumberSteps;
```

*When*

I run `cucumber.js -f progress features/a.feature -S` 🍌 (301ms)

*Then*

it outputs this text: 🍌 (000ms)

P

1 scenario (1 pending)

1 step (1 pending)

*And*

the exit status should be 1 🍌 (000ms)

## Summary Formatter

In order to get a quick overview of Cucumber test run

Developers should be able to see a high level summary of the scenarios that were executed

### Scenario: Output summary for a feature with no scenarios

*Given*

a file named "features/a.feature" with: 🍌 (003ms)

```
Feature: some feature
```

*When*

I run `cucumber.js -f summary` 🍌 (213ms)

*Then*

it outputs this text: 🍌 (000ms)

```
0 scenarios
0 steps
```

## Scenario: Summary formatter hides around, before and after hooks

*Given*

a file named "features/a.feature" with: 🍌 (002ms)

```
Feature: some feature
```

```
Scenario: I've declared one step which passes
  Given This step is passing
```

*And*

a file named "features/step\_definitions/cucumber\_steps.js" with: 🍌 (001ms)

```
var cucumberSteps = function() {
  this.Given(/^This step is passing$/, function(callback) { callback(); });
};
module.exports = cucumberSteps;
```

*And*

a file named "features/support/hooks.js" with: 🍌 (001ms)

```
var hooks = function () {
  this.Before(function(callback) {
    callback();
  });

  this.After(function(callback) {
    callback();
  });

  this.Around(function(runScenario) {
    runScenario(function(callback) {
      callback();
    });
  });
};

module.exports = hooks;
```

*When*

I run `cucumber.js -f summary` 🍌 (291ms)

*Then*

it outputs this text: 🍌 (000ms)

```
1 scenario (1 passed)
1 step (1 passed)
```

## User logs into the system

In order to be able to use eraNET components

As a user

I want to log in to the system

**Scenario: Unlogged user sees welcome page with login** 🍌

*Given*

I have not logged or have logged out before 🕒 (000ms)

*When*

I visit initial page 🕒 (000ms)

*Then*

Default app should be loaded 🕒 (000ms)

*And*

I should see login request 🕒 (000ms)

*And*

I should not see any username 🕒 (000ms)

### **Scenario: Minimal user sees welcome page with its username and logout 🕒**

*Given*

I have logged as guest named "Guest" 🕒 (000ms)

*When*

I visit initial page 🕒 (000ms)

*Then*

Default app should be loaded 🕒 (000ms)

*And*

I should see logout request 🕒 (000ms)

*And*

I should see "Guest" as username 🕒 (000ms)

### **Scenario: Unlogged user logs in 🕒**

*Given*

I have not logged or have logged out before 🗨️ (000ms)

*And*

I have visited initial page 🗨️ (000ms)

*And*

I have seen login request 🗨️ (000ms)

*When*

I ask to log in 🗨️ (000ms)

*Then*

I should be taken to login page 🗨️ (000ms)

### **Scenario: Logged user logs out 🗨️**

*Given*

I have logged as guest named "Guest" 🗨️ (000ms)

*And*

I have visited initial page 🗨️ (000ms)

*And*

I have seen logout request 🗨️ (000ms)

*When*

I ask to log out 🗨️ (000ms)

*Then*

I should be taken to logout page 🗨️ (000ms)

### **Scenario: Disconnected user sees welcome page and reconnect option 🗨️**

*Given*

I have had a broken connection with api site 🐞 (000ms)

*When*

I visit initial page 🐞 (000ms)

*Then*

Default app should be loaded 🐞 (000ms)

*And*

I should see reconnect request 🐞 (000ms)

*And*

I should not see any username 🐞 (000ms)

### **Scenario: User sees 'connecting' while connecting 🐞**

*Given*

I have had lagging api site 🐞 (000ms)

*When*

I visit initial page 🐞 (000ms)

*Then*

I should see connecting message 🐞 (000ms)

*And*

I should not see any username 🐞 (000ms)

## **World constructor callback with object**



It is possible for the World constructor function to tell Cucumber to use another object than itself as the World instance:

```
this.World = function WorldConstructor(callback) {  
  var myCustomWorld = { dance: function() { /* ... */ } };  
  callback(myCustomWorld); // tell Cucumber to use myCustomWorld  
  // as the world object.  
};
```

If no parameter is passed to the callback, the WorldConstructor instance will be used by Cucumber:

```
this.World = function WorldConstructor(callback) {  
  var myCustomWorld = {};  
  callback(); // could have been written callback(this);  
};
```

## Scenario: scenario calling function on explicit world instance

*Given*

a custom World constructor calling back with an explicit object 🍌 (000ms)

*When*

Cucumber executes a scenario that calls a function on the explicit World object 🍌 (005ms)

*Then*

the feature passes 🍌 (000ms)

*And*

the explicit World object function should have been called 🍌 (000ms)

## step definition snippets

### Scenario: escape regexp special characters 🍌

### Given

a scenario with: 🍌 (000ms)

```
Given I am a happy veggie \o/  
When I type -[]{}()*+?.\^$|#/
```

### When

Cucumber executes the scenario 🍌 (006ms)

### Then

a "Given" step definition snippet for /^I am a happy veggie \o\$/ is suggested 🍌 (000ms)

### Then

a "When" step definition snippet for /^I type \-[]{}()\*+?.\^\$|#/ is suggested 🍌  
[small right]#(000ms)#

## Scenario: step matching groups 🍌

### Given

a scenario with: 🍌 (000ms)

```
Given I have 5 "kekiri" cucumbers
```

### When

Cucumber executes the scenario 🍌 (004ms)

### Then

a "Given" step definition snippet for /^I have (\d+) "([^\"]\*)" cucumbers\$/ with 2 parameters  
is suggested 🍌 (000ms)

## Scenario: multiple matching groups 🍌

#### Given

a scenario with: 🍌 (000ms)

Given I have some "hekirī", "wild" and "regular" cucumbers

#### When

Cucumber executes the scenario 🍌 (004ms)

#### Then

a "Given" step definition snippet for `/^I have some "(<strong class="^">)", "([^\"]</strong>)" and "([^\"]*)" cucumbers$/` with 3 parameters is suggested `<font name="fa"> 🍌 </font> <span class="small right">(000ms)</span>`

## Scenario: outline steps with examples

#### Given

a scenario with: 🍌 (000ms)

Given I have <some> cucumbers

#### When

Cucumber executes the scenario 🍌 (005ms)

#### Then

a "Given" example step definition snippet for `/^I have "(.*)" cucumbers$/` with 1 parameters is suggested 🍌 (000ms)

## step definitions with string pattern

Some people don't like Regexp as step definition patterns.  
Cucumber also supports string-based patterns.

## Scenario: step definition with string-based pattern

*Given*

a mapping with a string-based pattern 🍷 (000ms)

*When*

Cucumber executes a scenario using that mapping 🍷 (004ms)

*Then*

the feature passes 🍷 (000ms)

*And*

the mapping is run 🍷 (000ms)

## Scenario: step definition with string-based pattern and parameters

*Given*

a mapping with a string-based pattern and parameters 🍷 (000ms)

*When*

Cucumber executes a scenario that passes arguments to that mapping 🍷 (003ms)

*Then*

the feature passes 🍷 (000ms)

*And*

the mapping is run 🍷 (000ms)

*And*

the mapping receives the arguments 🍷 (000ms)

## Scenario: step definition with string-based pattern and multiple parameters 🍷

*Given*

a mapping with a string-based pattern and multiple parameters 🍌 (000ms)

*When*

Cucumber executes a scenario that passes multiple arguments to that mapping 🍌 (003ms)

*Then*

the feature passes 🍌 (000ms)

*And*

the mapping is run 🍌 (000ms)

*And*

the mapping receives the multiple arguments 🍌 (000ms)