

Lesson 3 Answers

Matching Steps

1 - Reflection questions

1.1 - Purpose

We need regular expressions to link automation code to plain text Gherkin steps. Regular expressions gives us flexibility to match variations of steps.

1.2 - Benefits of regular expressions

Regular expressions can be used to define synonyms, or deal with plural and singular. This makes it easier to design a flexible domain language that reads well.

This flexibility also makes it possible to reuse step definitions across different Gherkin steps with slight variations. This means fewer step definitions to maintain.

1.3 - Capture groups

A regular expression *capture group* is a pair of parenthesis. It lets us capture interesting part of a piece of text. We can use capture groups to pass arguments to a step definition.

1.4 - Wildcards

Wildcards can be used to match different variations of text. For example, the `.` will match any character. A `\d` will match any digit.

1.5 -Test runs

If we make a lot of changes between each time we run our tests, it can be difficult and time consuming to identify the cause of a failing test.

This is why we prefer to run our tests as often as possible. This means our tests have to be *fast*. We'll learn more about how to keep tests fast in a future lesson.

2 - Exercises

2.1

There are several possible answers. Here are some of them:

- *Lucy shouts back to (Sean|Sarah)*
- *Lucy shouts back to (\w+)*
- *.**

2.2

- *Sarah has \d+ cucumbers in her bag*

2.3

They all match - except for the 3rd:

- *Sarah buys -3 cucumbers*

A slight modification to the regular expression would make it match them all:

- *Sarah buys (no|-?\d+) cucumbers?*

We highly recommend <http://rubular.com/> and <http://scriptular.com/> for playing with regular expressions!