BDD with Cucumber & Gehrkin

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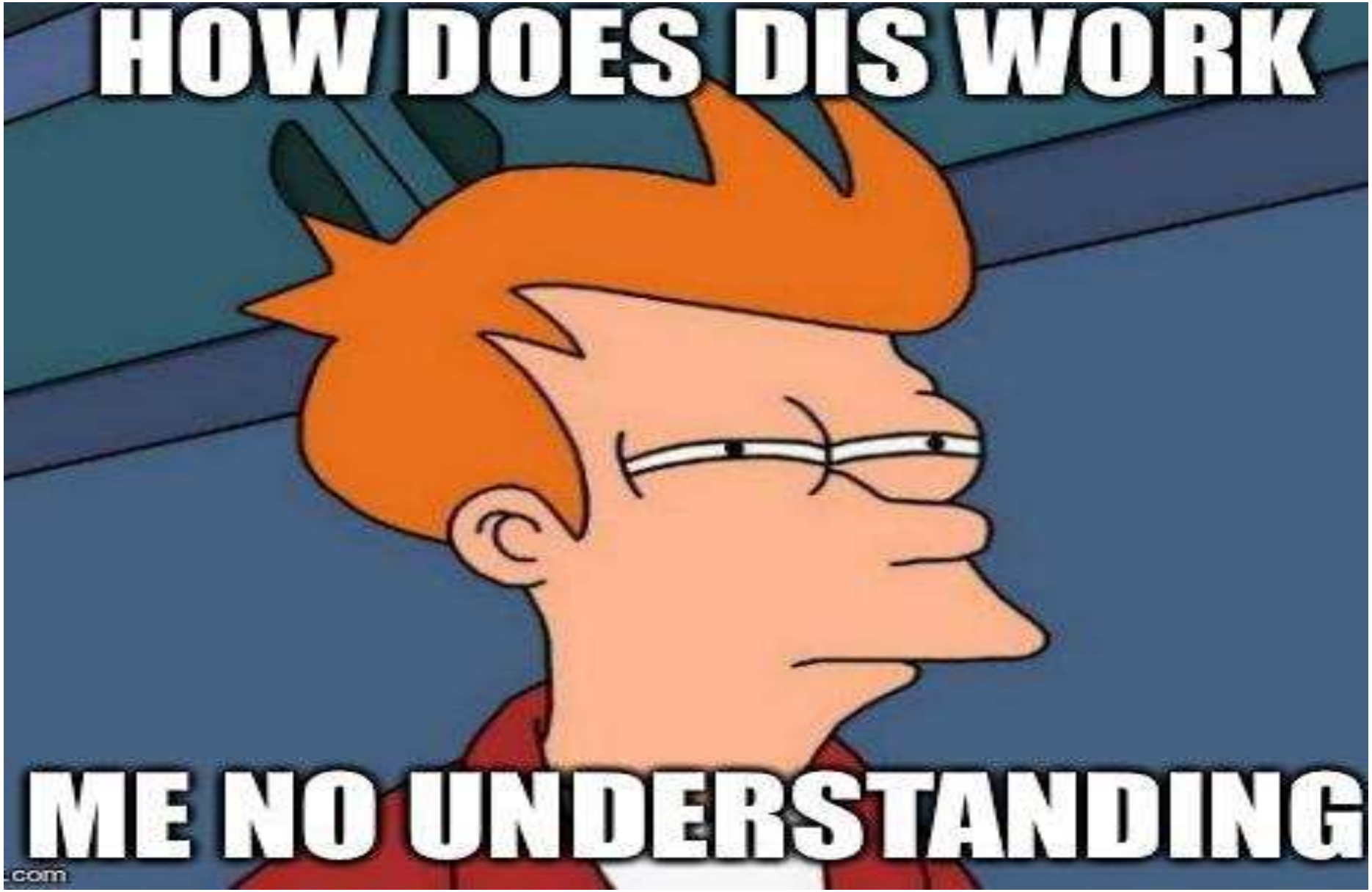
Mehdi Foudhaili

ALCOR Academy

What is Cucumber & Gherkin

- **Cucumber** is a testing tool that supports Behavior Driven Development
- It defines application beahviors/features using simple «English» text, defined by a language called **Gherkin**
- It allows automation functional validation that is easily read and understood.
- Initially implemented in Ruby and then extended to Java.


HOW DOES DIS WORK
ME NO UNDERSTANDING

How does it work?

- We specify **expected behavior** by defining **features and scenarios**.
- The **feature** describes (part of) a feature of your application.
- The **scenarios** describe different ways users can use this feature.
- The **scenarios** consists of a list of **steps**.
- The **steps** are matched to **step definitions**, which map the plain text steps to programming code
- The plain text steps are defined in the **Gherkin** language.
- **Gherkin** allows *developers and business stakeholders to describe and share the expected behaviour of the application* and should not describe the implementation.

CSS Versicherung

How does it work?

A simple feature file consists of the following keywords / parts

- **Feature** − Name of the feature under test.
- **Description** (optional) − Describe about feature under test.
- **Scenario** − What is the test scenario.
- **Given** − Prerequisite before the test steps get executed.
- **When** − Specific condition which should match in order to execute the next step.
- **Then** − What should happen
- **AND** - conjunction between conditions. **AND** can be used with any other keywords like **GIVEN**, **WHEN** and **THEN**.

CSS Versicherung

Example: Feature specified with Cucumber / Gherkin

```
Feature: Stock Portfolio
  Optional Manage a stock portfolio and print current state

  Scenario:
    Given I bought 1000 shares of "Old School Waterfall Software LTD" on "14/02/1990"
    And I bought 400 shares of "Crafter Masters Limited" on "09/06/2016"
    And I bought 700 shares of "XP Practitioners Incorporated" on "10/12/2018"
    And I sold 500 shares of "Old School Waterfall Software LTD" on "11/12/2018"
    And the current share value of "Old School Waterfall Software LTD" is $5.75
    And the current share value of "Crafter Masters Limited" is $17.25
    And the current share value of "XP Practitioners Incorporated" is $25.55
    When I print my current portfolio
    Then the outcome displayed should be:
      """
      company | shares | current price | current value | last operation
      Crafter Masters Limited | 400 | $17.25 | $6'900.00 | sold 400 on 09/06/2016
      Old School Waterfall Software LTD | 500 | $5.75 | $2'875.00 | sold 500 on 11/12/2018
      XP Practitioners Incorporated | 700 | $25.55 | $17'885.00 | sold 700 on 10/12/2018

      """
```

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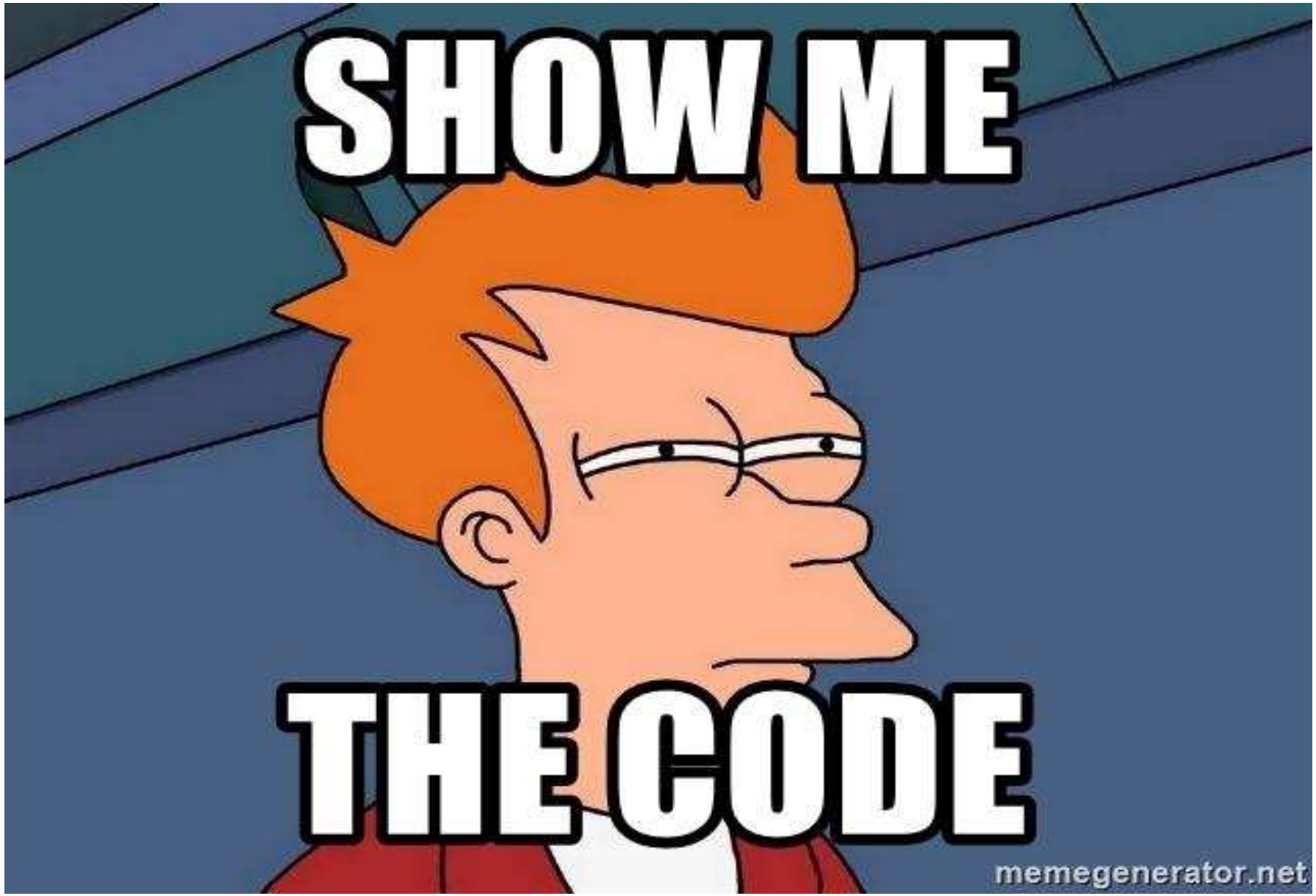
when I print my current portfolio
then the outcome displayed should be:

company	shares	current price	current value	last operation
Old School Waterfall Software LTD	500	$5.75	$2,875.00	sold 500 on 11/12/2018
Crafter Masters Limited	400	$17.25	$6,900.00	bought 400 on 09/06/2016
XP Practitioners Incorporated	700	$25.55	$17,885.00	bought 700 on 10/12/2018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ASK
QUESTIONS
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THANK YOU FOR YOUR ATTENTION!

Mehdi Foudhaili

Email: foudhaili.mehdi@gmail.com

LinkedIn: https://de.linkedin.com/in/mehdi-foudhaili-58a974a2

Literature & References

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