



Testing Spring

Beginner to Guru

TDD 1 - Multi Currency Money



Multi Currency Money

- Consider this Single currency report, total is easy

Stock	Shares	Price	Total
IBM	1000	25	25,000
GE	400	100	40,000
		Total	65,000





Multi Currency Money

- Consider this Multi-Currency report, total needs exchange rate
- Assume exchange rate of 1.5 from CHF to USD

Stock	Shares	Price	Total
IBM	1000	25 - USD	25,000 - USD
GE	400	150 - CHF	40,000 - CHF
		Total	65,000 - USD





Technical Requirements For Report

- Need to be able to add amounts in two different currencies and convert result given a set of exchange rates
- Need to be able to multiply an amount by a number (number of shares) and receive an amount





Setting Up Our TDD To-Do List

- Going forward we will setup a To-Do list.
- Normal - On the list
- **Bold** - What we are working on
- ~~Strike Through~~ - Completed

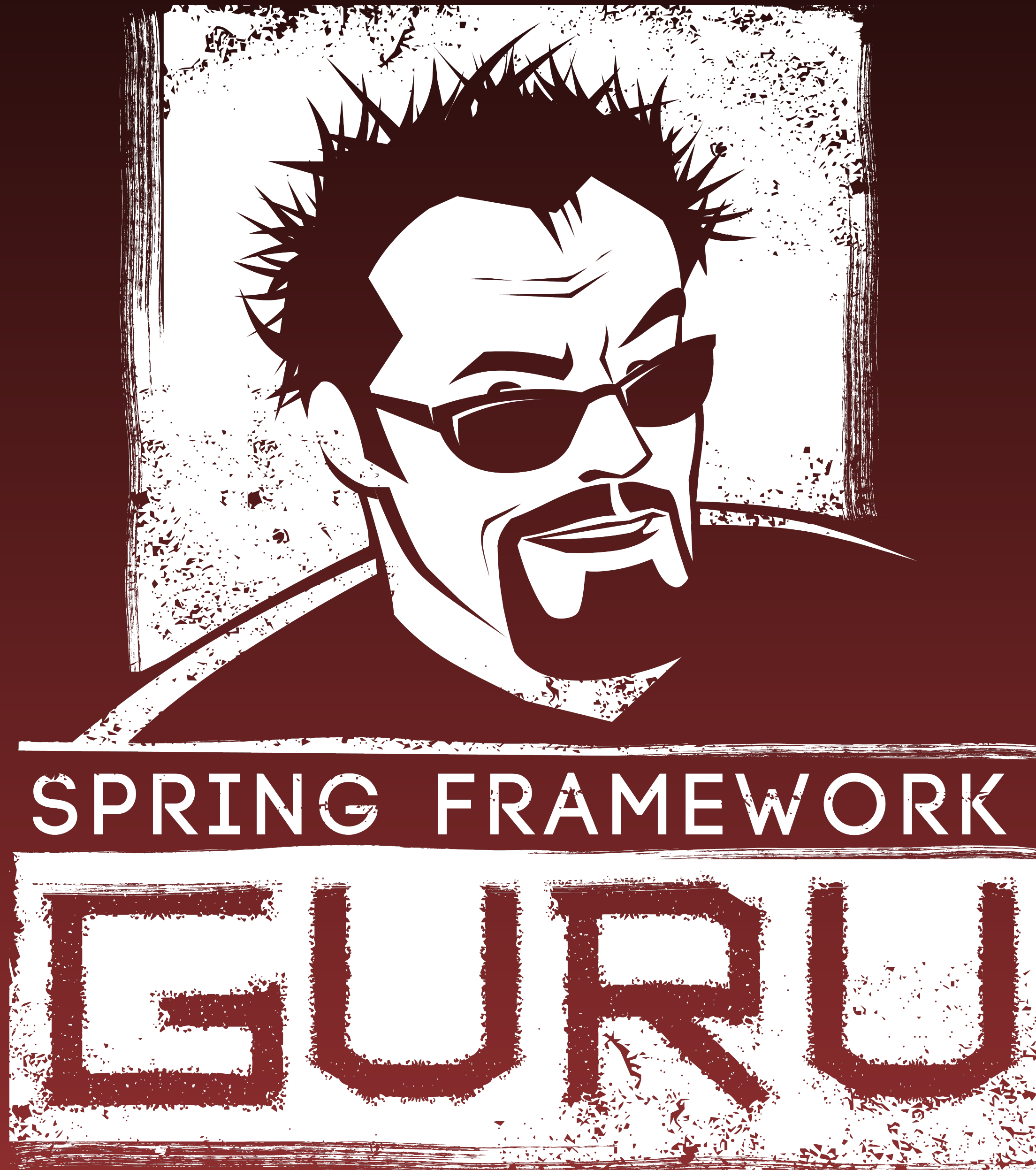




TDD To-Do List

- $\$5 + 10 \text{ CHF} = \10 (with rate of 2:1)
- **$\$5 * 2 = \10**
- Make “amount” private
- Dollar side effects?
- Money Rounding?







TDD To-Do List

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Summary

- Made List of Test we needed - To-Do List
- Told a story about how we wanted to view one operation (in test)
- Ignored details of JUnit
- Made test compile with stubs (minimal code)
- Made test run with awful AWFUL code
- Gradually updated working code - replacing constants with variables



