



# Testing Spring

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Beginner to Guru

TDD 8 - Making Objects



## 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?
- ~~equals()~~
- hashCode()
- Equal Null
- Equal Object
- ~~$5 \text{ CHF} * 2 = 10 \text{ CHF}$~~
- **Dollar/Franc Duplication**
- ~~Common equals()~~
- Common times()
- ~~Compare Francs With Dollars~~
- Currency

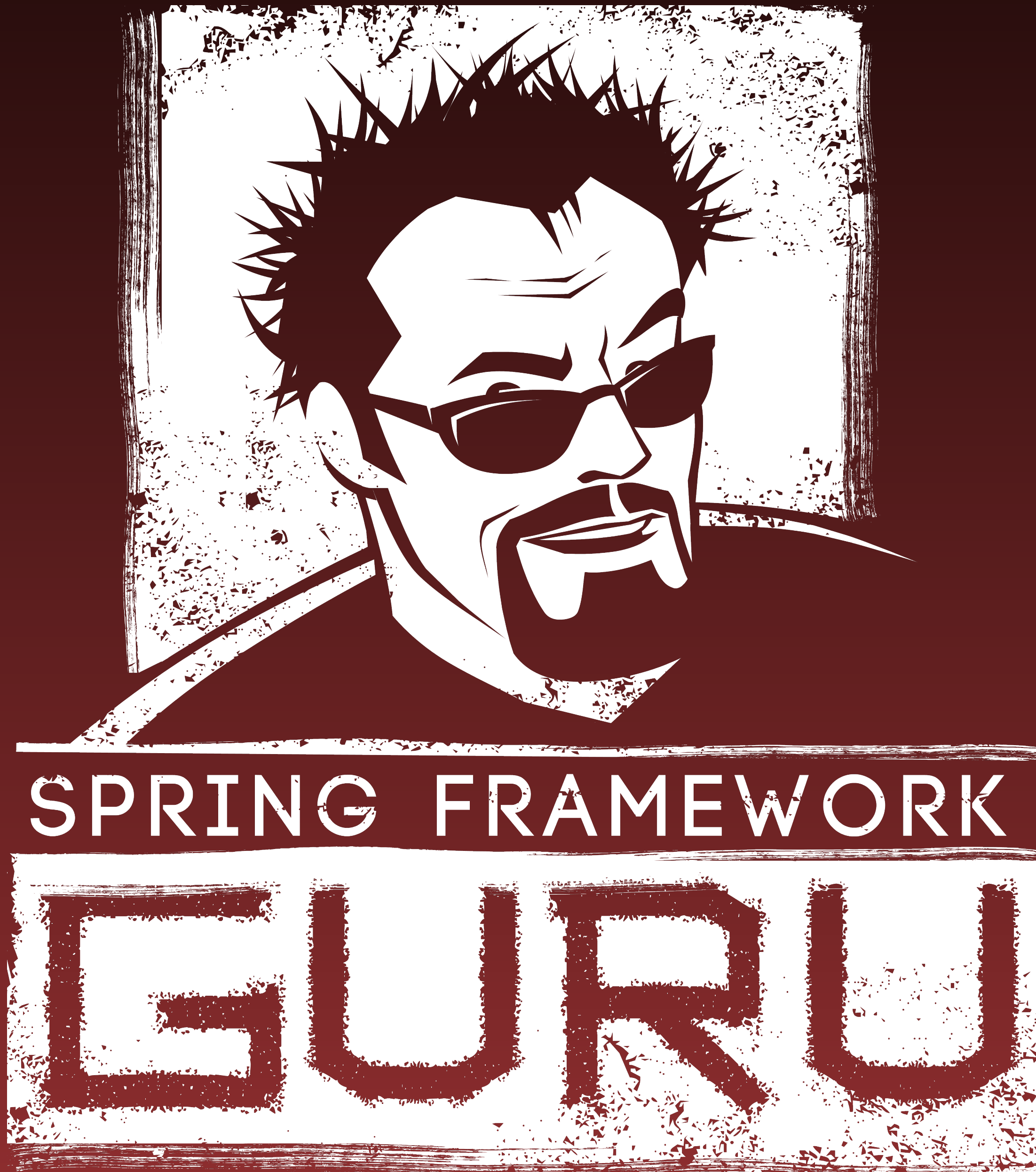




## Makin' Objects

- The two subclasses of Money (Dollar & Franc) are nearly the same
- Goal is to refactor them out of existence - in a TDD way
- First step is to reduce the direct references to the subclasses
- We can create a factory method on Money to return Dollars and Francs
- This is an incremental step







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- $\$5 + 10 \text{ CHF} = \$10$  (with rate of 2:1)
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- ~~Make "amount" private~~
- ~~Dollar side effects?~~
- Money Rounding?
- ~~equals()~~
- hashCode()
- Equal Null
- Equal Object
- ~~$5 \text{ CHF} * 2 = 10 \text{ CHF}$~~
- ~~Dollar/Franc Duplication~~
- ~~Common equals()~~
- Common times()
- ~~Compare Francs With Dollars~~
- Currency
- Delete testFrancMultiplication?





