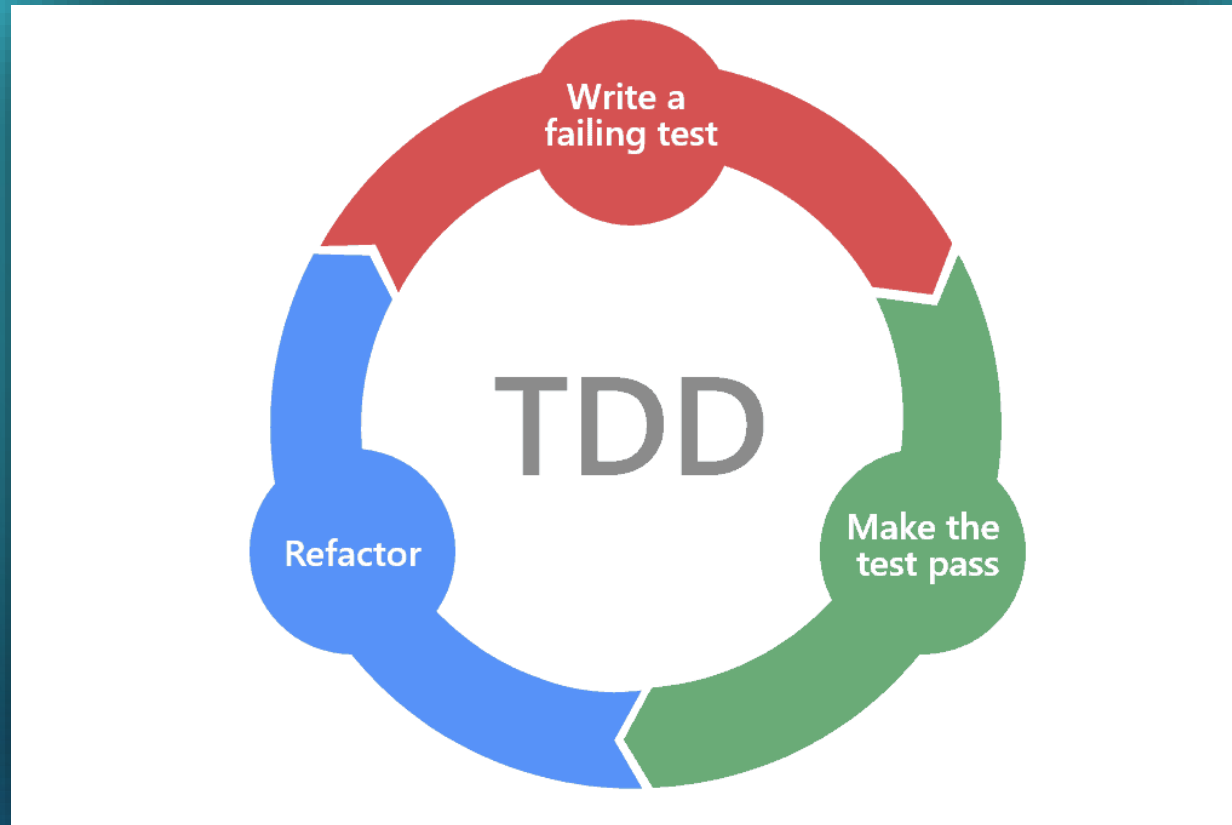# TEST-DRIVEN DEVELOPMENT

FABIAN HEPKE TINF19B4

# STRUCTURE
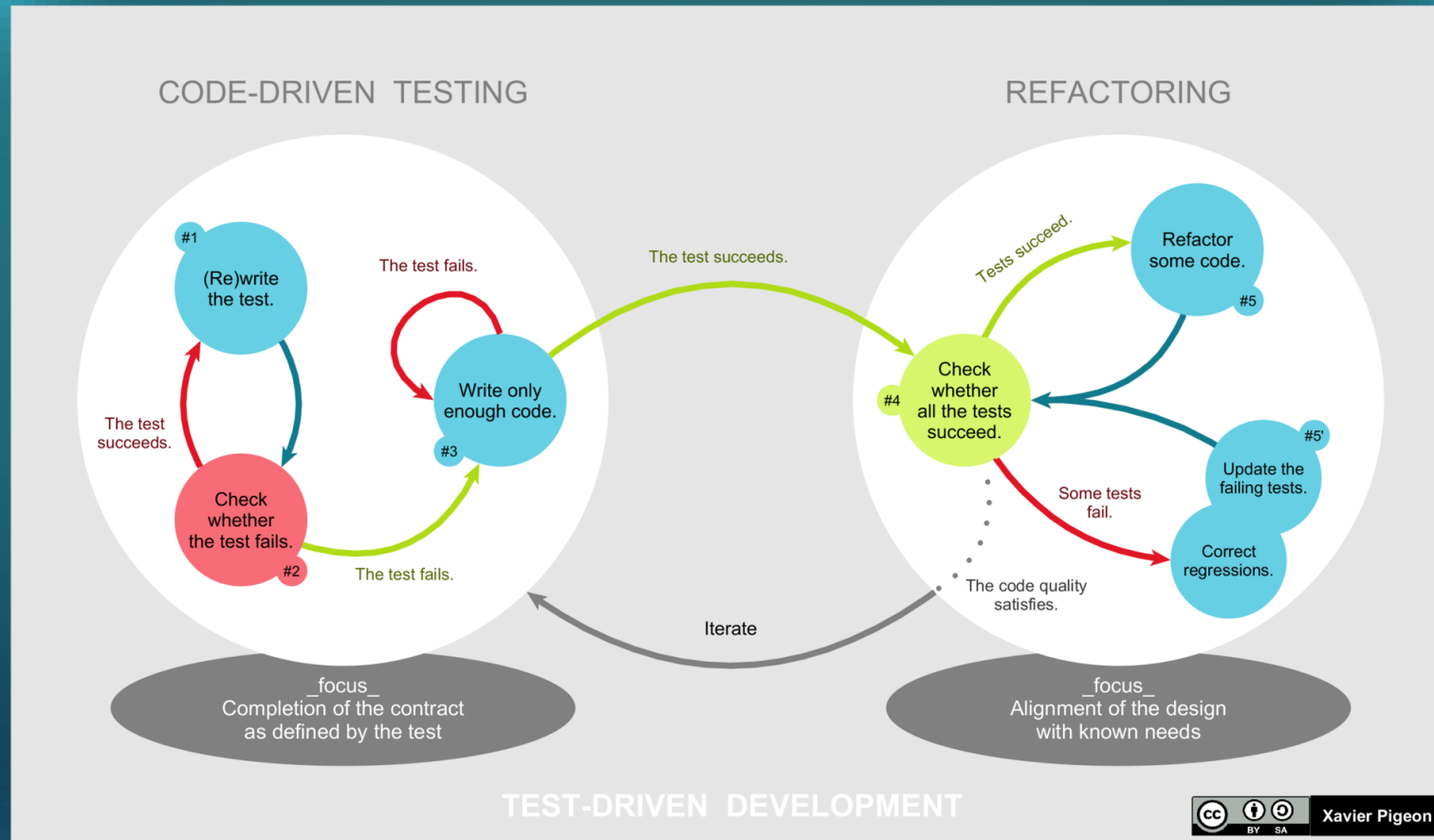
- What is Test-driven development?

- advantages/disadvantages

- Example

# WHAT IS TEST-DRIVEN DEVELOPMENT?

# WHAT IS TEST-DRIVEN DEVELOPMENT?



https://en.wikipedia.org/wiki/Test-driven_development#/media/File:TDD_Global_Lifecycle.png

# ADVANTAGES / DISADVANTAGES

| Advantages | Disadvantages |
| --- | --- |
| • automated tests for the whole code | • much practice is necessary |
| • easier to find problems | • more time → more budget |
| • better code structure quality | • tdd does not replace all tests |
| • more discipline | |
| • better test cases (no white box tests) | |
| • less effort | |

# EXAMPLE

- Calculator class

- Two simple methods

  - power(double base, int exponent)

  - isPositive(double i)