4 Design Principles

by Kent Beck

Damien Cassou, Stéphane Ducasse and Luc Fabresse

WXSYY





"Dady" Kent Beck

- Extreme Programming
- Agile Manifesto
- Test-Driven Development



The 4 Design Principles

- 1. Passes the tests
- 2. Reveals intention
- 3. No duplication
- 4. Fewest elements

I. Passes the Tests

- your code must work as intended
- the tests make sure that's always true



II. Reveals Intention

- the code must be easy to understand
- always remember that:
 - you spend most of your time reading/browsing code
 - o if you can't understand, you can't modify

III. No duplication ("aka." D.R.Y.)

- Don't Repeat Yourself
- say things "Once and only once"
- create abstractions

IV. Fewest Elements ("aka." no over-engineering)

- don't design future requirements
- you don't know what you will need tomorrow, don't design for it today
- this only makes code harder to change

The 4 Design Principles

- 1. Passes the tests
- 2. Reveals intention
- 3. No duplication
- 4. Fewest elements



A course by



and



in collaboration with











