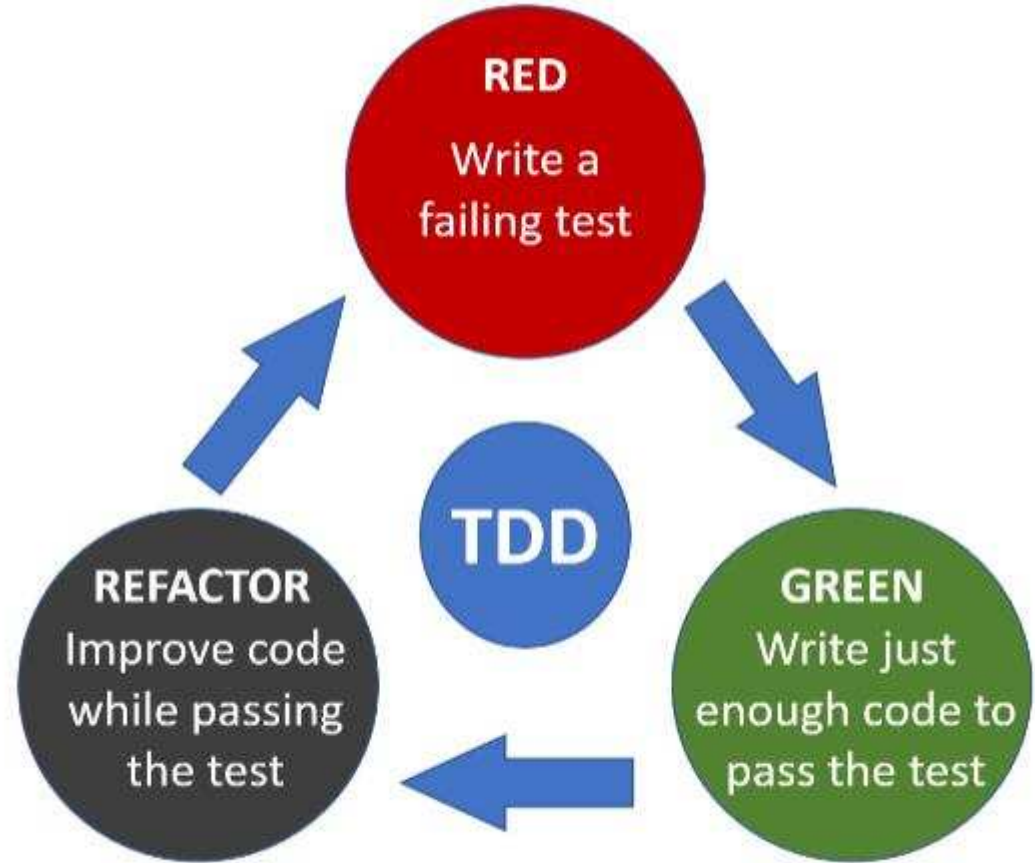


Alcor academy
Training programme
Test driven development

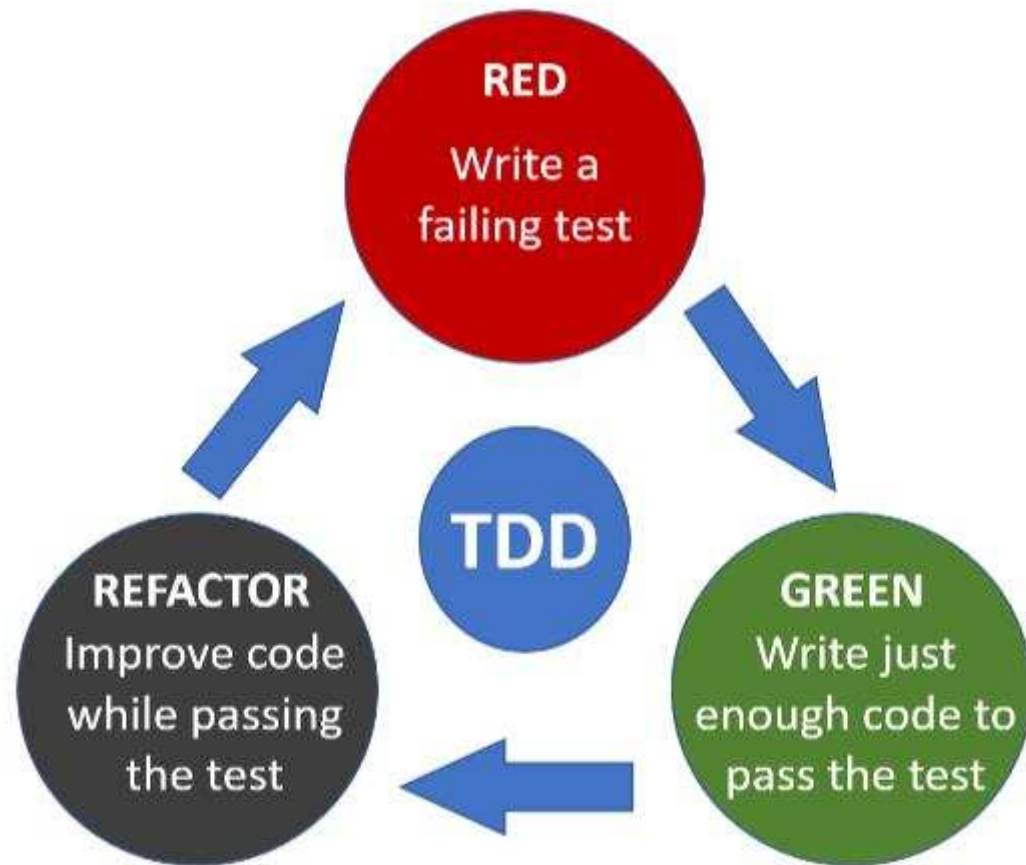
Geir Ingi Sigurðsson

Classic TDD

1. You are not allowed to write any production code unless it is for making a failing unit test pass
2. You are not allowed to write any more of a unit test than is sufficient to fail. (compilation failure is a failure)
3. You are not allowed to write any more production code than is sufficient to pass the one failing unit test.



Baby steps



Fake implementation

When you hard code exactly the value you need to pass the test

Obvious implementation

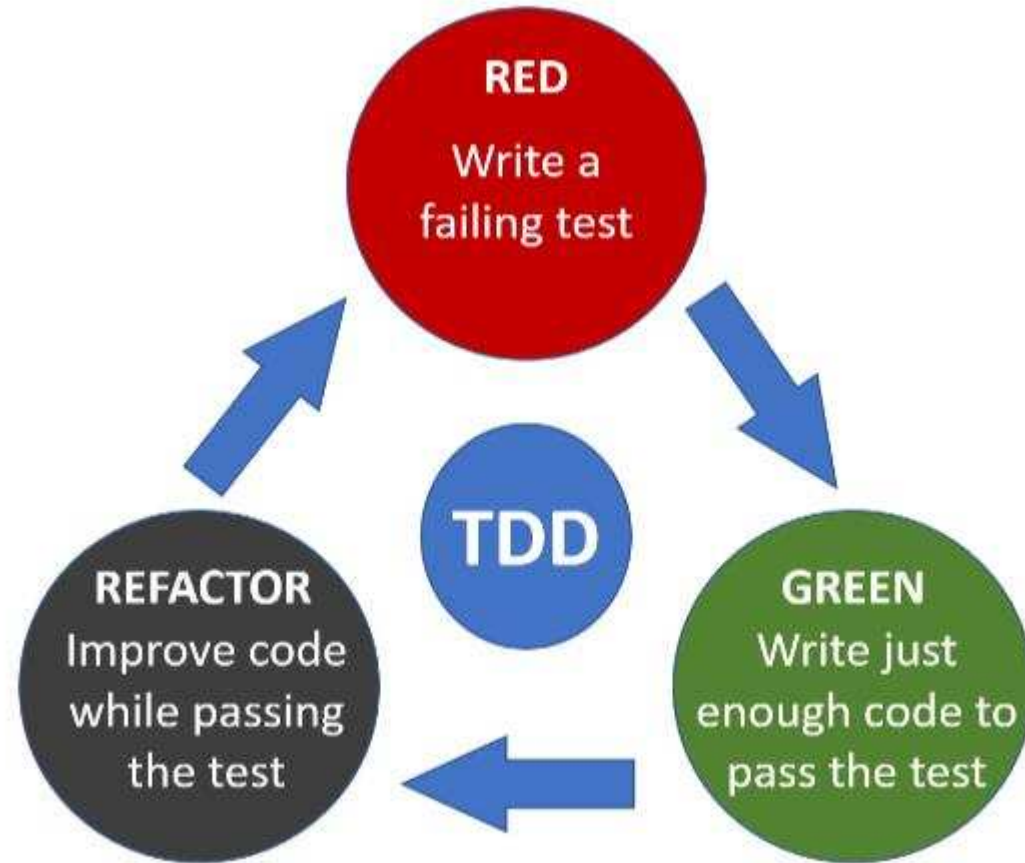
When you are sure of the code you need to write. This is what you will be using more often to move forward quickly.

Triangulation with the next test

When you want to generalize a behavior but are not sure how to do it. Starting with fake implementation and then adding more tests will force the code to be more and more generic. Complete one dimension first and then move on the next one with another test case.

Transformation Priority Premise

#	TRANSFORMATION
1	<code>{ } => nil</code>
2	<code>nil => constant</code>
3	<code>constant => constant+</code>
4	<code>constant => scalar</code>
5	<code>statement => statements</code>
6	<code>unconditional => conditional</code>
7	<code>scalar => array</code>
8	<code>array => container</code>
9	<code>statement => recursion</code>
10	<code>conditional => loop</code>
11	<code>recursion => tail recursion</code>
12	<code>expression => function</code>
13	<code>variable => mutation</code>
14	<code>switch case</code>



Test behavior not implementation!

- Will make the tests easier to write
- Usually, a lot fewer tests needed
- Tests become more robust
- The implementation details are may not be important from the user's (be that a user that wants to use a component or a user using a system) perspective, but the behavior and end result always is

Questions?



References

<https://kentcdodds.com/blog/>

<https://www.codewars.com/>

<https://blog.cleancoder.com/uncle-bob>



Thank you!