

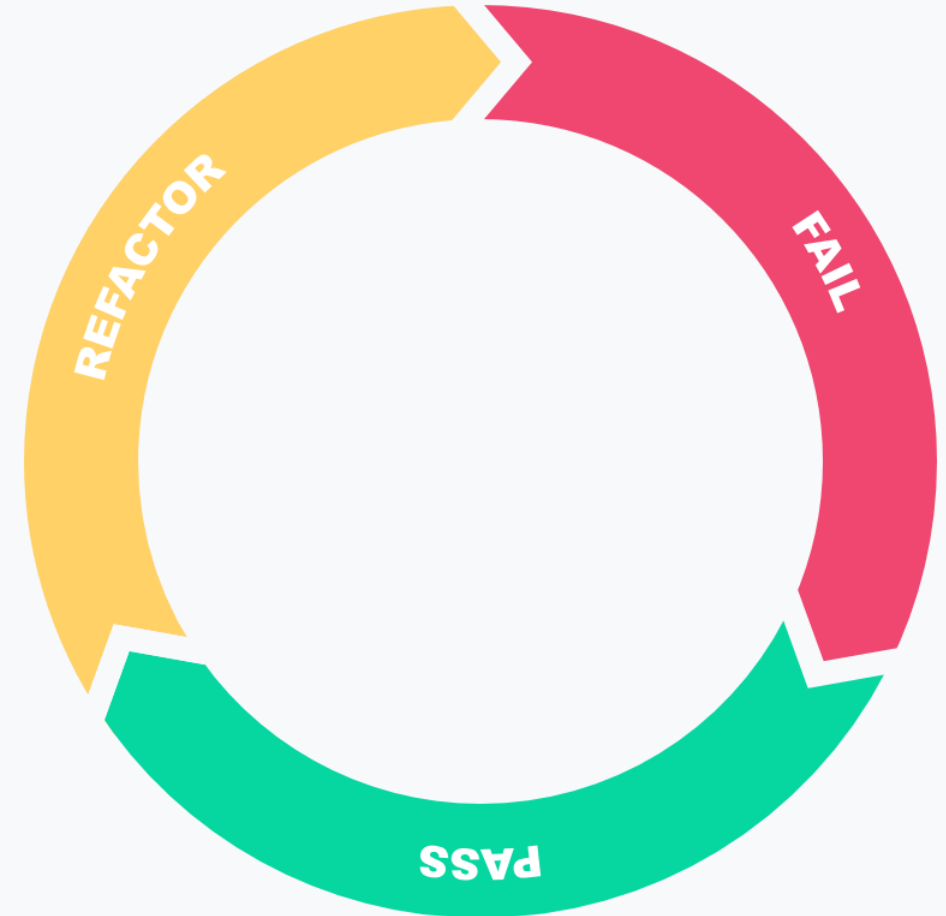
Test Driven Development (TDD)

An Introduction by Kevin Denver

Red-Green-Refactor: The Building Blocks of TDD

Test-driven development follows a three-phase process:

- **Red.** We write a failing test (including possible compilation failures). We run the test suite to verify the failing tests.
- **Green.** We write just enough production code to make the test green. We run the test suite to verify this.
- **Refactor.** We remove any code smells. These may be due to duplication, hardcoded values, or improper use of language idioms (e.g., using a verbose loop instead of a built-in iterator). If we break any tests during refactoring, we prioritize getting them back to green before exiting this phase.



References

- [Learning Test-Driven Development](#)