

How to sleep well

(... as a developer)

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What prevents you from sleeping well?

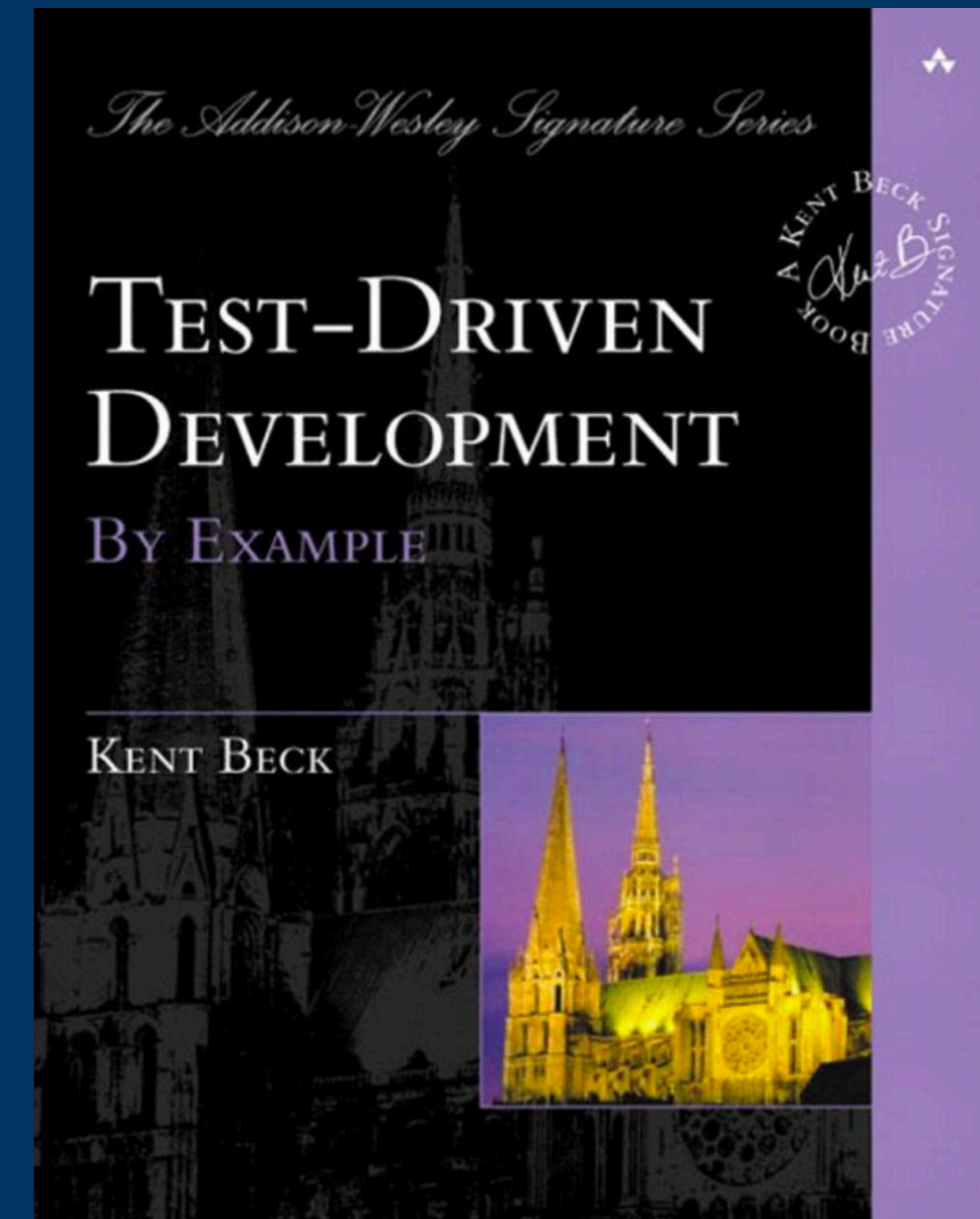
- Getting up to use the bathroom
- Snoring
- Anxious of the code build throughout the day

So is there any help?

- Getting up to use the bathroom
 - drink less :)
- Snoring
 - let the partner wear a nasal strip
- Anxious of the code build throughout the day
 - **TDD**

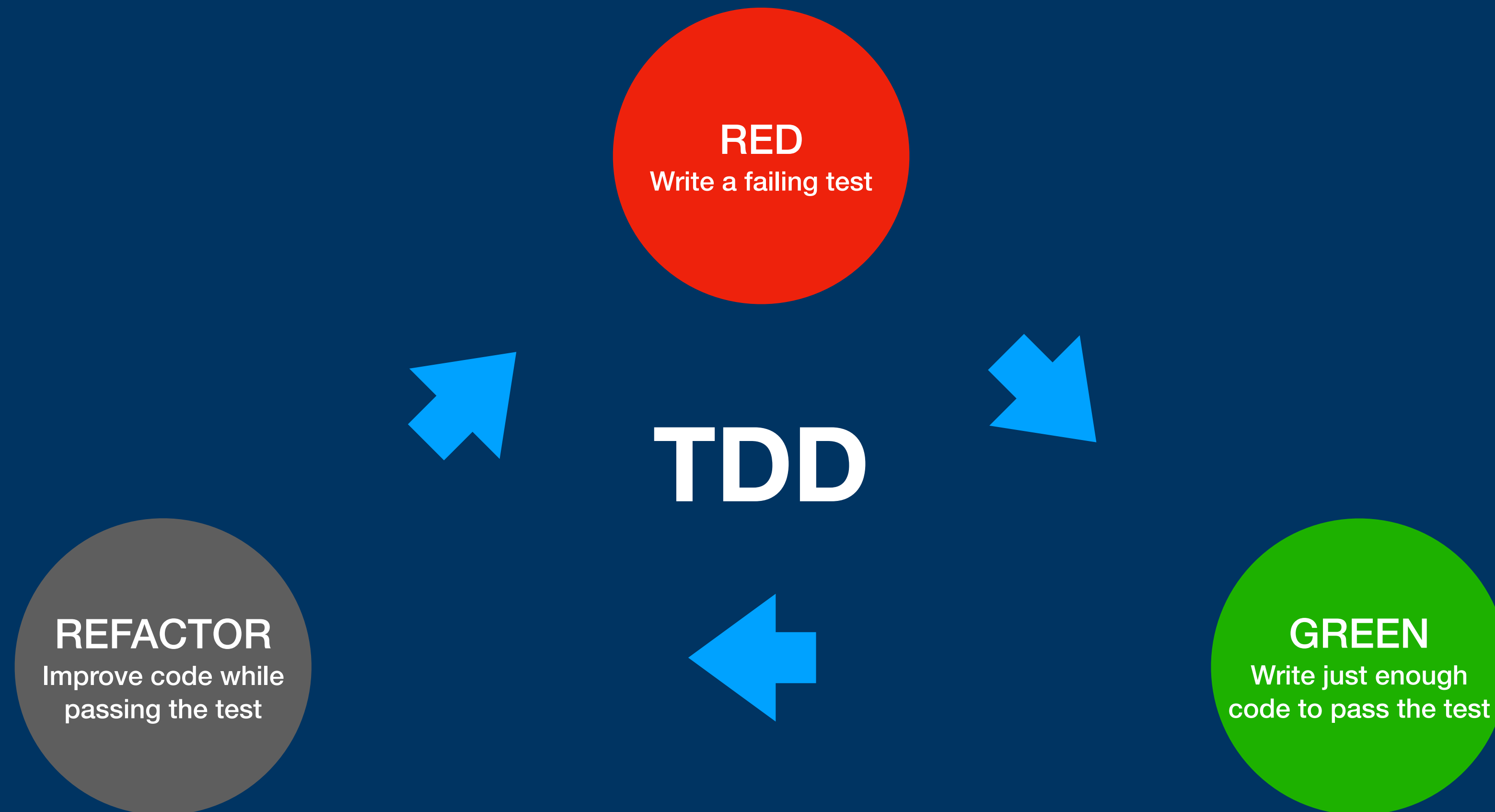
TDD?

- Test Driven Development
 - Created by Kent Beck



- Benefits
 - Design
 - Testable modules aka decoupled, loosely coupled
 - Documentation
 - Test is documentation, always in sync
 - Debugging
 - Almost no debugger needed
 - Courage
 - Tests are a safety net





You are not allowed to write any production code unless it is for making a failing unit test pass

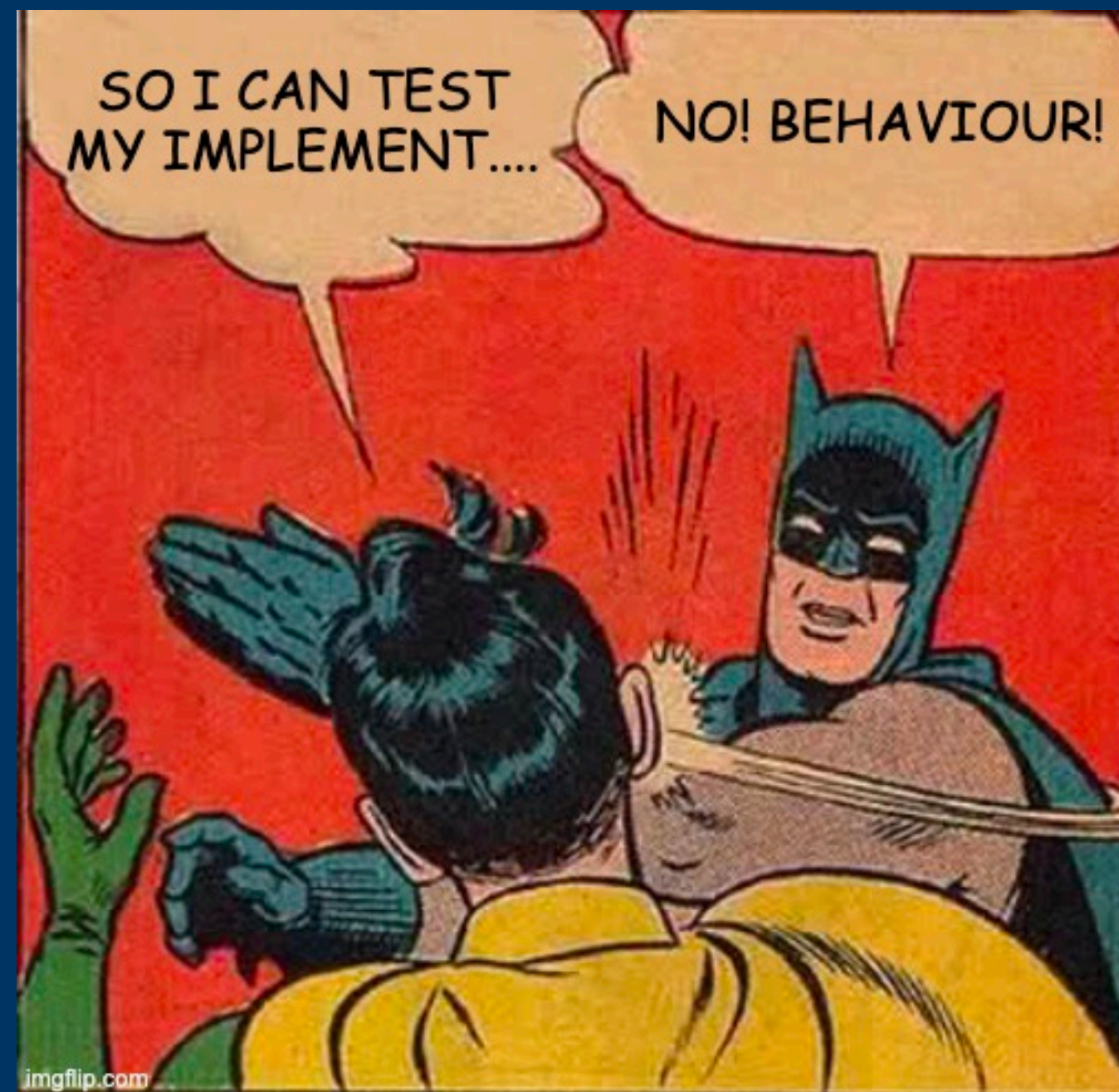
You are not allowed to write any more of a unit test than is sufficient to fail

You are not allowed to write any more production code than is sufficient to pass the one failing unit test

- Baby steps
 - Fake implementation
 - Hard code (return “true”)
 - Obvious implementation
 - When you’re sure, you’re sure
- Triangulation with the next test
 - Suddenly you see a pattern

What to test?

TDD: what to test?



- Remember that we would like to sleep well?
- Do not test internals, test behaviour only
- Tests should break when behaviour changes, not the implementation

Do we sleep better now?

Do we sleep better now?

- YES

Do we sleep better now?

- Questions? :)

- Just kidding :-)
 - But still a “YES”
- Now we have so many levels of confidence in our code
 - Code does what it should
 - Test proves that
 - We can refactor our internal implementation with no fear
 - Test tells us if it breaks
 - Refactoring of the implementation by someone else can easily be verified in PR
 - Bus factor?
 - Documentation is up to date :)

“Goodnight, you princes of Main,
you kings of New England”