

**Limited
work-in-progress
for developers**



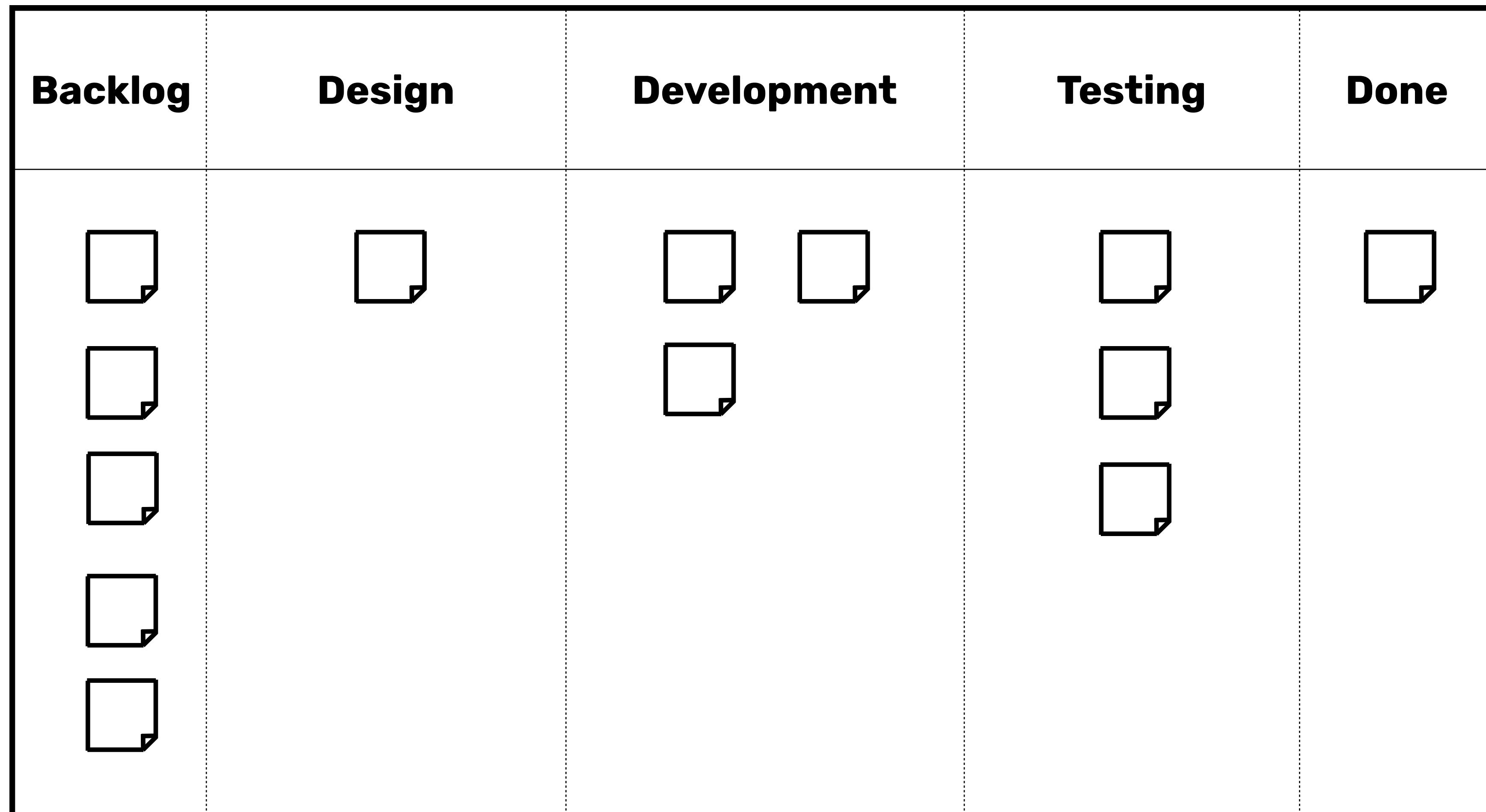
@dmitrykandalov



github.com/dkandalov



youtube.com/dkandalov

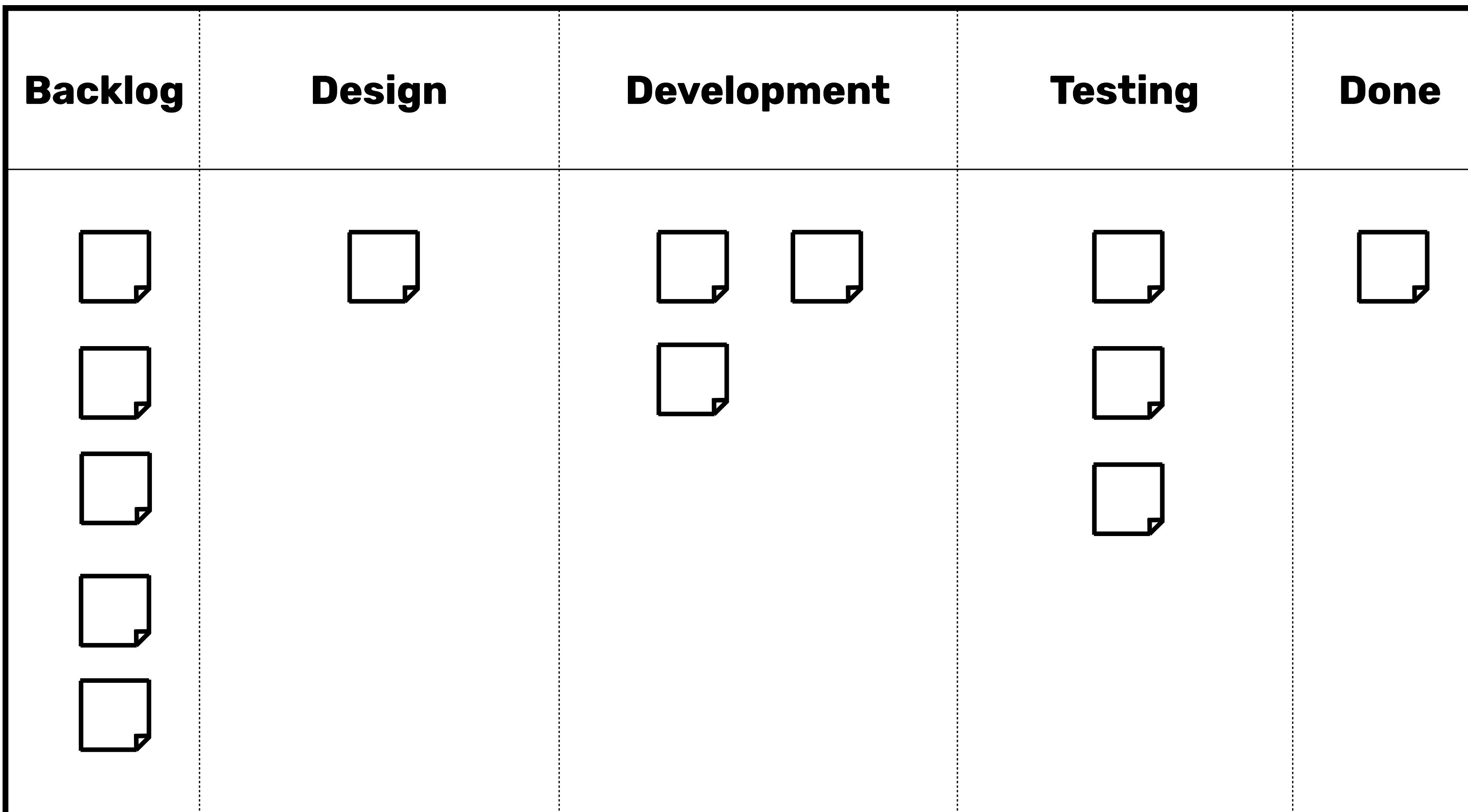


Work-in-progress (WIP) limits

3

5

3

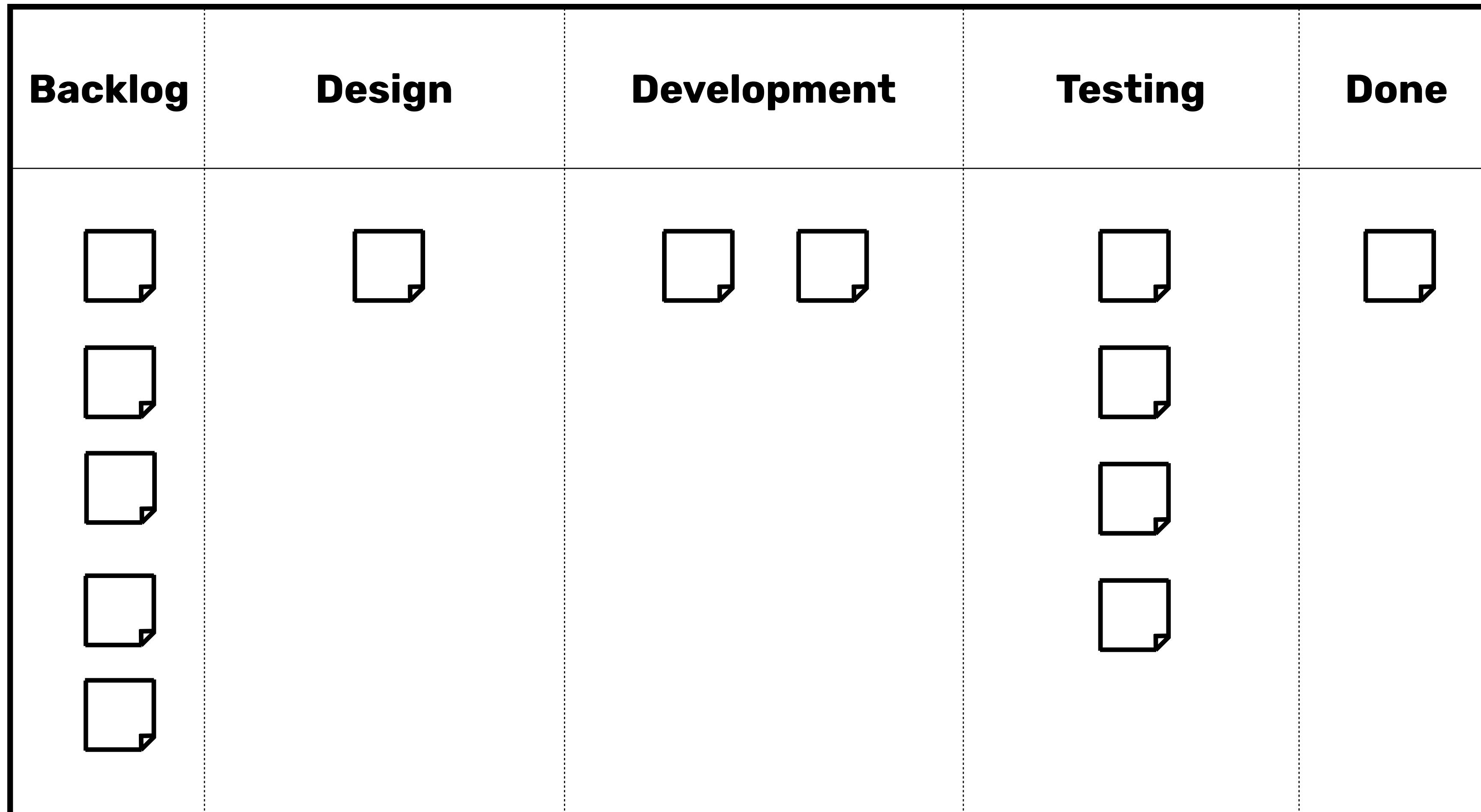


Work-in-progress (WIP) limits

3

5

3

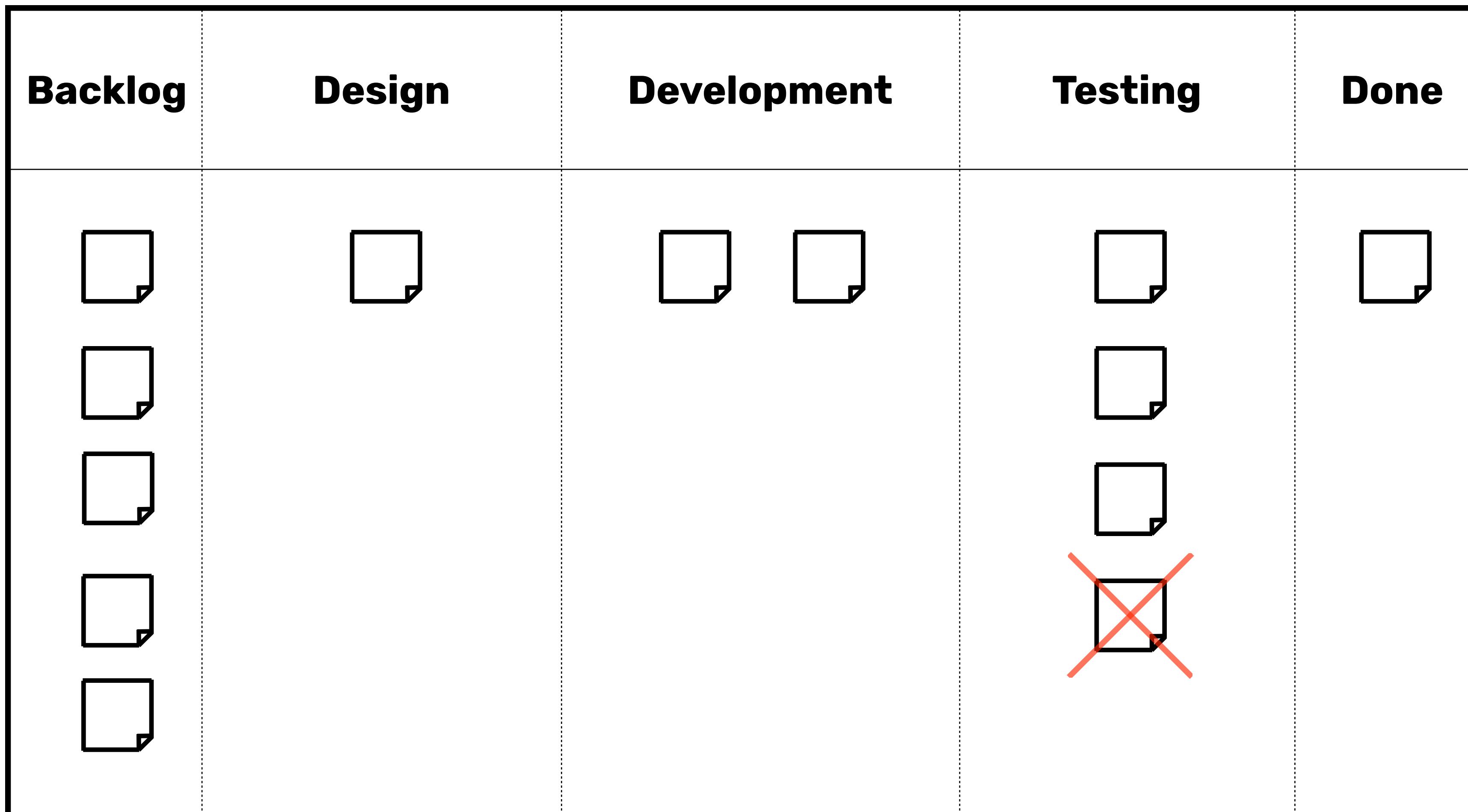


Work-in-progress (WIP) limits

3

5

3

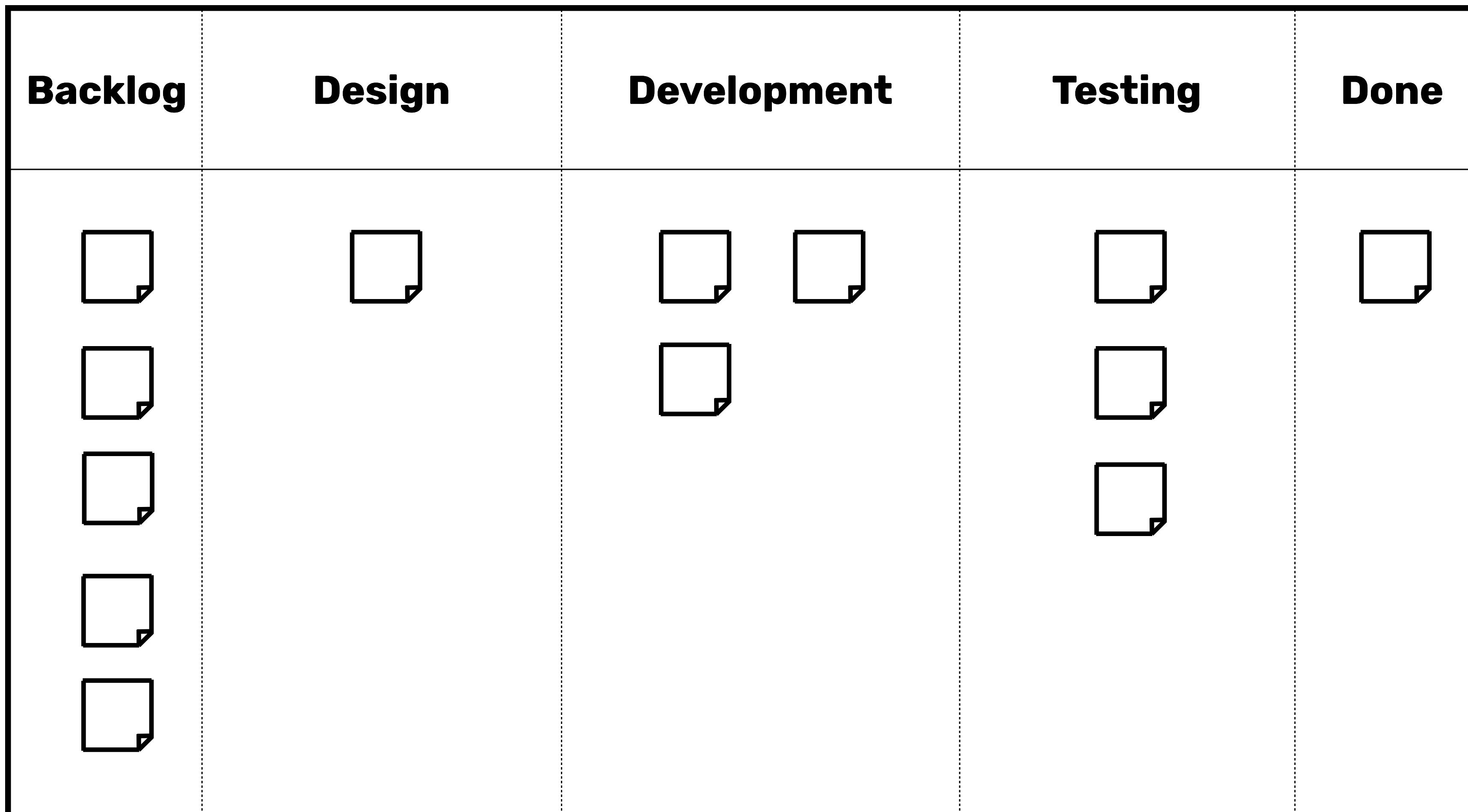


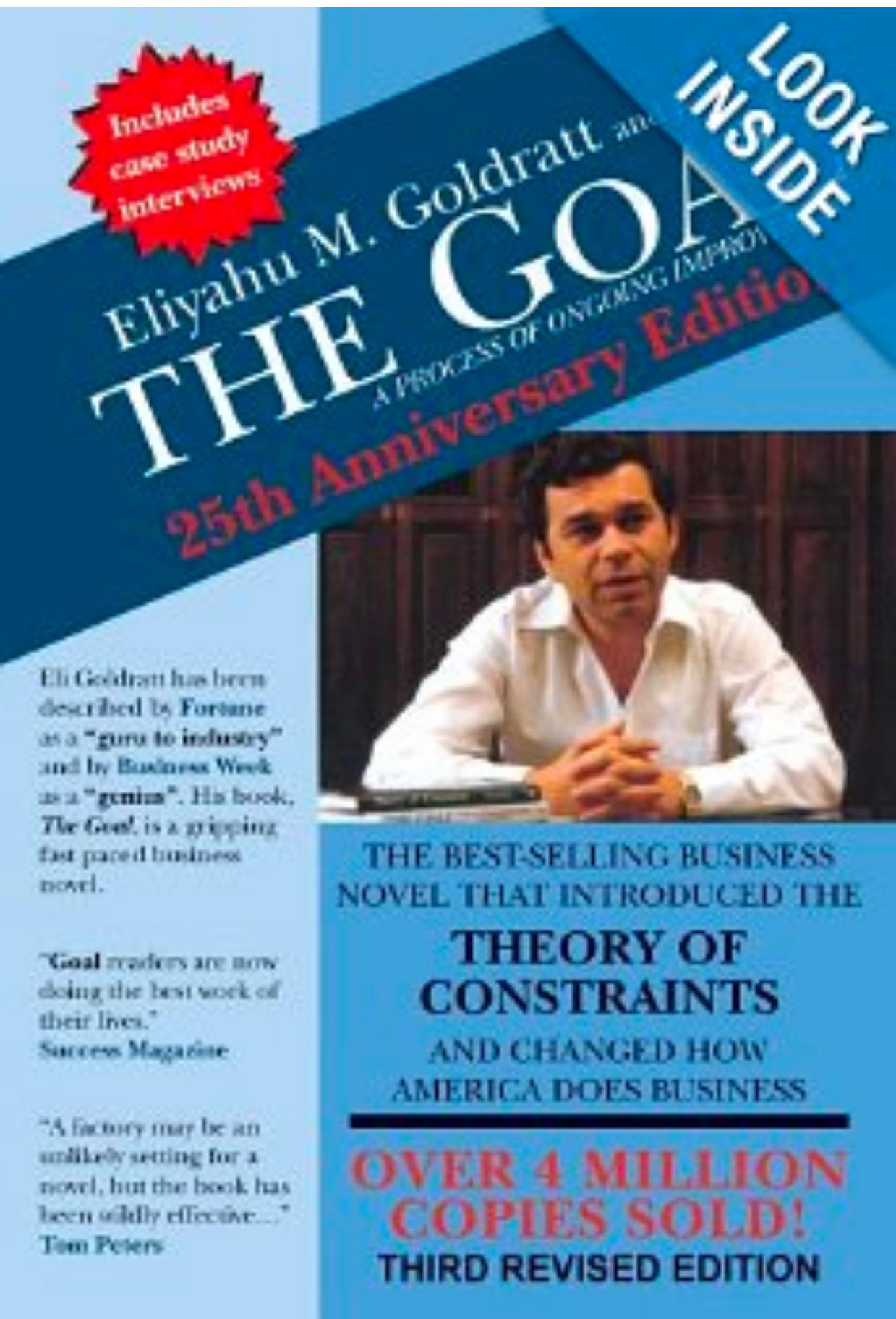
Work-in-progress (WIP) limits

3

5

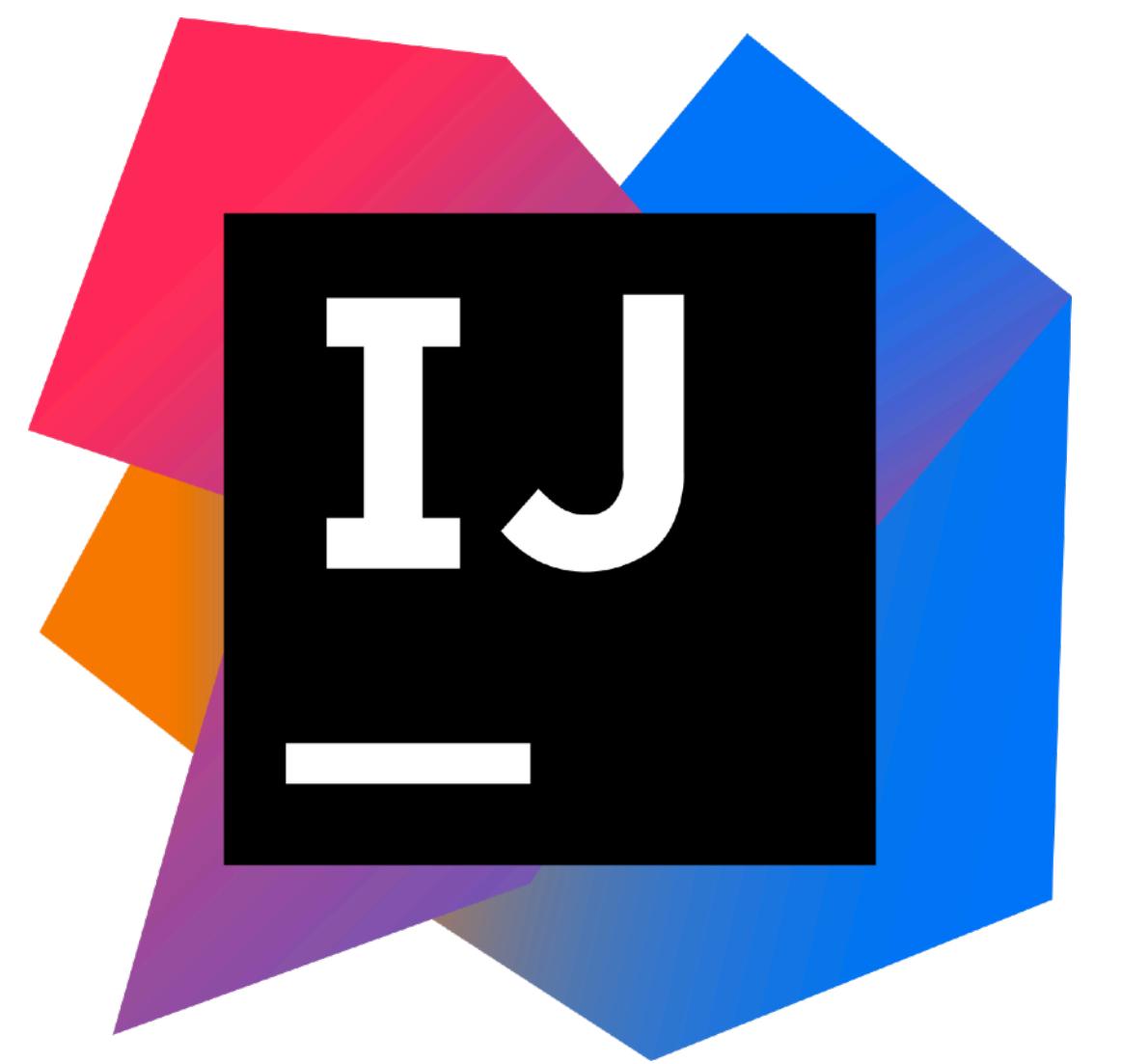
3





Agenda

- 1) TDD with auto-revert
- 2) Test & commit || revert
- 3) Conclusion



Miscellaneous

Limited WIP

[Install to IDE ▾](#)

Compatible with all IntelliJ-based IDEs



Dmitry Kandalov

[Overview](#) [Versions](#) [Reviews](#)

Version History

Version	Compatibility with IntelliJ IDEA Ultimate ▾	Update Date	
2021			
0.3.12	2020.1+	Feb 14, 2021	
2020			
0.3.11	2020.1+	Jun 05, 2020	

FizzBuzzWoof

FizzBuzzWoof

- if divisible by 3, it's “Fizz”

FizzBuzzWoof

- if divisible by 3, it's “Fizz”
- if divisible by 5, it's “Buzz”

FizzBuzzWoof

- if divisible by 3, it's "Fizz"
- if divisible by 5, it's "Buzz"
- if divisible by 7, it's "Woof"

FizzBuzzWoof

- if divisible by 3, it's "Fizz"
- if divisible by 5, it's "Buzz"
- if divisible by 7, it's "Woof"
- and combinations...

FizzBuzzWoof

- if divisible by 3, it's "Fizz"
- if divisible by 5, it's "Buzz"
- if divisible by 7, it's "Woof"
- and combinations...
- otherwise, it's the number

Part 1

**TDD with
auto-revert**

**TDD with
auto-revert
(and change size limit)**

Coderetreat

A community event to practice
professional software
development

LEARN MORE

What is this?

Coderetreats are free day-long, intensive practice events, focusing on the fundamentals of software development and design. By providing developers the opportunity to take part in focused practice, away from the pressures of "getting things done", the coderetreat format has proven itself to be a highly effective means of learning and nurturing software development skills.

All over the world, people are coming together in small communities of practices to learn, explore and grow. Join us on the **Global Day of Coderetreat** or discover local communities around you!



Taking Baby Steps



Posted by [Adi Bolboaca](#) on Mar 11, 2013

I wrote a post on the history of *Taking Baby Steps*, you can read it [here](#).

Now I would like to tell you more about the workshop and the technique itself. While coding, for me it is very important to be focused on one idea. Why? Because this is how *programmer mistakes* appear in the code; some people tell them *bugs*. The other thing I am interested in is to have an undo button for every change. This is why I want to commit every 1-2 minutes.

The rules are the following:

Steps

1. Setup source control repository.
2. Setup a timer for 2 minutes interval when you start.
3. Write exactly one test
 1. If the **timer rings** and the **test is red** then **revert** and **start over**.
 2. If the **test is green** before timer rings then **commit**.



Mini-retro

Mini-retro

- stress from the timer

Mini-retro

- stress from the timer
- rushing to commit

Mini-retro

- stress from the timer
- rushing to commit
- smaller changes +
regular commits = 😎

Auto-revert timeout:

Auto-revert timeout:

- months / years**

Auto-revert timeout:

- months / years
- days / weeks

Auto-revert timeout:

- months / years
- days / weeks
- minutes / hours

Auto-revert timeout:

- months / years
- days / weeks
- minutes / hours
- second(s)

Change size limit:

Change size limit:

- 1000000 lines

Change size limit:

- 1000000 lines
- 10000 lines

Change size limit:

- 1000000 lines
- 10000 lines
- 100 lines

Change size limit:

- 1000000 lines
- 10000 lines
- 100 lines
- 1 line

TDD is a
WIP limiting
technique



**Enabling
constraints
for the win!**

Part 2

test &&

commit ||

revert

- can't commit without running tests

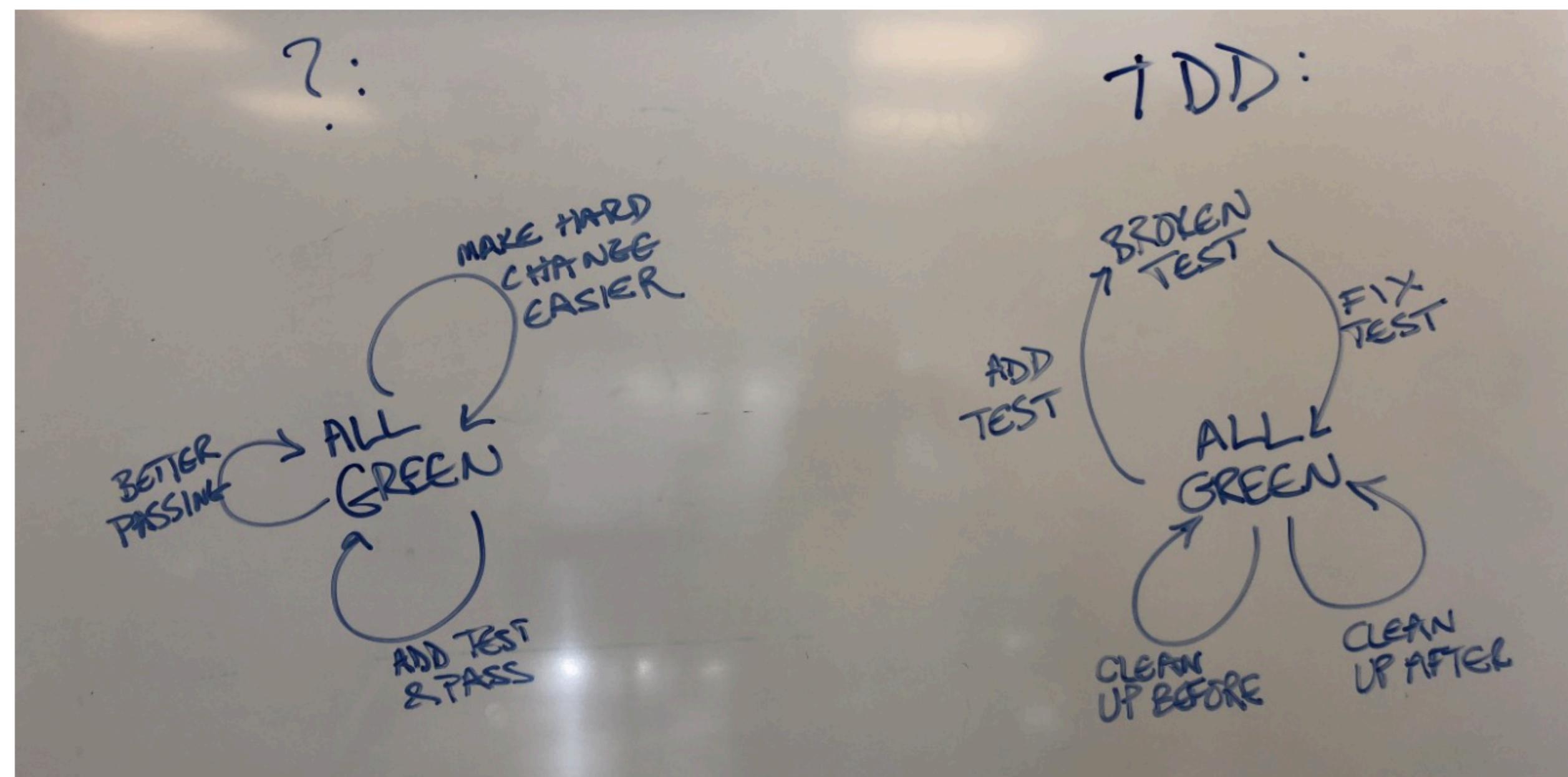
- can't commit without running tests
 - if tests pass, commit changes

- can't commit without running tests
 - if tests pass, commit changes
 - if tests fail, revert changes

test && commit || revert

Kent Beck [Follow](#)

Sep 28, 2018 · 3 min read



As part of [Limbo on the Cheap](#), we invented a new programming workflow. I introduced “test && commit”, where every time the tests run correctly the code is committed. Oddmund Strømme, the first programmer I’ve found as

MARIO
002500

0x12

WORLD
1-1

LIFE
06





Mini-retro

Mini-retro

- incompatible with TDD**

Mini-retro

- incompatible with TDD
- cannot debug

Mini-retro

- incompatible with TDD
- cannot debug
- good for refactoring

Mini-retro

- incompatible with TDD
- cannot debug
- good for refactoring
- commit messages?

Mini-retro

- incompatible with TDD
- cannot debug
- good for refactoring
- commit messages?
- commit or commit & push?

TCR Variants (test && commit || revert)



Thomas Deniffel [Follow](#)

Nov 15, 2018 · 5 min read



In his [post](#), Kent Beck suggests ‘test && commit | | revert.’ This a



Home



Trending



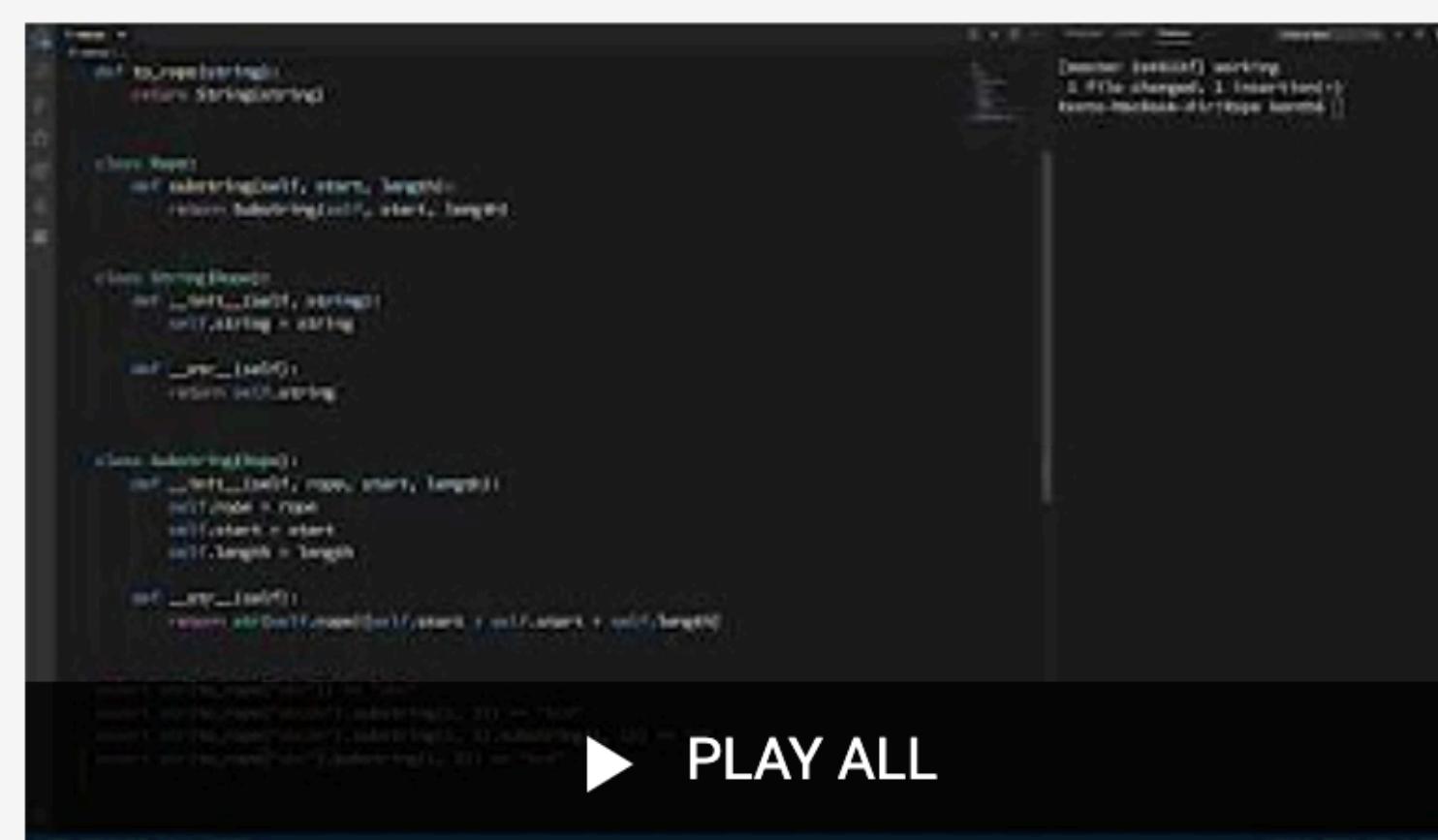
Subscriptions



Library



History



TCR test && commit || revert -- Rope in Python

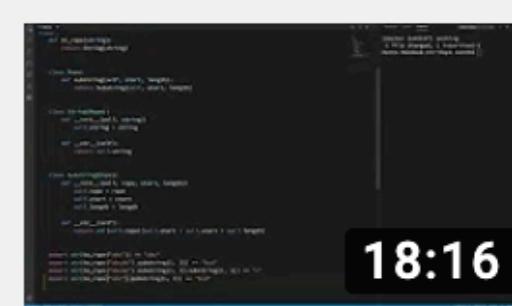
4 videos • 1,555 views • Last updated on 12 May 2020



Kent Beck

SUBSCRIBE

1

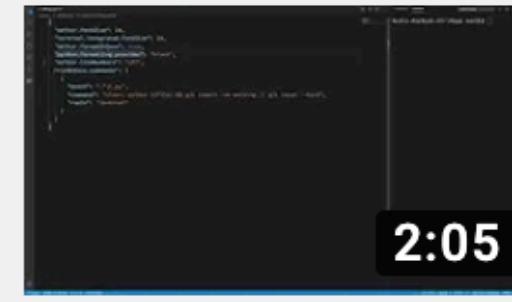


TCR test && commit || revert -- Rope in Python 1/3

18:16

Kent Beck

2

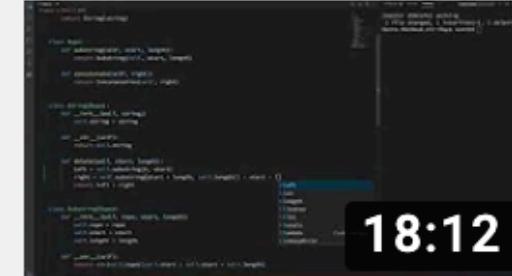


TCR test && commit || revert -- Rope in Python 0/3 -- Setting up VS Code for

2:05

Kent Beck

3

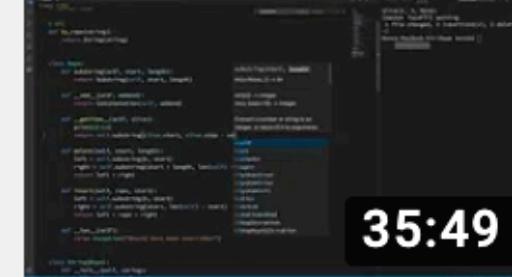


TCR test && commit || revert -- Rope in Python 2/3

18:12

Kent Beck

4

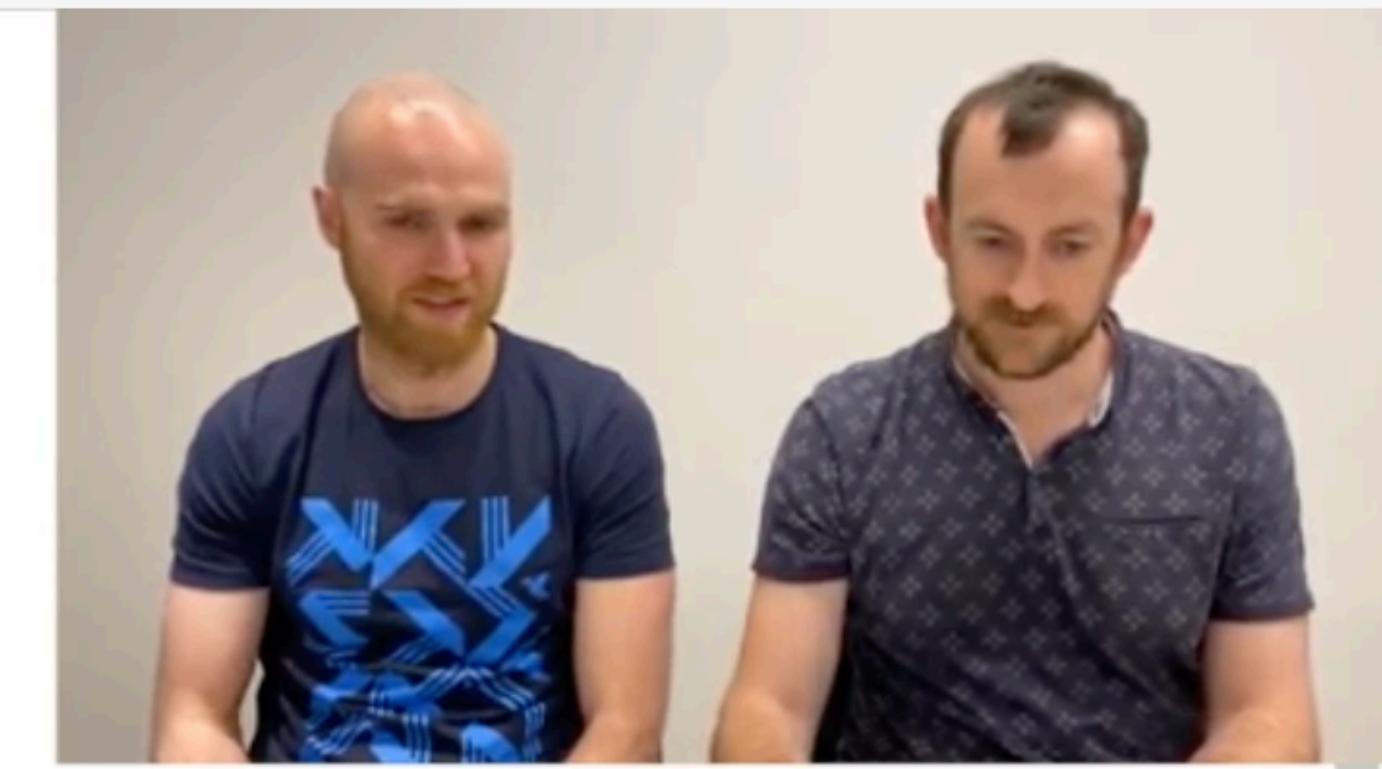


TCR test && commit || revert -- Rope in Python 3/3 -- Make it Right

35:49

Kent Beck

```
1 import org.junit.jupiter.api.Test
2
3
4 class RegexMatcherTests {
5     @Test fun `some examples`() {
6         "".matchesRegex("") shouldEqual true
7         "a".matchesRegex("a") shouldEqual true
8         "".matchesRegex("a") shouldEqual false
9
10        "a".matchesRegex(".") shouldEqual true
11        ".".matchesRegex("a") shouldEqual false
12
13        // "a".matchesRegex("a?") shouldEqual true
14        // "".matchesRegex("a?") shouldEqual true
15        // "b".matchesRegex("a?") shouldEqual false
16    }
17
18
19    private fun String.matchesRegex(regex: String): Boolean {
20        if (this.length != regex.length) return false
21        return this.zip(regex)                         Finished, s...
22            .all { it.second == '.' || it.first == it.second }
23    }
24}
```



▶ ⏪ 🔍 4:39 / 18:02

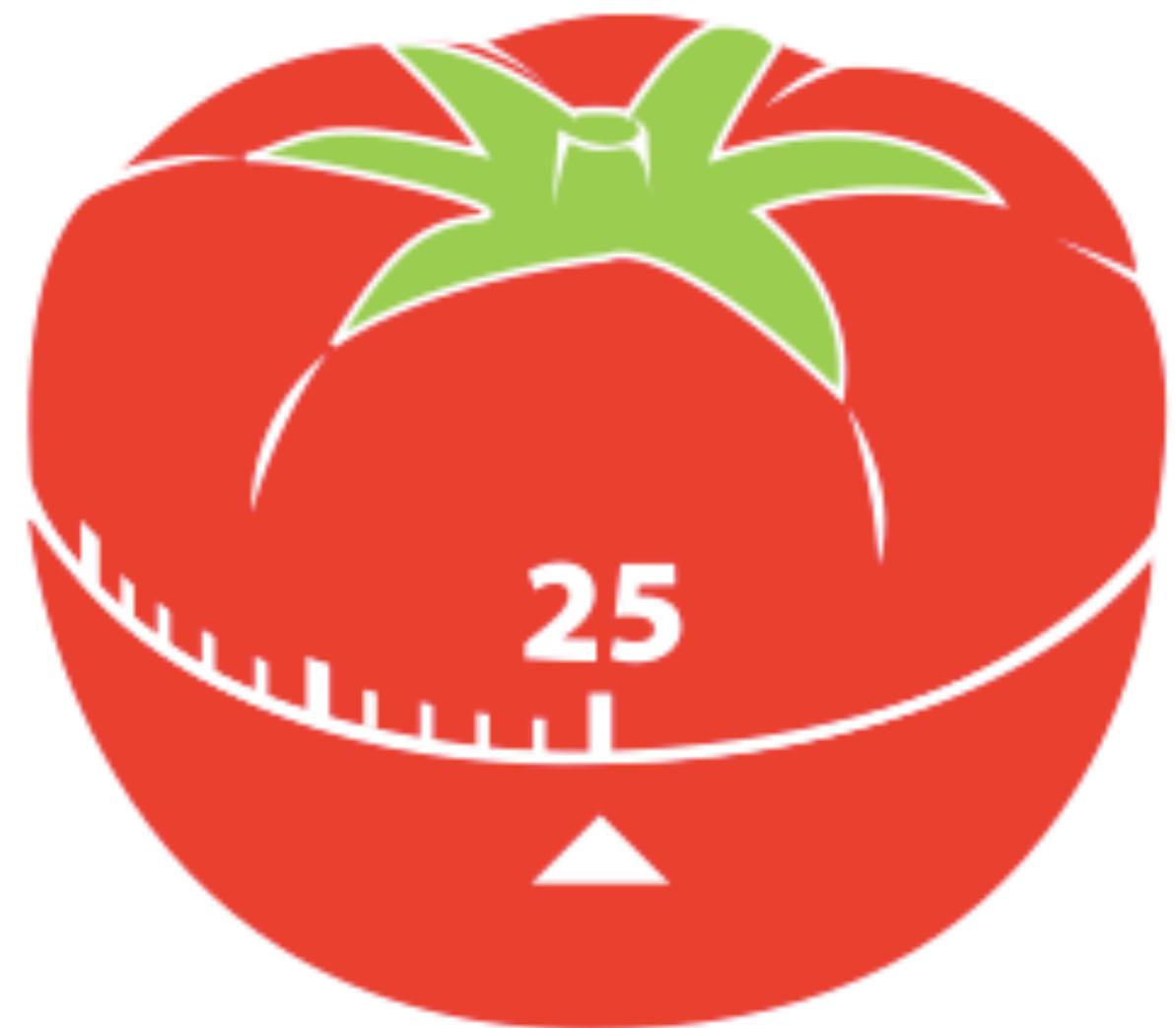
☰ ⚙️ 🗑️ 🗑️ 🗑️

Part 3

**Try it
yourself!**

DIY
change size limit
via git hooks

DIY auto-revert



DIY TCR

gradle test &&

git commit -a ||

git reset --hard

Miscellaneous

Limited WIP

[Install to IDE ▾](#)

Compatible with all IntelliJ-based IDEs



Dmitry Kandalov

[Overview](#) [Versions](#) [Reviews](#)

Version History

Version	Compatibility with IntelliJ IDEA Ultimate ▾	Update Date	
2021			
0.3.12	2020.1+	Feb 14, 2021	
2020			
0.3.11	2020.1+	Jun 05, 2020	

Conclusion

Conclusion

Questions

**What is the point of
commit messages? 🤔**

**What is the point of
commits? 🤔**

Is commit/push
the new “Save”
button? 

**What about
continuous updates?**



Ultimate CI:
continuous
push/update on a
★ **single branch** ★

Are our toolchains
too slow for these
workflows?

Why?

**Should WIP be applied
end-to-end?
(not just coding)**

**More feedback
loops in IDE/editor?**

Source code and links

<https://github.com/dkandalov/>

[limited-wip-for-devs](#)

The End



@dmitrykandalov



github.com/dkandalov



youtube.com/dkandalov

