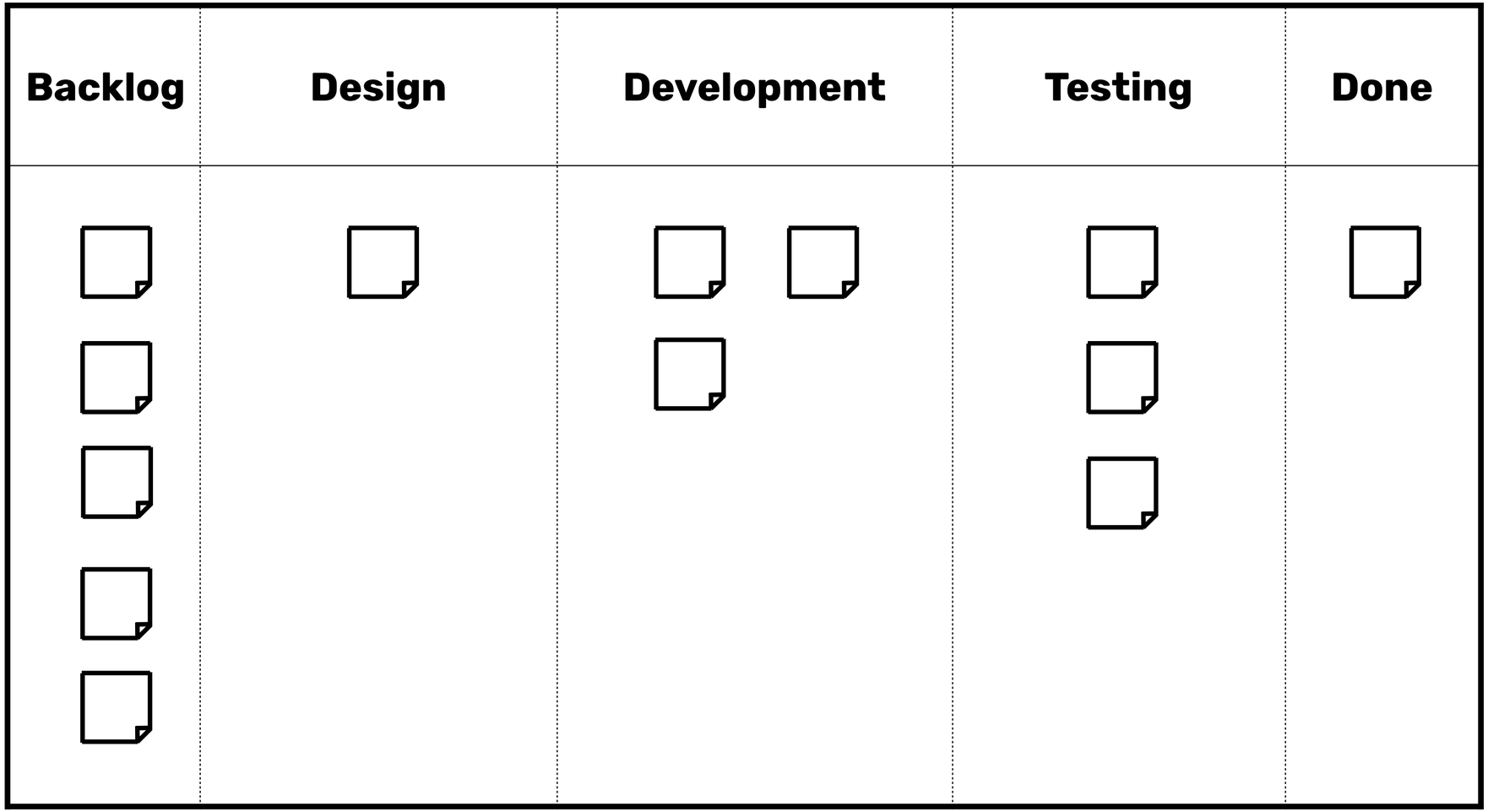
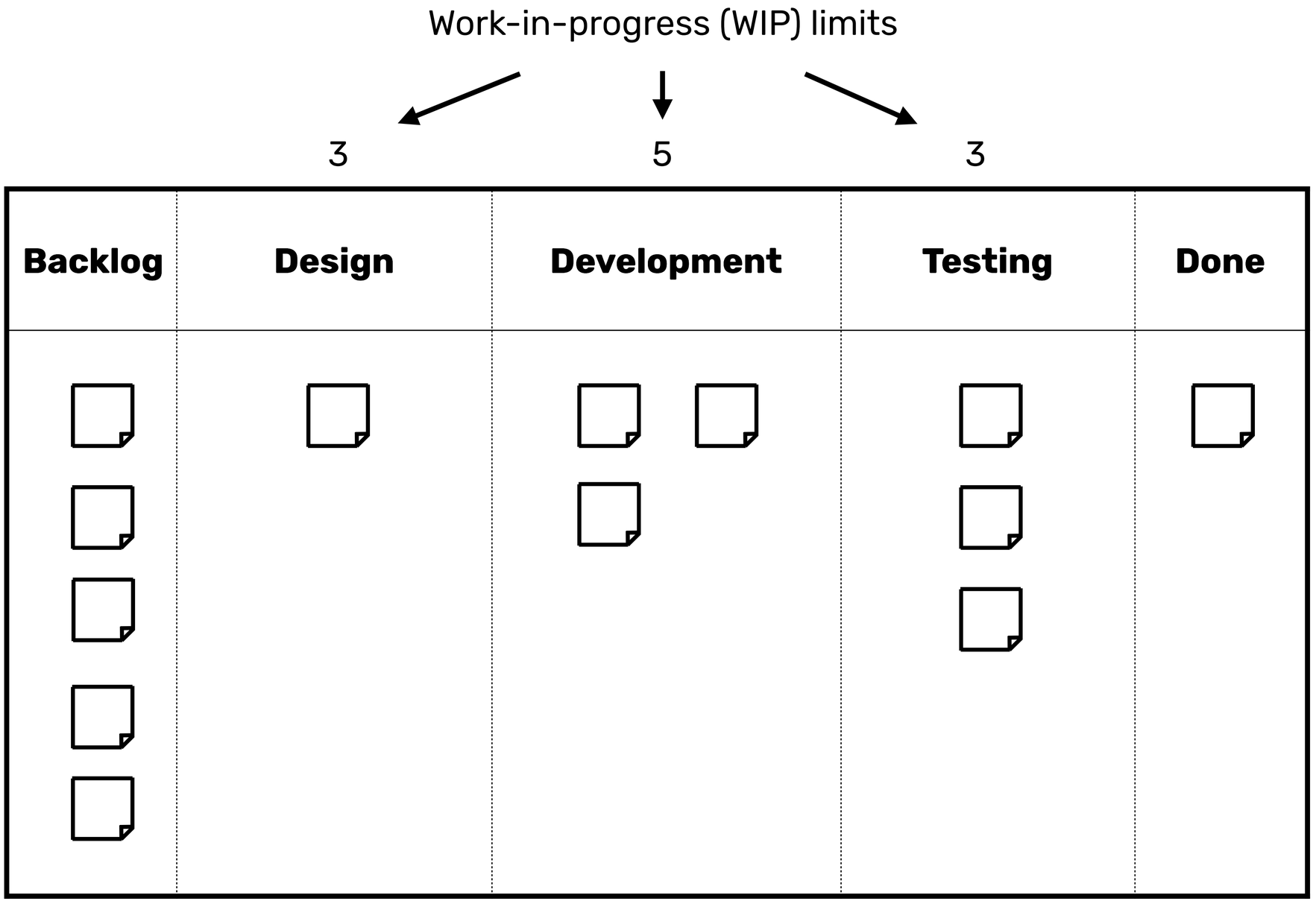
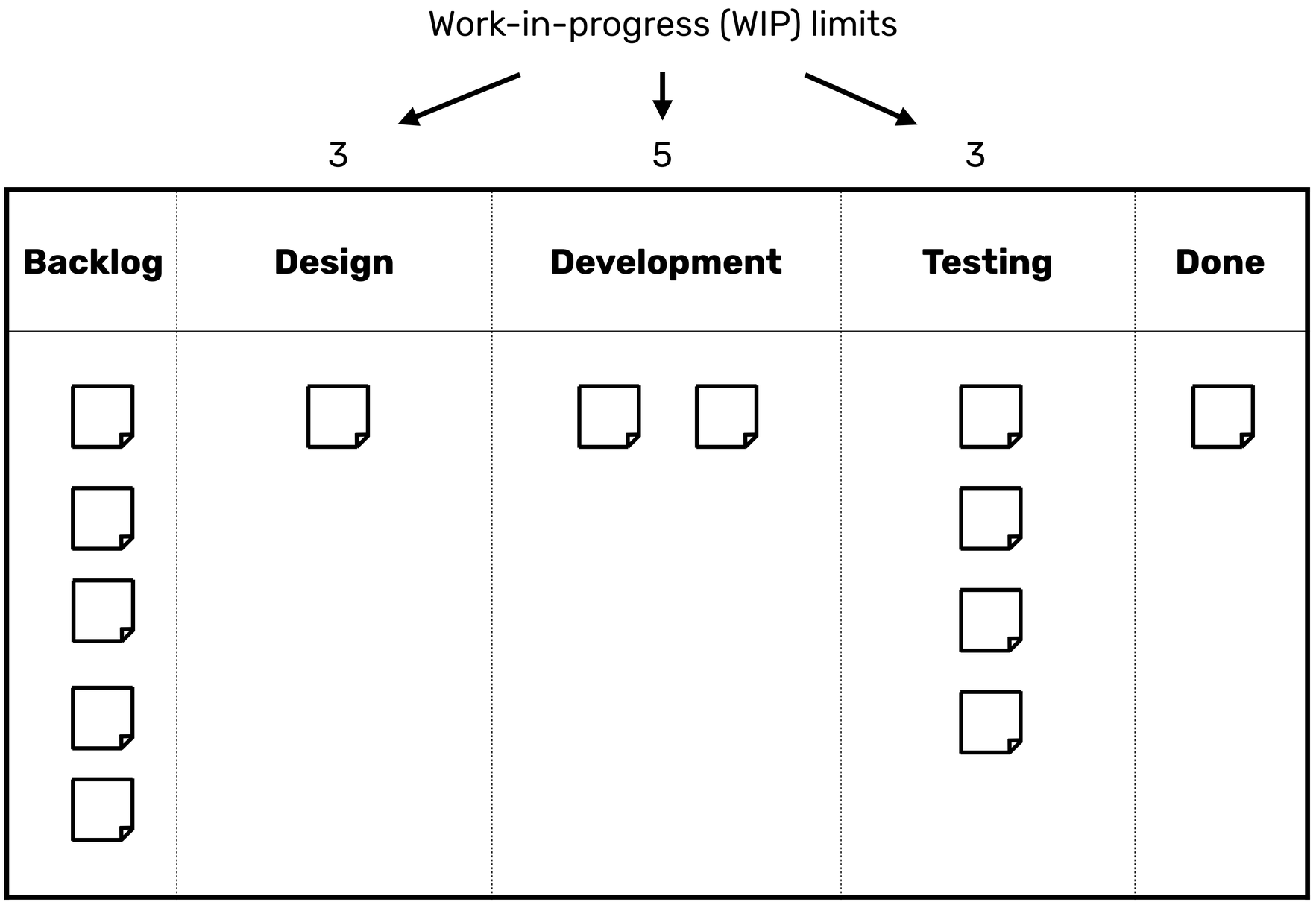
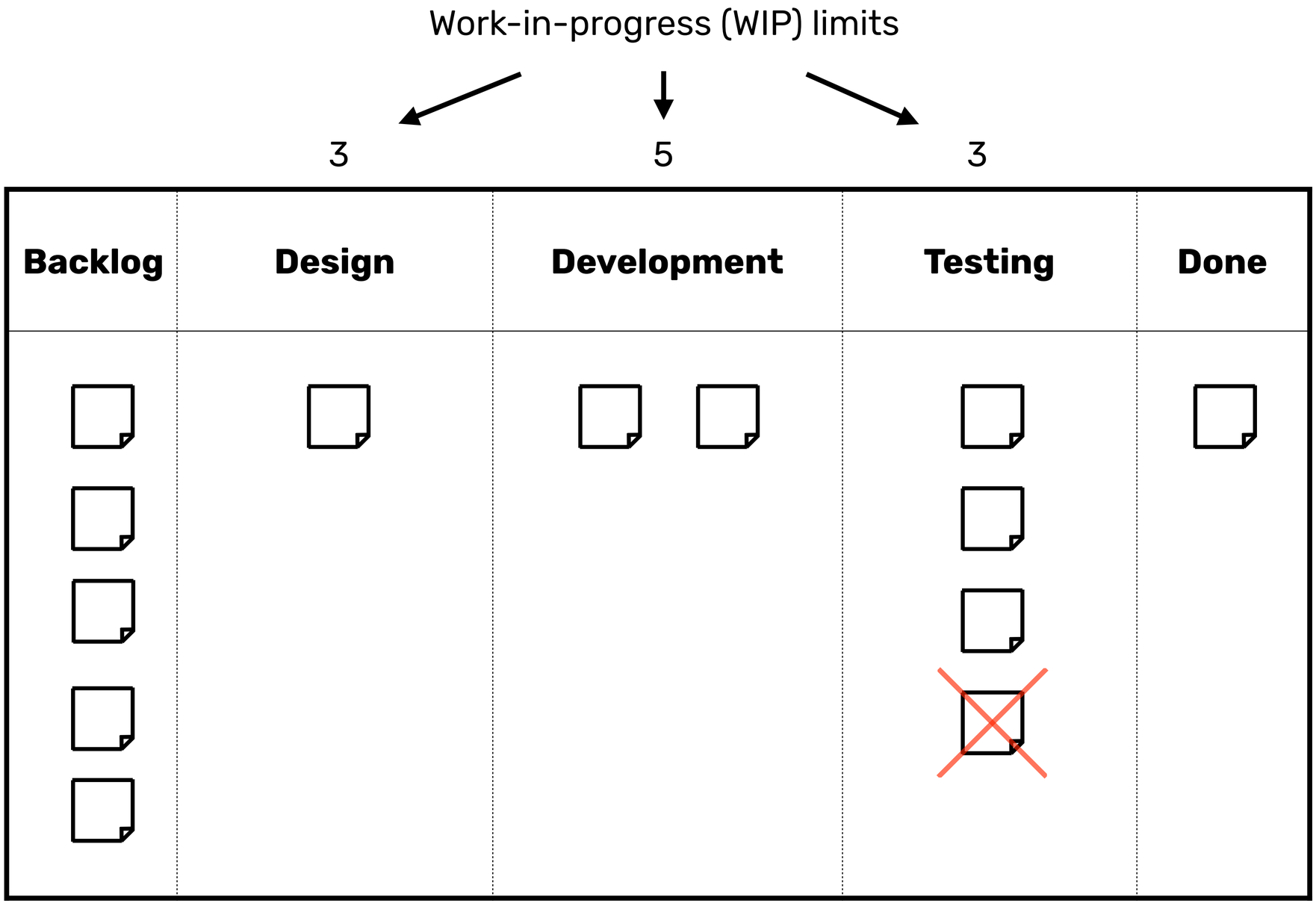
Limited WIP for developers


Backlog
Design
Development
Testing
Done


Work-in-progress (WIP) limits
3
5
3
Backlog
Design
Development
Testing
Done


Work-in-progress (WIP) limits
3
5
3
Backlog
Design
Development
Testing
Done


Work-in-progress (WIP) limits
3
5
3
Backlog
Design
Development
Testing
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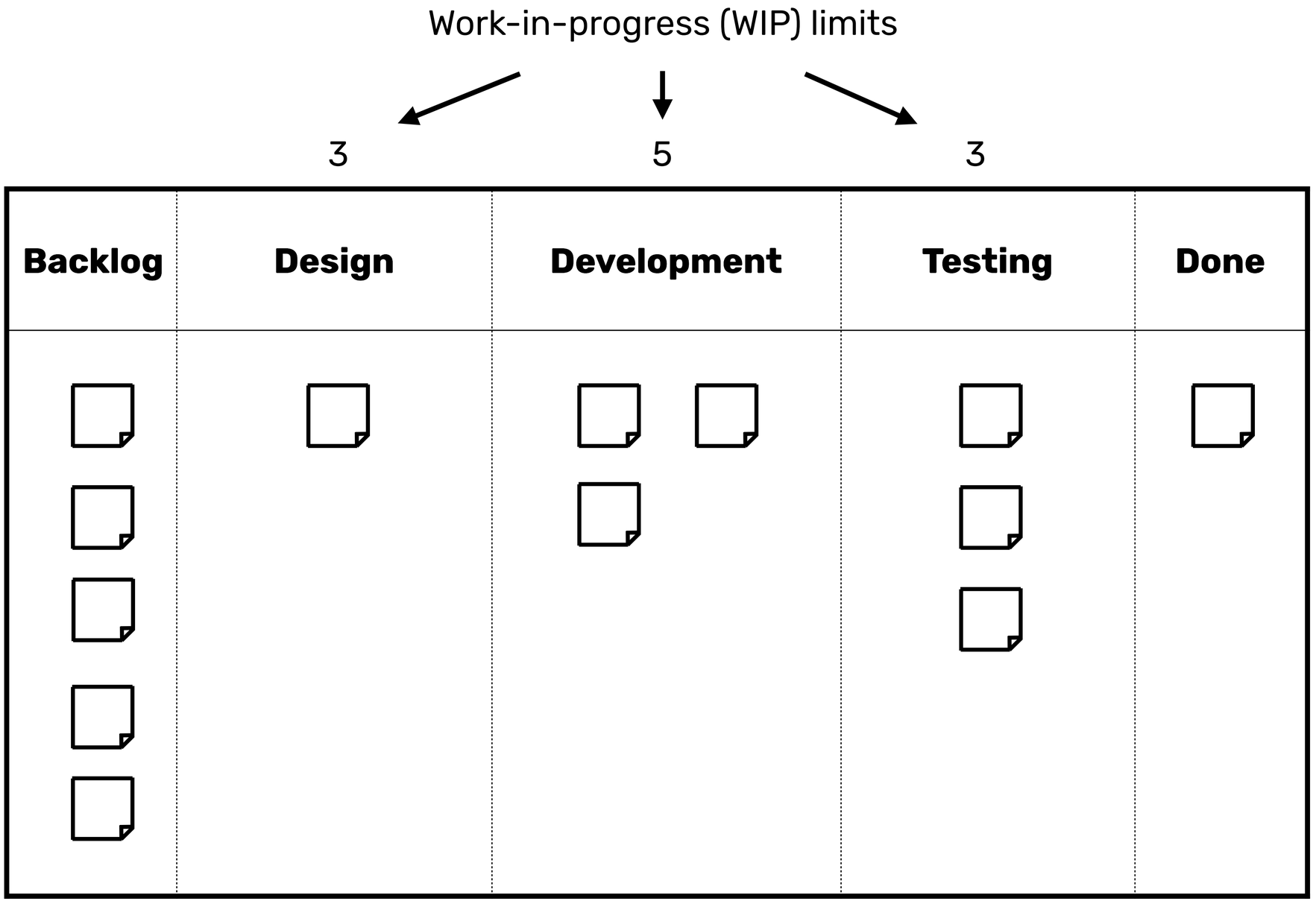
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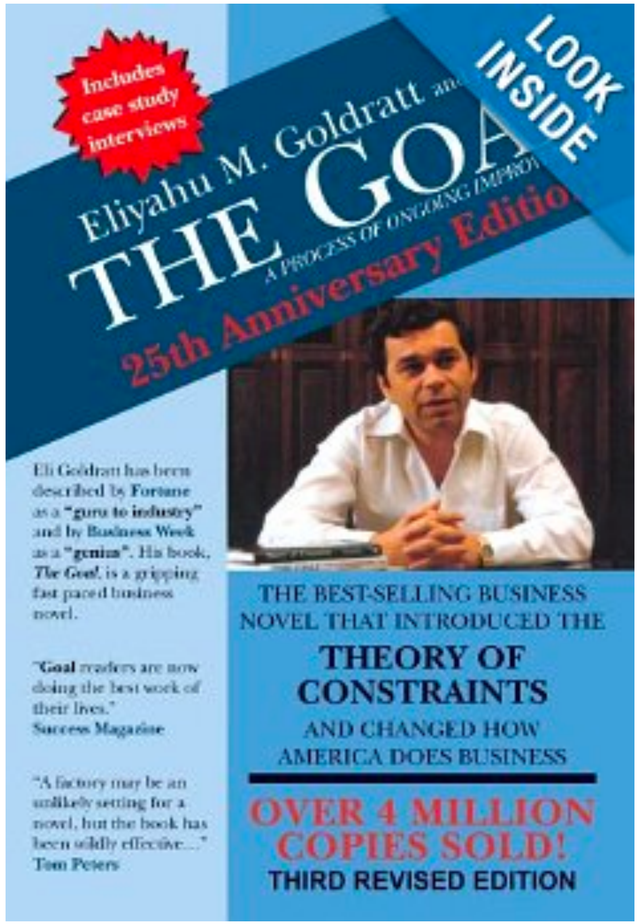
Includes case study interviews
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Eli Goldratt has been described by Fortune as a "guru to industry" and by Business Week as a "genius". His book, The Goal, is a gripping fast paced business novel.
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Miscellaneous

Limited WIP

★ ★ ★ ★ ★

Dmitry Kandalov

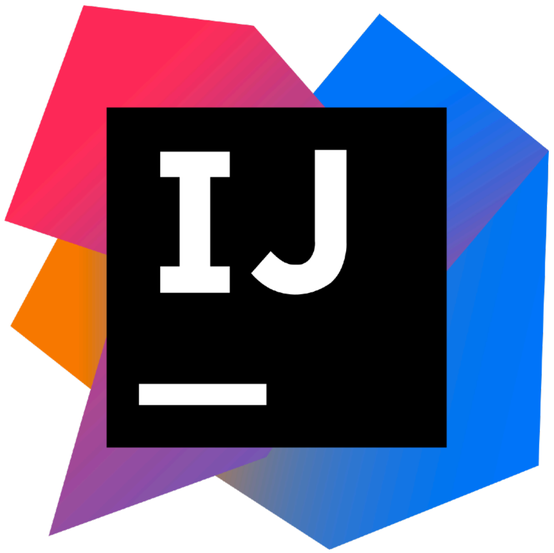
Install to IDE

Compatible with all IntelliJ-based IDEs

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

Other Settings › Limited WIP
For current project
Reset
Change size watchdog
Enabled
Change size threshold
120
lines
Notification interval
never
Show remaining changes in toolbar
No commits above threshold
Excluded files
*.approved
e.g. *.approved;**/docs/*.txt
Auto-revert
Enabled
Timeout period
5
minutes
Notify on revert
Show time till revert
TCR mode (test && commit || revert)
Enabled
On passed test
commit
Use commit message from
last commit
Notify on revert
Don't revert tests
Don't revert files
e.g. *.approved;**/tests/*.js
Open readme on GitHub
Cancel
Apply
OK


IJ

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

Agenda

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

Part 1

TDD with auto-revert

TDD with auto-revert (and change size limit)

Mini-retro

Mini-retro

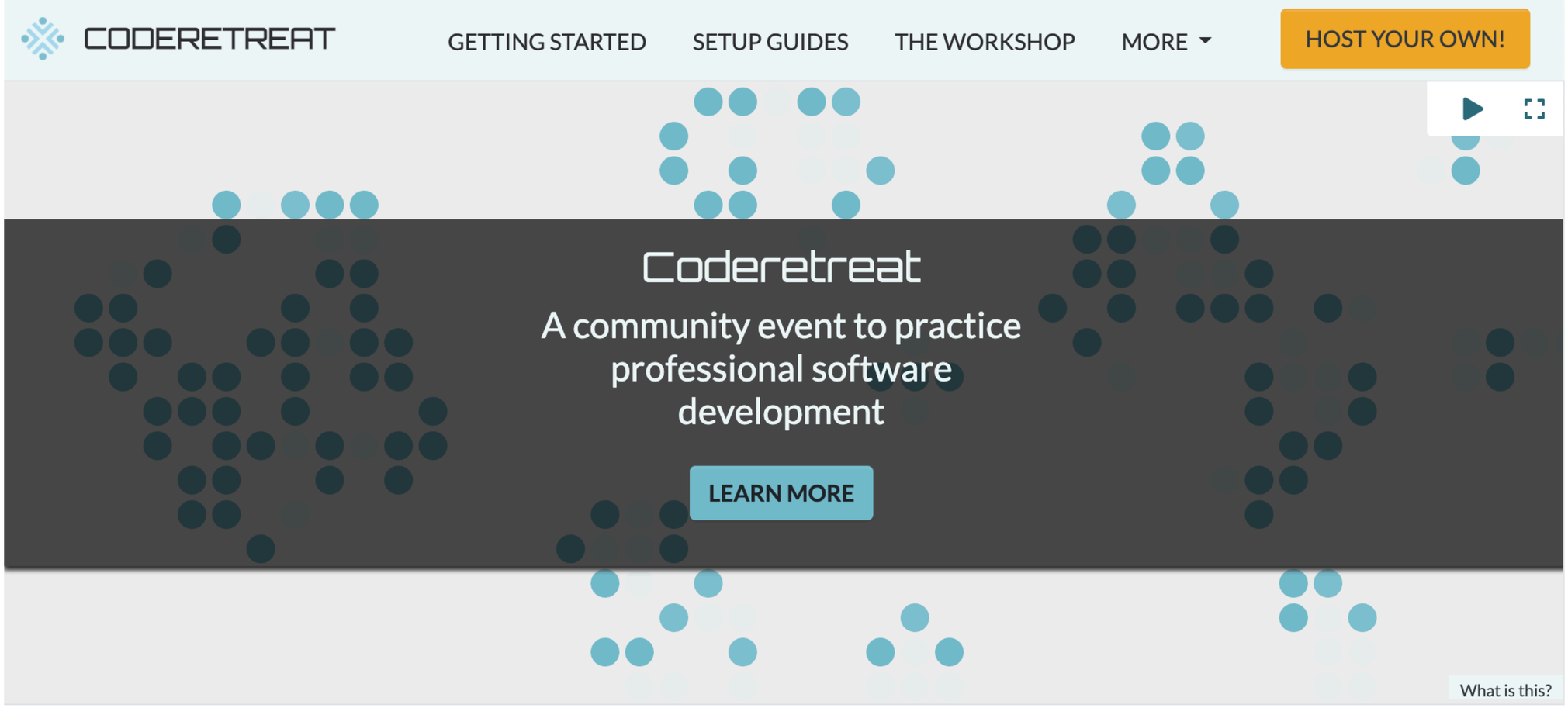
- stress from the timer

Mini-retro

- stress from the timer
- rushing to commit

Mini-retro

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



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**.

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

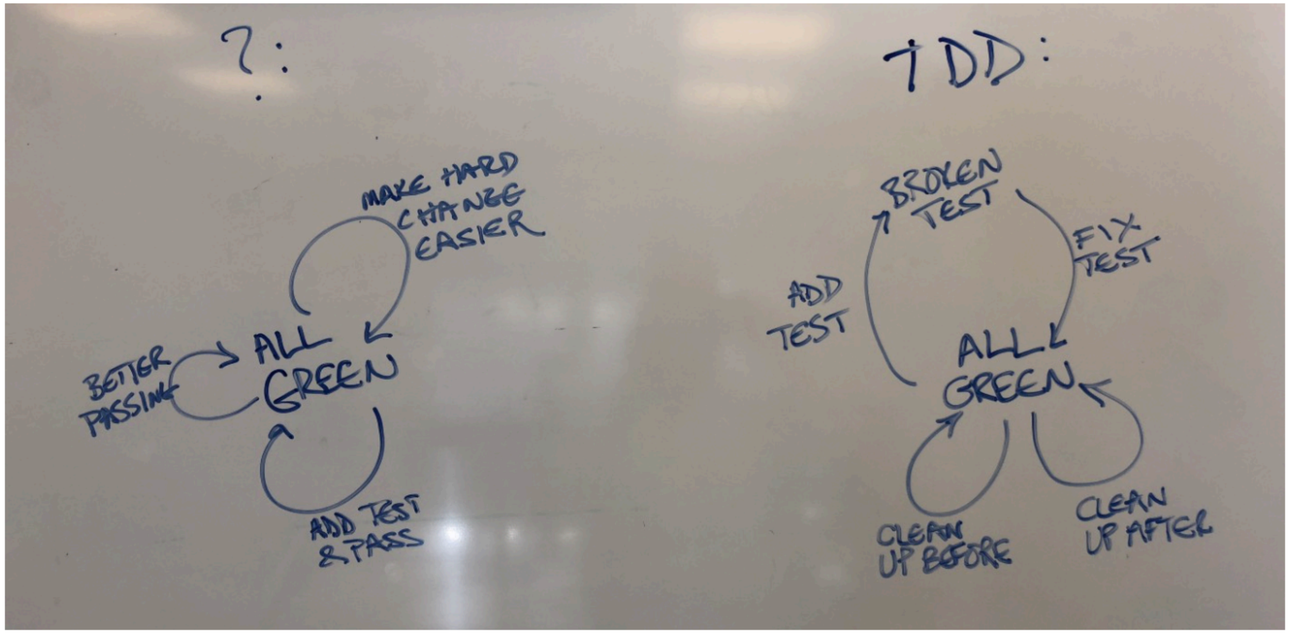
- can’t commit without running tests
  - if tests pass, commit changes

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

Become a member Sign in Get started

test && commit || revert

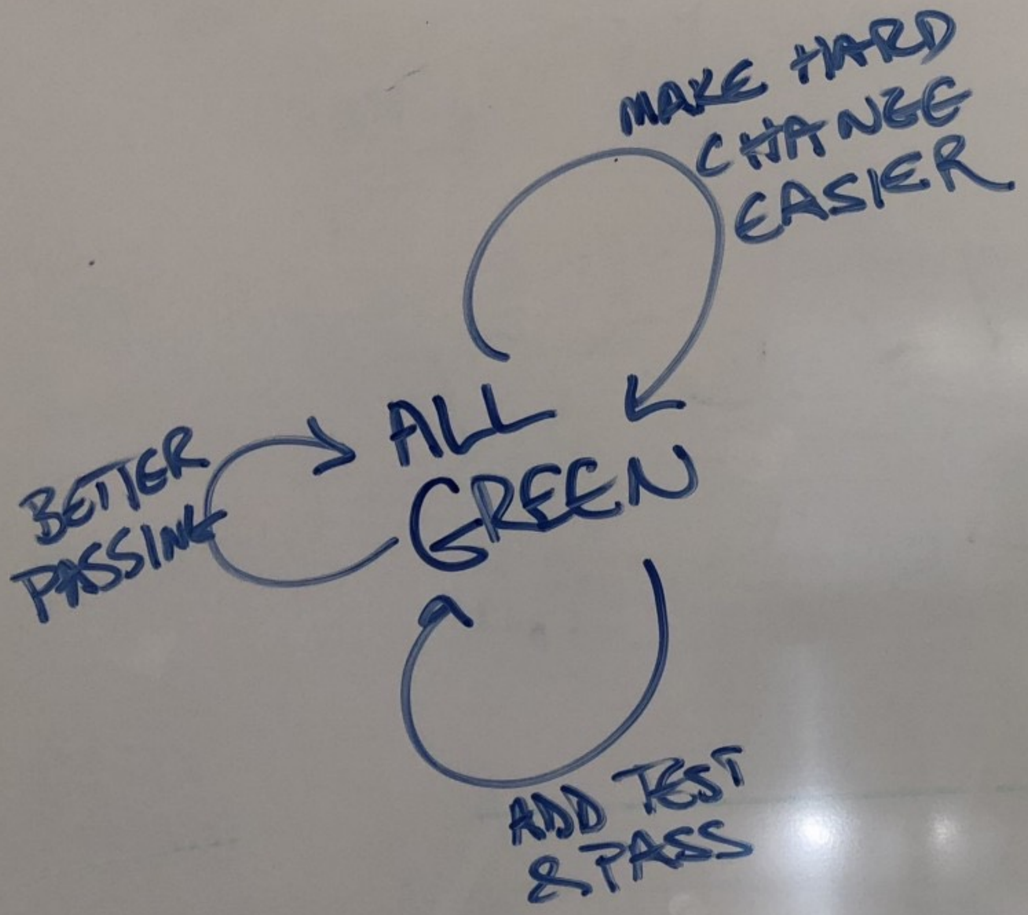
Kent Beck Follow
Sep 28, 2018 · 3 min read



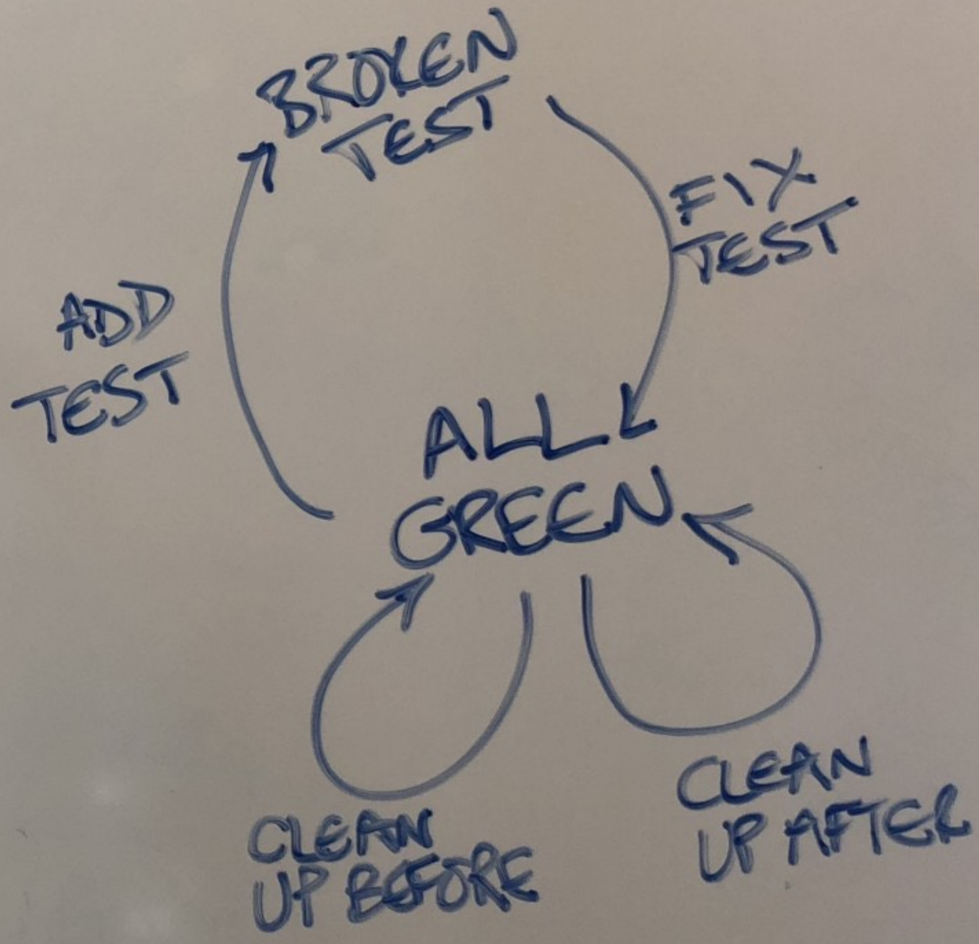
The new style versus test-driven development

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

?:


MAKE HARD CHANGE EASIER
BETTER PASSING
ALL GREEN
ADD TEST & PASS

TDD:


BROKEN TEST
FIX TEST
ADD TEST
ALL GREEN
CLEAN UP BEFORE
CLEAN UP AFTER

MARIO
002500
×12
WORLD
1-1
LIFE
06
SOFTPEDIA

TCR

quirks

- incompatible with TDD (can’t have failing tests)

- incompatible with TDD
(can’t have failing tests)
- test stacktraces are not useful

- incompatible with TDD
(can’t have failing tests)
- test stacktraces are not useful
- commit messages?

- incompatible with TDD
(can’t have failing tests)
- test stacktraces are not useful
- commit messages?
- commit or commit & push?

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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

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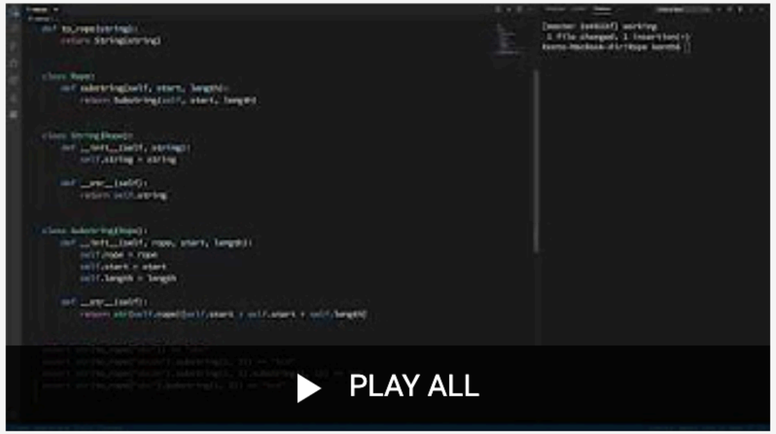

TCR test && commit || revert -- Rope in Python

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

Kent Beck

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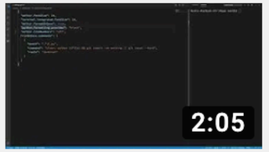
1

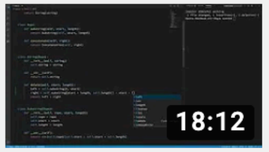
TCR test && commit || revert -- Rope in Python 1/3

Kent Beck

2 

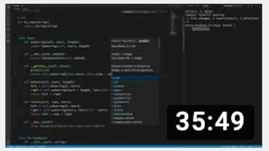
TCR test && commit || revert -- Rope in Python 0/3 -- Setting up VS Code for

Kent Beck

3 

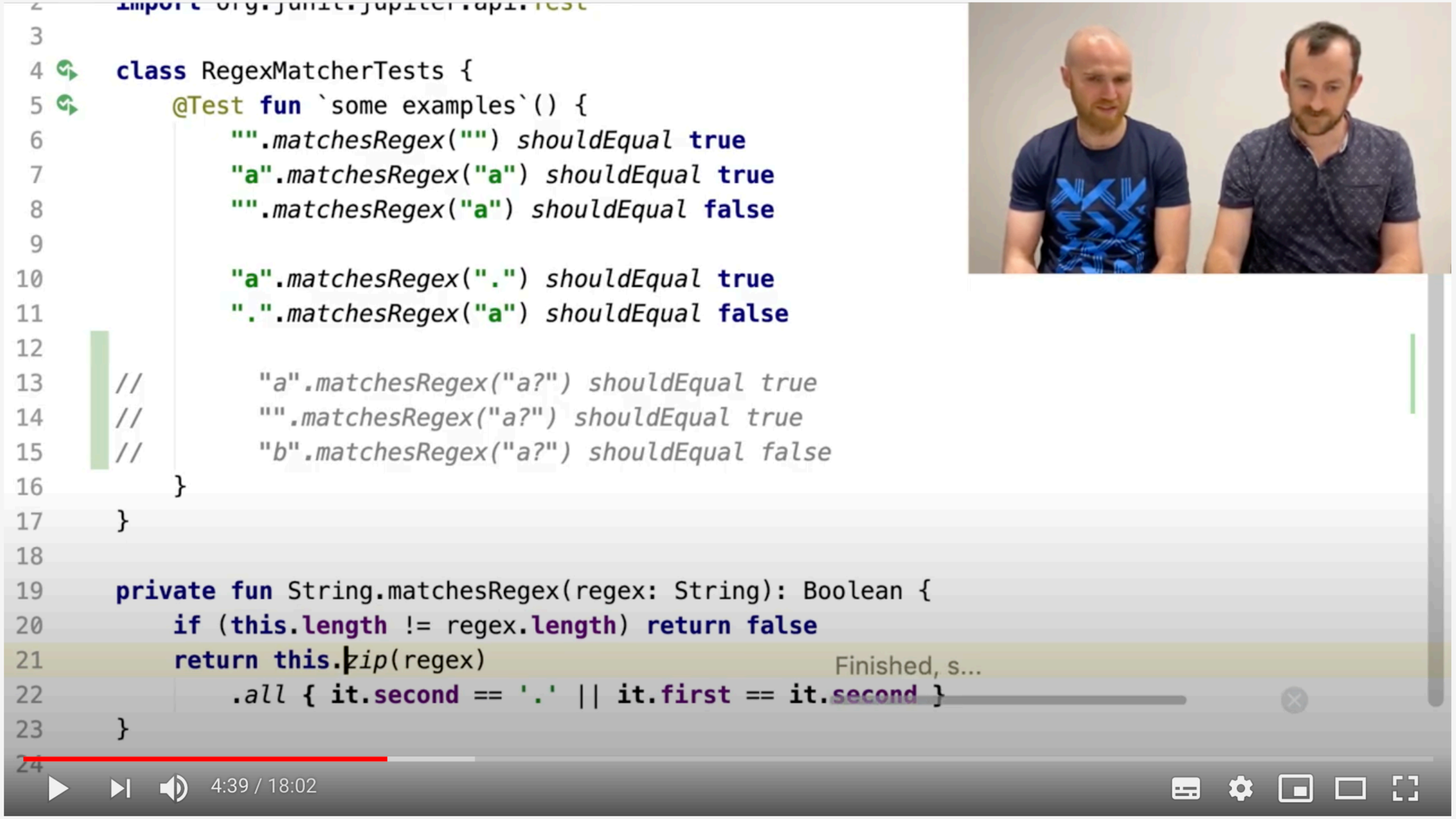
TCR test && commit || revert -- Rope in Python 2/3

Kent Beck

4 

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

Kent Beck



#LiveCoding #Kotlin #TCR

Regex matcher using TCR with Jordan Stewart

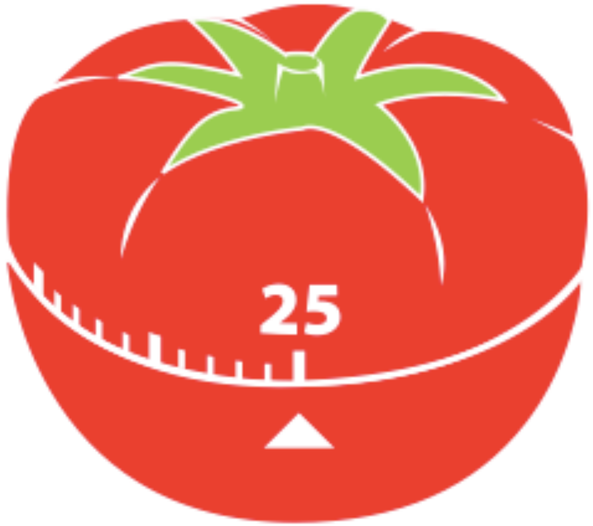
Part 3

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

★ ★ ★ ★ ★

Dmitry Kandalov

Install to IDE

Compatible with all IntelliJ-based IDEs

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?

Darklang?

Source code and links

https://github.com/dkandalov/limited-wip-for-devs

The End

@dmitrykandalov

github.com/dkandalov

youtube.com/dkandalov