

# Gilded Rose

# Refactoring

# Kata

@dmitrykandalov  
KotlinConf23





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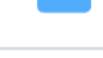
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 Ada	Renames README files consistently.		5 years ago	
 C	only need one item in array		2 years ago	
 COBOL	Add add script that helps you add items		6 months ago	
 Delphi	Add .res files to .gitignore		3 years ago	
 Groovy	Added Gradle to Groovy project.		7 months ago	
 Java-Approvals	Migrated to apache maven wrapper		2 years ago	
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 Java	make the gradle task for texttest slightly easier to use		3 months ago	
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 TypeScript	Add vitest inside TypeScript		last month	
 abap	starting code and tests for ABAP		7 years ago	

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Starting code for the GildedRose Refactoring Kata in many programming languages.

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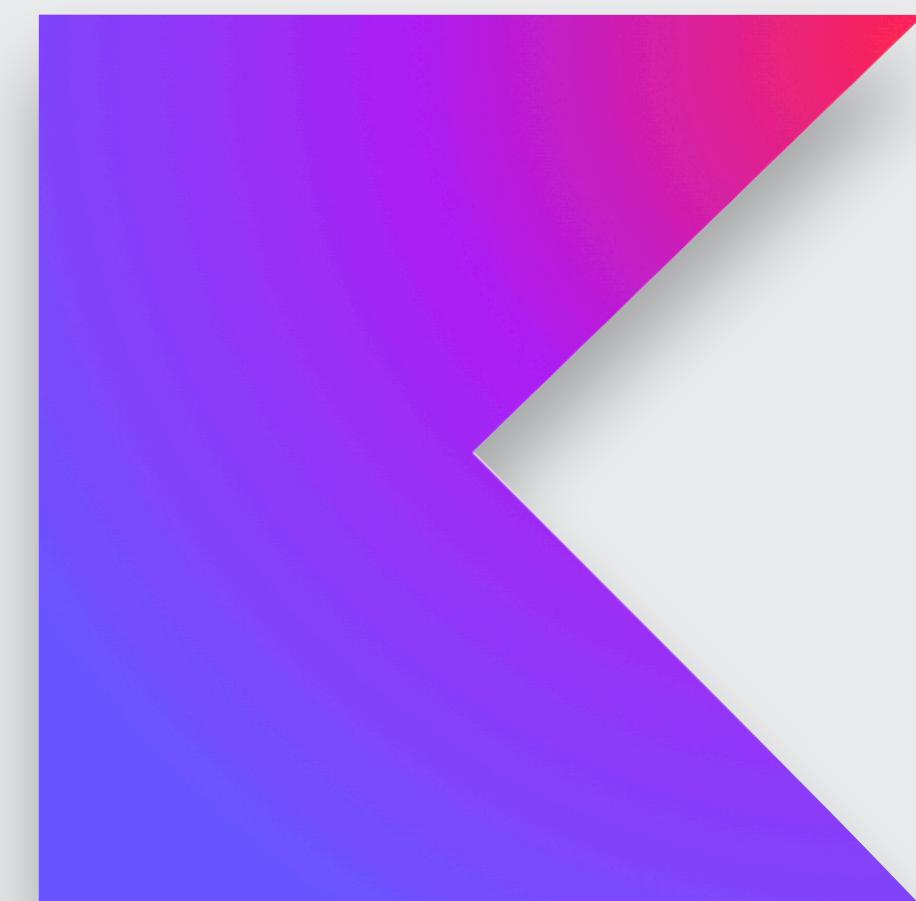
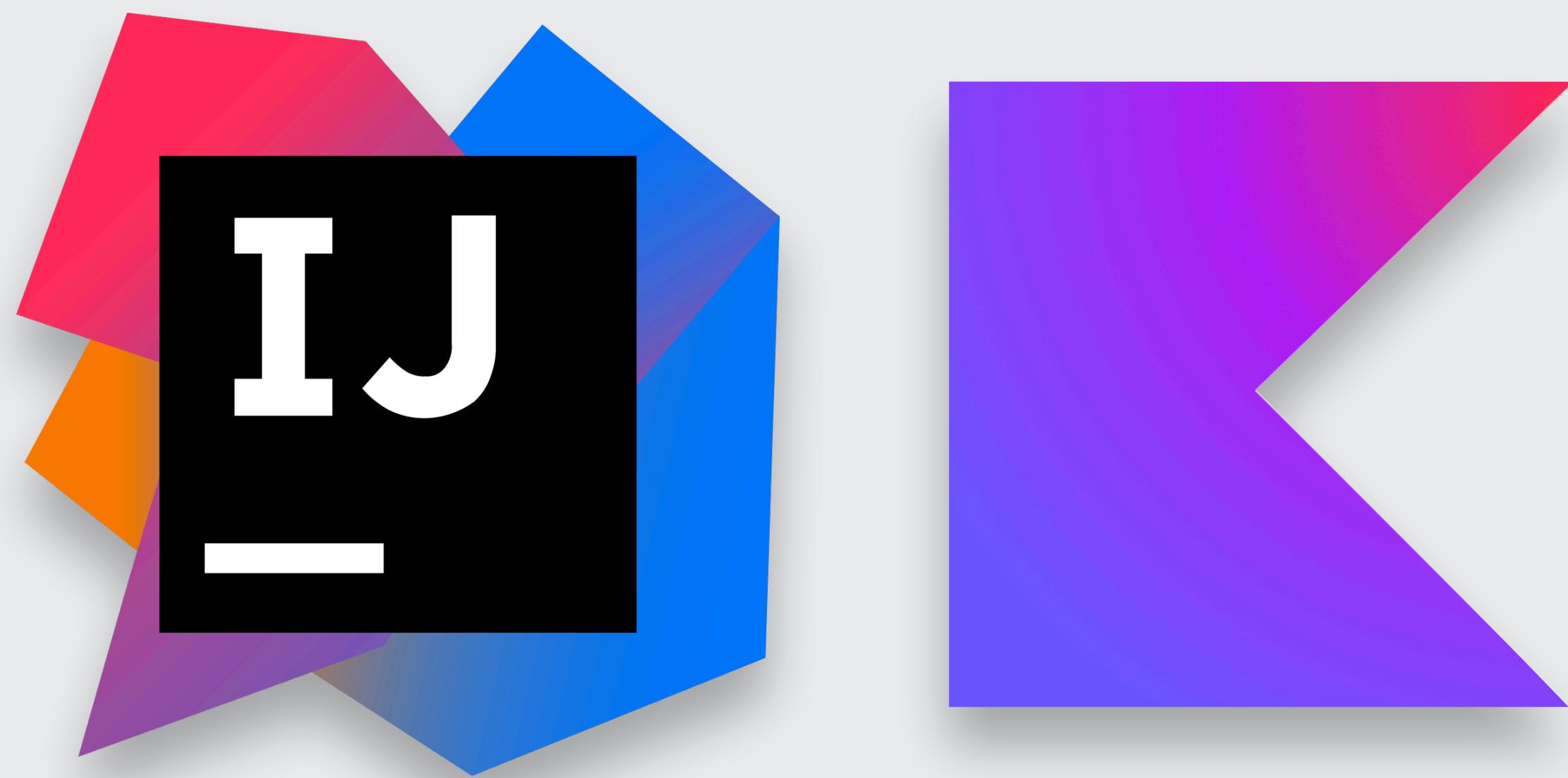
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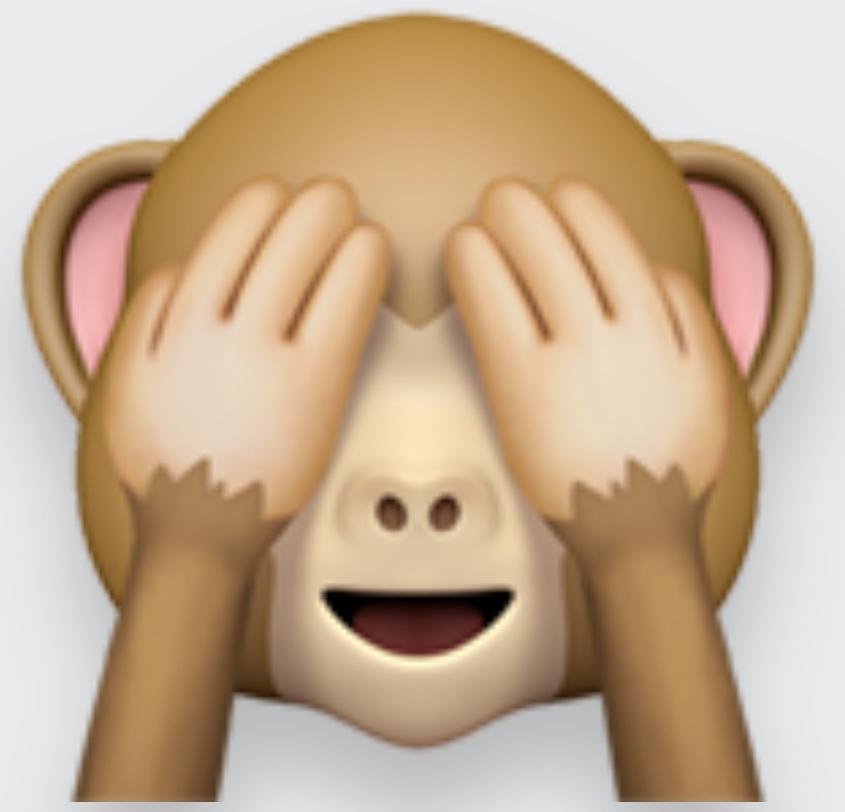
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**<https://github.com/dkandalov/gilded-rose>**



# Mini-retro

# **what did we do?**

# What did we do?

- Regression test

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# **What did we learn?**

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- Discovering design via refactoring
- IDE refactorings took us quite far
- Refactorings hidden as intentions
- Keep code compiling and tests green
- Tidy until the code is ready to change

# Mechanics

# Mechanics

- **IJKL shortcuts for navigation**



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dkandalov removed zip

3131ca4 on Mar 12, 2022 148 commits



gradle/wrapper

gradle 7.4

last year



resources

plugin version 1.18

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src/ijkl

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test/ijkl

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.gitignore

added .gitignore

3 years ago



build.gradle.kts

org.jetbrains.intellij 1.4.0

last year



gradle.properties

gradle 7.4

last year



gradlew

added gradle wrapper

6 years ago



gradlew.bat

added gradle wrapper

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settings.gradle.kts

settings as .kts

6 years ago



todo.md

plugin version 1.18

last year



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IJKL shortcuts plugin

## About

IJKL keyboard shortcuts plugin for jetbrains IDEs

[plugins.jetbrains.com/plugin/9852-ijkl...](https://plugins.jetbrains.com/plugin/9852-ijkl...)

navigation

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## Releases 8

v0.18 Latest

on Mar 12, 2022

+ 7 releases

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## Languages

Kotlin 100.0%

**Alt+I – Up**

**Alt+J – Previous word**

**Alt+K – Down**

**Alt+L – Next word**

**Alt+U – Line start**

**Alt+O – Line end**

**Alt+N – Left**

**Alt+M – Right**

**Alt+Shift+I – Up with selection**

**Alt+Shift+J – Previous word with selection**

**Alt+Shift+K – Down with selection**

**Alt+Shift+L – Next word with selection**

**Alt+Shift+U – Line start with selection**

**Alt+Shift+O – Line end with selection**

**Alt+Shift+N – Left with selection**

**Alt+Shift+M – Right with selection**

**Alt+H – Jump to source**

**Alt+B – Back**

**Alt+, – Previous method**

**Alt+. – Next method**

**Alt+/- Cycle expand word**

# Mechanics

- IJKL shortcuts for navigation
- Alt-enter everywhere!
  - invert/split/merge `if`
  - lift assignment/function call

# Mechanics

- **IJKL** shortcuts for navigation
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- **F2 - next warn/error; F1 - quick fix**



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## About

[plugins.jetbrains.com/plugin/16366-q...](https://plugins.jetbrains.com/plugin/16366-quick-fix)

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## Releases

1.5 Latest

on Dec 19, 2022

+ 6 releases

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## Contributors

dkandalov Dmitry Kandalov

p10r Philipp Mayer

readme.md



This is a plugin for IntelliJ IDEs which:

1. Adds **Quick Fix** action to apply the first available quick fix because **alt+enter**, **enter** is too many key presses when you already know that the top inspection will do what you want.

## Languages

# Mechanics

- IJKL shortcuts for navigation
- Alt-enter everywhere!
  - invert/split/merge `if`
  - lift assignment/function call
- F2 - next warn/error; F1 - quick fix
- Learn one thing at a time

# Why refactor...

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- if chatbots will write code for us?
- instead of getting it right in the first place?
- if it will be rewritten in X years?
- if someone else writes bad code faster?

# Why refactor...

Because it's meta-programming  
at design time!

# Links

**<https://github.com/dkandalov/gilded-rose>**



*The Addison-Wesley Signature Series*

*"Any fool can write code that a computer can understand.  
Good programmers write code that humans can understand."*  
—M. Fowler (1999)

MARTIN FOWLER  
Martin Fowler  
SIGNATURE BOOKS

# REFACTORING

Improving the Design of Existing Code

---

Martin Fowler

*with contributions by*  
Kent Beck



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## in Kotlin

Written by you



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—M. Fowler (1999)

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# REFACTORING

## in Kotlin with chatbots

Written by you



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## Why I Came to Write "Tidy First?"

Software design is a sharp tool. Some folks don't know they can wield it. Some folks who wield it grab it by the blade, not the handle. That's one big reason why I'm writing about software design. It goes back to my personal mission statement: help geeks feel safe in the world.

KENT BECK MAR 24 ♡ 26 💬 5 ↑

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Alex Xu



**Basta's Notes**

Matt Basta



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Anna Goodman



**So Here's a Thing**

Michael Marshall Smith



**The Pragmatic Engineer**

Gergely Orosz

## How I Came To Write "Tidy First?"

Taking a software design course in college (Go Ducks!), we used Ed Yourdon (RIP) & Larry Constantine's book Structured Design as a text. (This was...

KENT BECK MAR 21 ♡ 47 💬 5 ↑

## Fool Proof Design

Why do we change the design of the software? So we can change the behavior of the software more easily. If we didn't need to change the behavior, we...

KENT BECK MAR 17 ♡ 23 💬 4 ↑

## Accountability is Not Blame

accountable, adjective, "required to render account" Tidy First? starts with, "Software design is an exercise in human relationships." Since human...



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Book



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Now that I'm taking this seriously, I need subscribers. If you ...

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HTTP and HTML Hacking  
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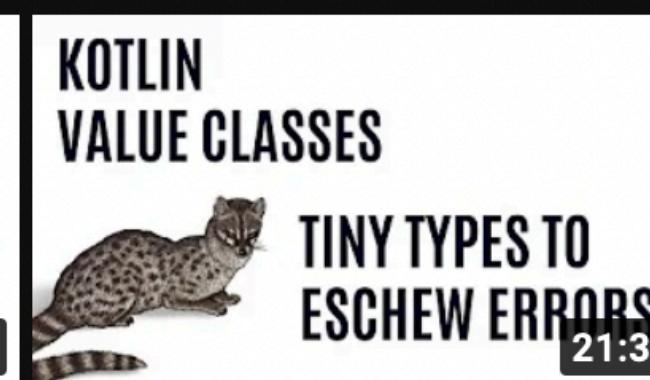
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# OPEN-CLOSED PRINCIPLE

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## How to Refactor Using the Open-Closed Principle



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The Gilded Rose (<https://github.com/emilybache/GildedR...>) is a classic refactoring kata, available in many languages. Dmitry Kandalov recently published a video ( · Gilded Rose Refac... ) showing an excellent



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## Dmitry Kandalov

@DmitryKandalov 465 subscribers 29 videos

Dmitry has been programming since DOS times. >

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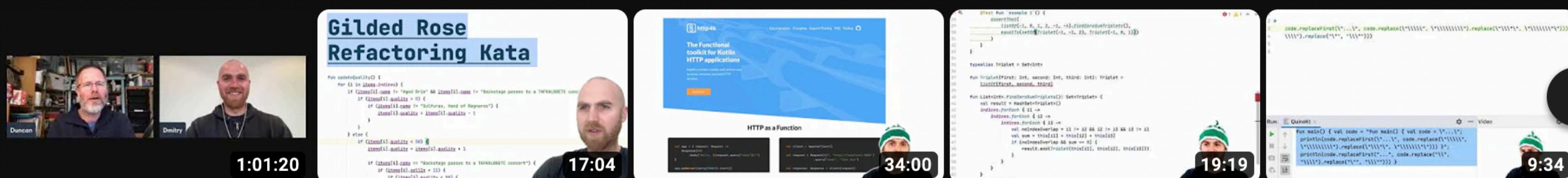
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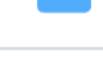
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