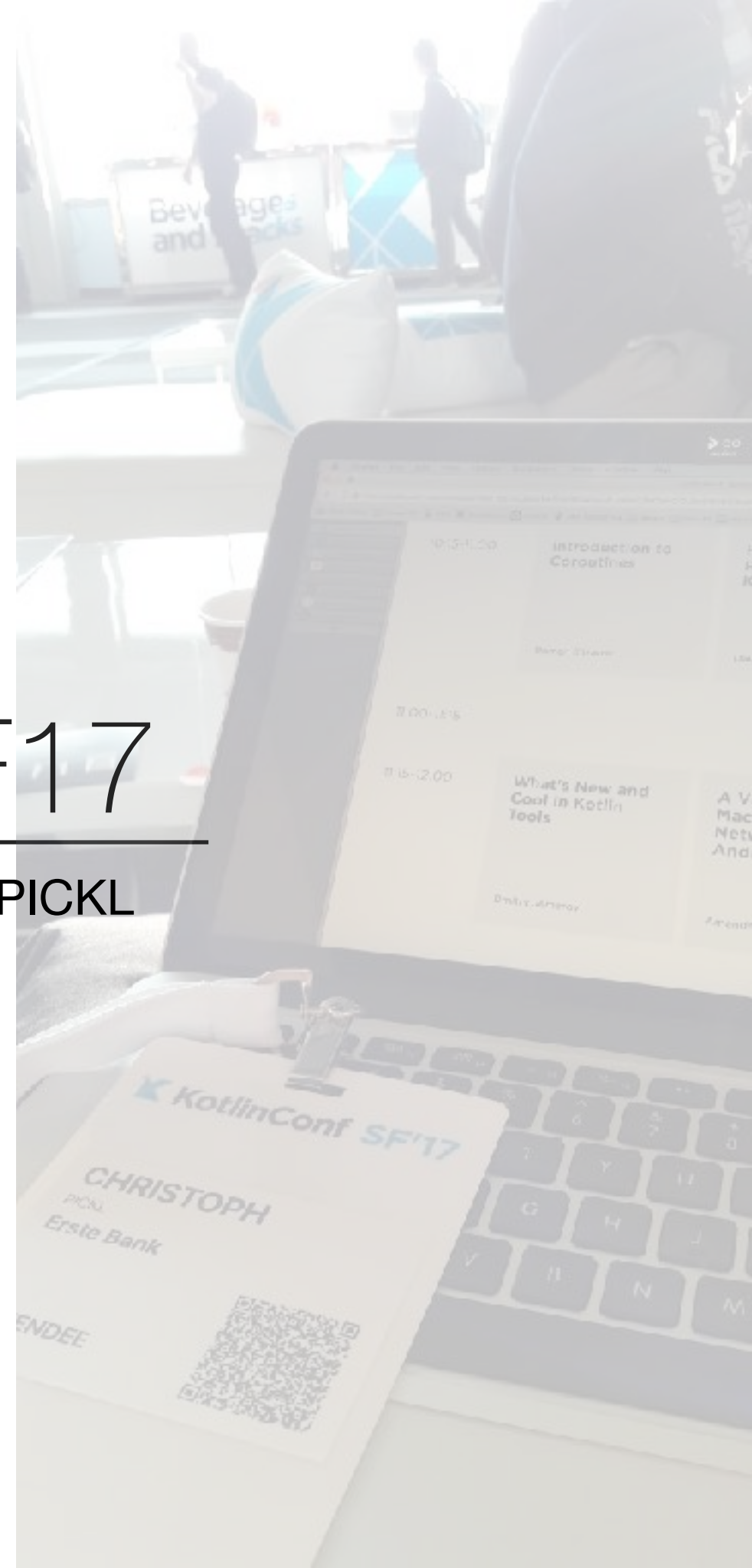




# KOTLINCONF17

IMPRESSIONS BY CHRISTOPH PICKL





Rudelprogramming?



Bookclub?

First Kotlin conference ever!

3 Tracks

2 Days

Upfront Workshops

1200 attendees (Sold out!)



**KotlinConf**

**2-3 NOV. 2017**  
**SAN FRANCISCO,**  
**PIER 27**

THE VENUE







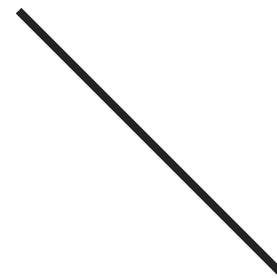


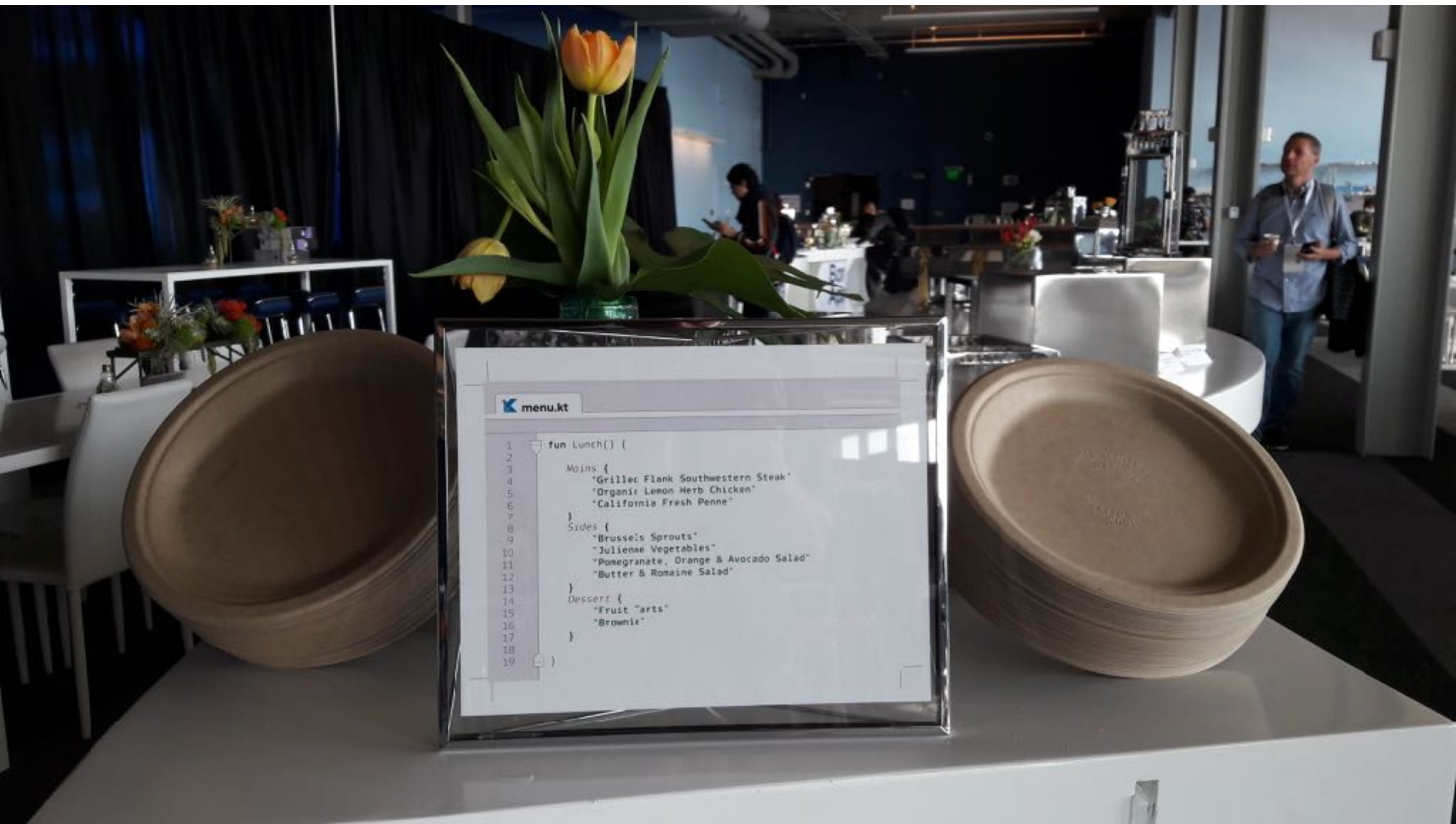






THE FOOD





menu.kt

```
1 fun Lunch() {  
2  
3     Mains {  
4         "Grilled Flank Southwestern Steak"  
5         "Organic Lemon Herb Chicken"  
6         "California Fresh Penne"  
7     }  
8     Sides {  
9         "Brussels Sprouts"  
10        "Julienne Vegetables"  
11        "Pomegranate, Orange & Avocado Salad"  
12        "Butter & Romaine Salad"  
13    }  
14    Dessert {  
15        "Fruit "arts"  
16        "Brownie"  
17    }  
18 }  
19 }
```













**Snacks &  
Beverages**

**#kotlinconf17**

THE PARTY











**I regret nothing.**



**Nothing.**





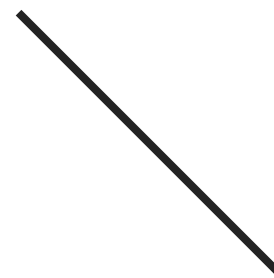








# THE TALKS













# Topics



**Coroutines**

**Android**

**JavaScript**

**Native**

**Project experiences**

**From Java to Kotlin**

**Kotlin Internals**

**Idiomatic Kotlin**

**Functional Kotlin**

**Spring (Boot)**

... my project this and that ...



<put some content here>





# Keynote



- Version **1.2 RC** is released (multiplatform!)
  - Native enables **iOS** apps written in Kotlin
  - Finally introducing **common modules**
- Encourage to use **coroutines**
  - experimental != unstable
- **Google** ❤️ Kotlin
  - Close to 20% apps in Play Store already use Kotlin





# Cords and Gumballs

- (Yet another) lessons learned presentation
- Big seller of Kotlin is its **interop** with Java
  - It's not quite there yet ...
  - Especially when it comes to **heterogenous** projects
  - E.g. **companion** object pollutes intellisense and doc
  - Still lot of **IDE bugs**
- Advanced **generics** can be a PITA sometimes
- **IntelliJ** got lot of "hidden" gems most don't know
- **Dokka** is great

# Bootiful Kotlin

- Spring **Framework** 5 already awesome Kotlin support
- Spring **Boot** 2 will be released in 1-2 months
- **Josh Long** was blazing fast (all live demo!)
  - <https://start.spring.io/>
  - Open project with `idea` command
- Beautiful way to define beans (using DSL)
- Use **expose** library for refactoring safe SQL strings
- Enable some checkbox for Spring Boot run configuration
- Don't forget to add `joda-time` dependency 😊





# Idiomatic Interop



- Yes it's working, but sometimes it's a bit **clumsy**
- `@JvmOverloads`
  - Use builder to avoid "telescope constructor call"
- `@JvmStatic`
- `@file:JvmName("StringUtil")`
- `@Throws`
- **Inlining** not possible for Java => duplicate method
- Use annotations to get **nullable** types straight!!
- Stay with Java **SAMs** (might change in the future)

# Kotlin Types

- @Nullable @CheckForNull @NotNull @Nonnull @NonNull
- *"Anything is Any, but nothing is Nothing."*
- Unit vs Nothing vs void
- Smarter String (regexps)
- read-only != immutable
  - It's still an ArrayList





# Two Stones, One ~~Cup~~ Bird

- Still no guidelines, no "Effective Kotlin" out there
- check non-nullness vs ?.let
- Array<Int> vs IntArray
- Delegates.notNull vs lateinit
- me.isTall vs me.isTall()
- asSequence()
- with vs apply vs let vs also vs run vs T.run
- readability vs performance

## Owly Plush Questions

```
println(3.let { 12 } + 6.run { 9 } +  
9.apply { 6 } + 12.also { 3 })
```

```
println(null  
  .toString()  
  .filter { it != 'l' }  
  .map { if (it == 'n') 'm' else it }  
  .joinToString(separator = ""))
```





# Other/General Insights

- Java **interop** is good, but not perfect
- **Spring** loves Kotlin
- "*Kid in a candy store*" syndrome (no **guidelines** out yet)
  - Opportunistic extension functions  

```
fun String.toGithubUrl() = "https://api.github.com/$this"
```
- **Top level** functions pollute auto-completion
- **Decompile** Kotlin to uncover performance impact
- Enhance functional of Kotlin via **Kategory**



CONCLUSION



# My 0.02 €

Kotlin, an uprising **star** 🌟

**Multiplatform** FTW (1.2) - what about JVM?

But I am also not an **Android** developer 😓

Use (~~unstable~~) **coroutines**?!

Next conference might happen in **Europe** 🇪🇺



# Ups & Downs

- **Beautiful venue**
- **Delicious food**
- **Many goodies**
- **Cheap tickets**
- **Nerds everywhere**
- ***"Office hours"***
- **Diverse topics**
- **VIPs to talk with**
  - **Podium discussion**

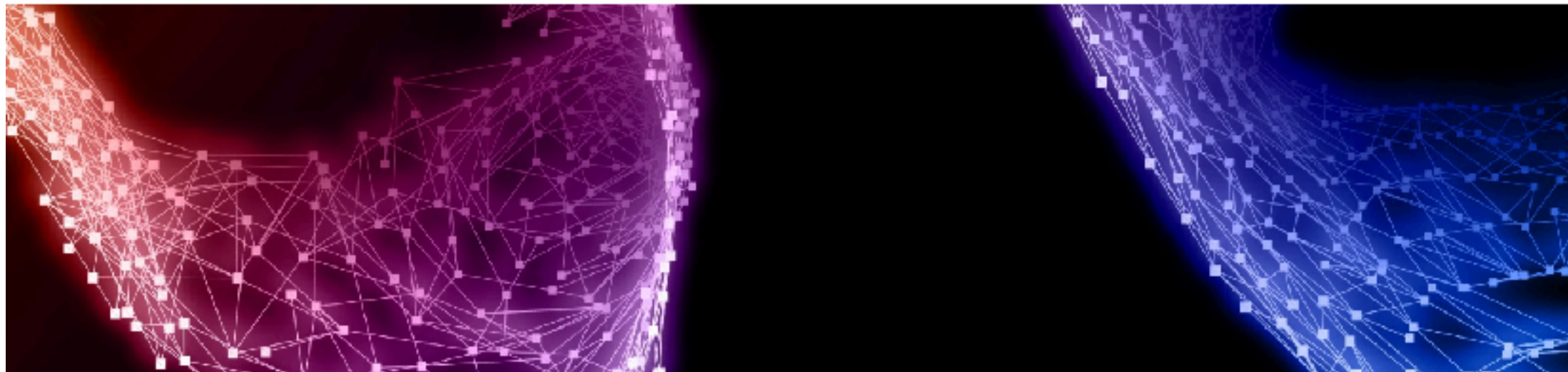
- **Some poor talks**
- **Mostly irrelevant 2 me**
  - **Much general stuff**
- **Crowded sessions**
- **WiFi crashed**
- **SF is damn expensive**





YouTube<sup>AT</sup>

Search



JetBrainsTV

50,238 subscribers

HOME

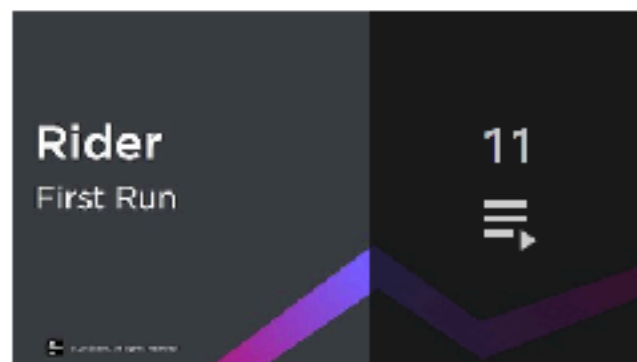
VIDEOS

PLAYLISTS

CHANNELS

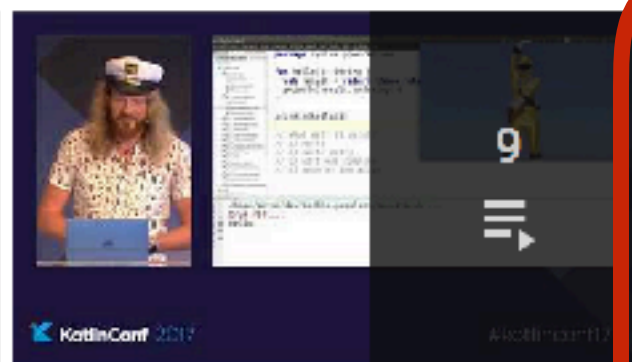
DISCUSSION

### Created playlists



Rider Video Tutorials

Updated today



Liked videos

Updated 5 days ago



KotlinConf 2017

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