

NON-BLOCKING KOTLIN

CO(OL)ROUTINES



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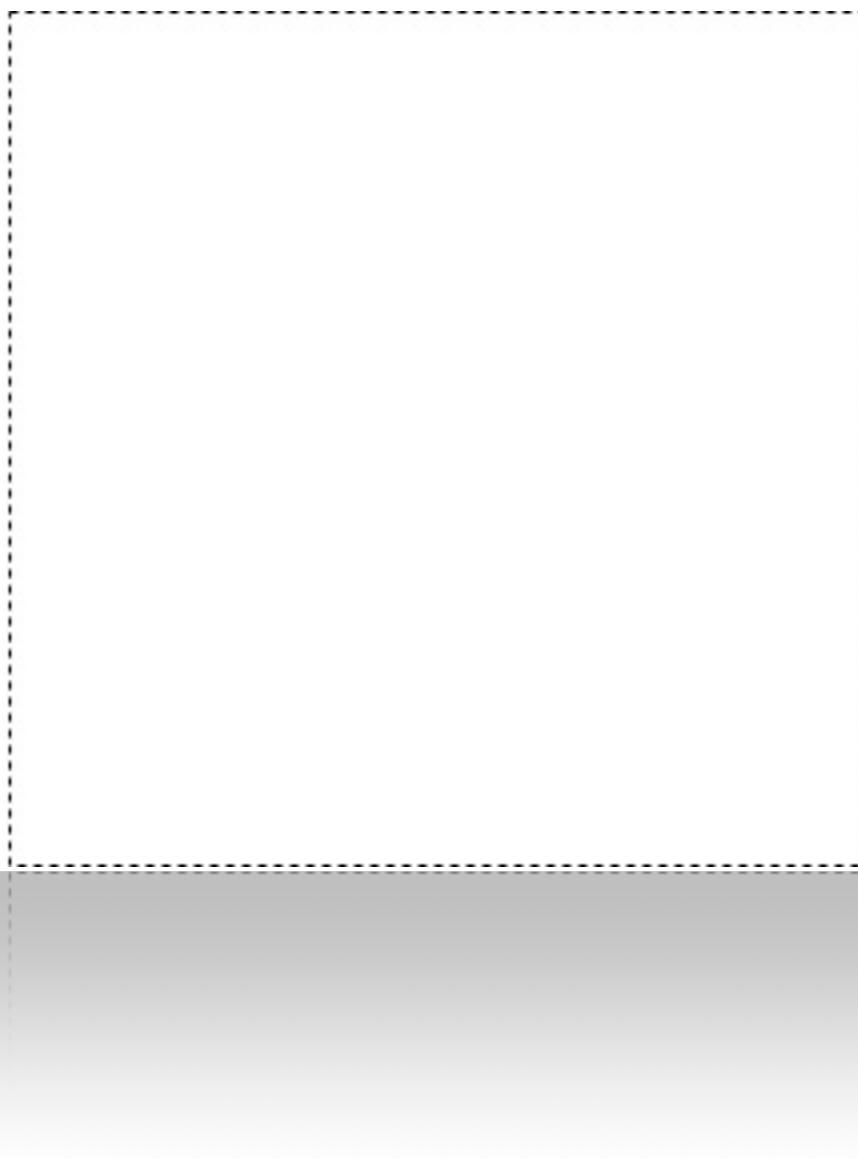
OLA PETERSSON



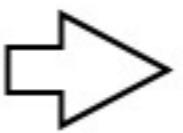
Meltwater Outside Insight

JUNE, 2018
MISSION: TOP SECRET

TOTWOWITOTTOTEROR

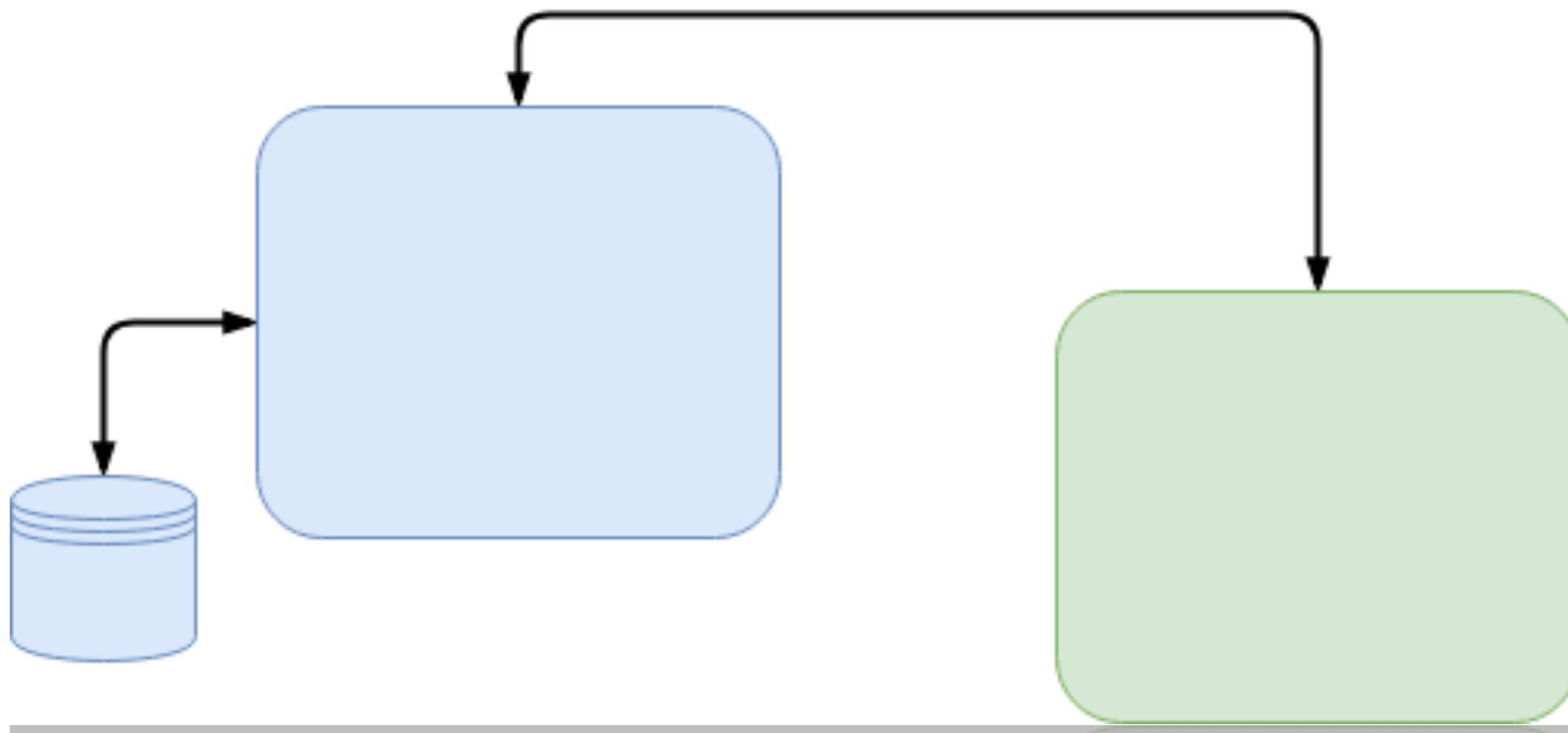


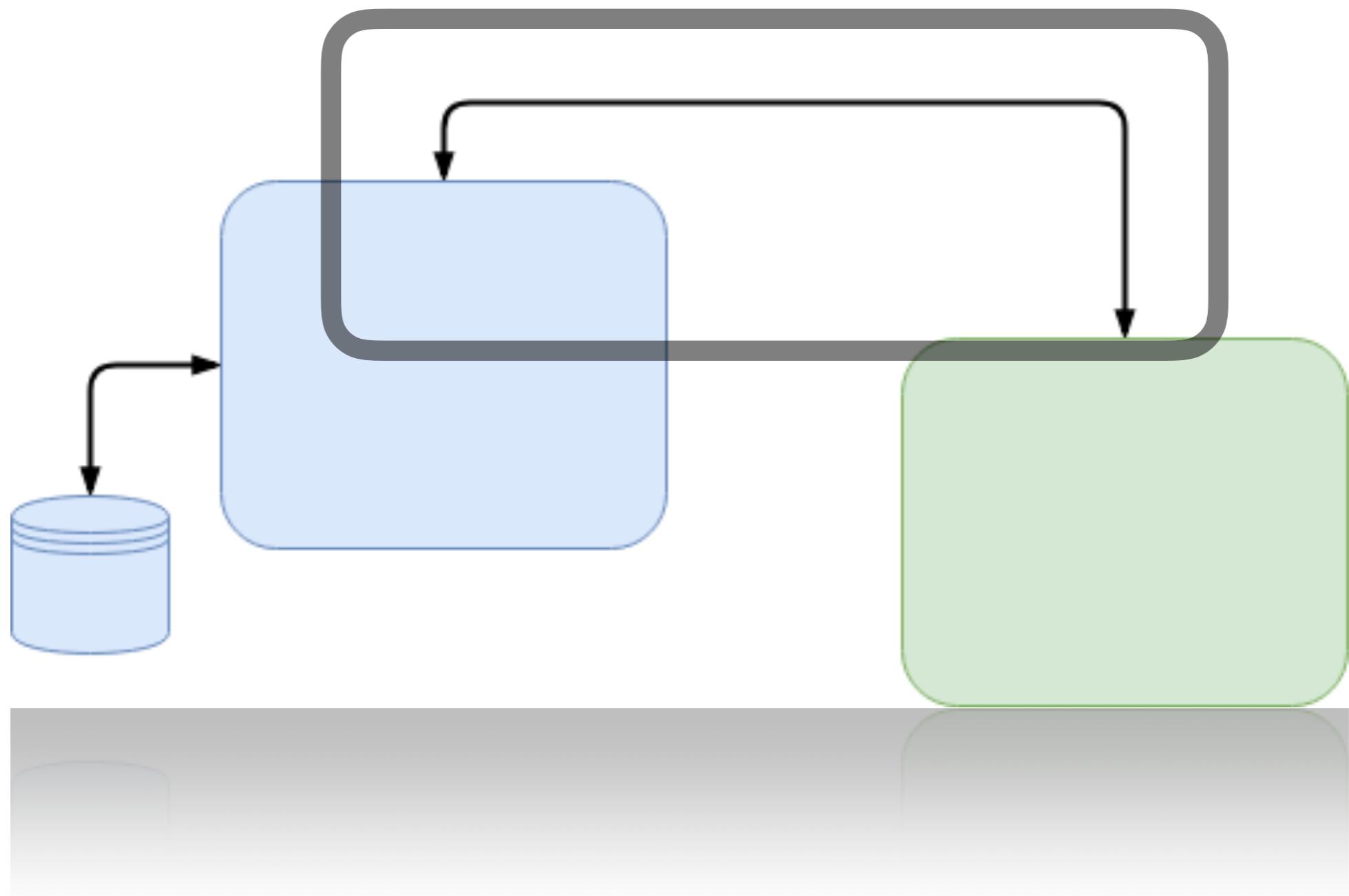
T.W.I.T.T.E.R

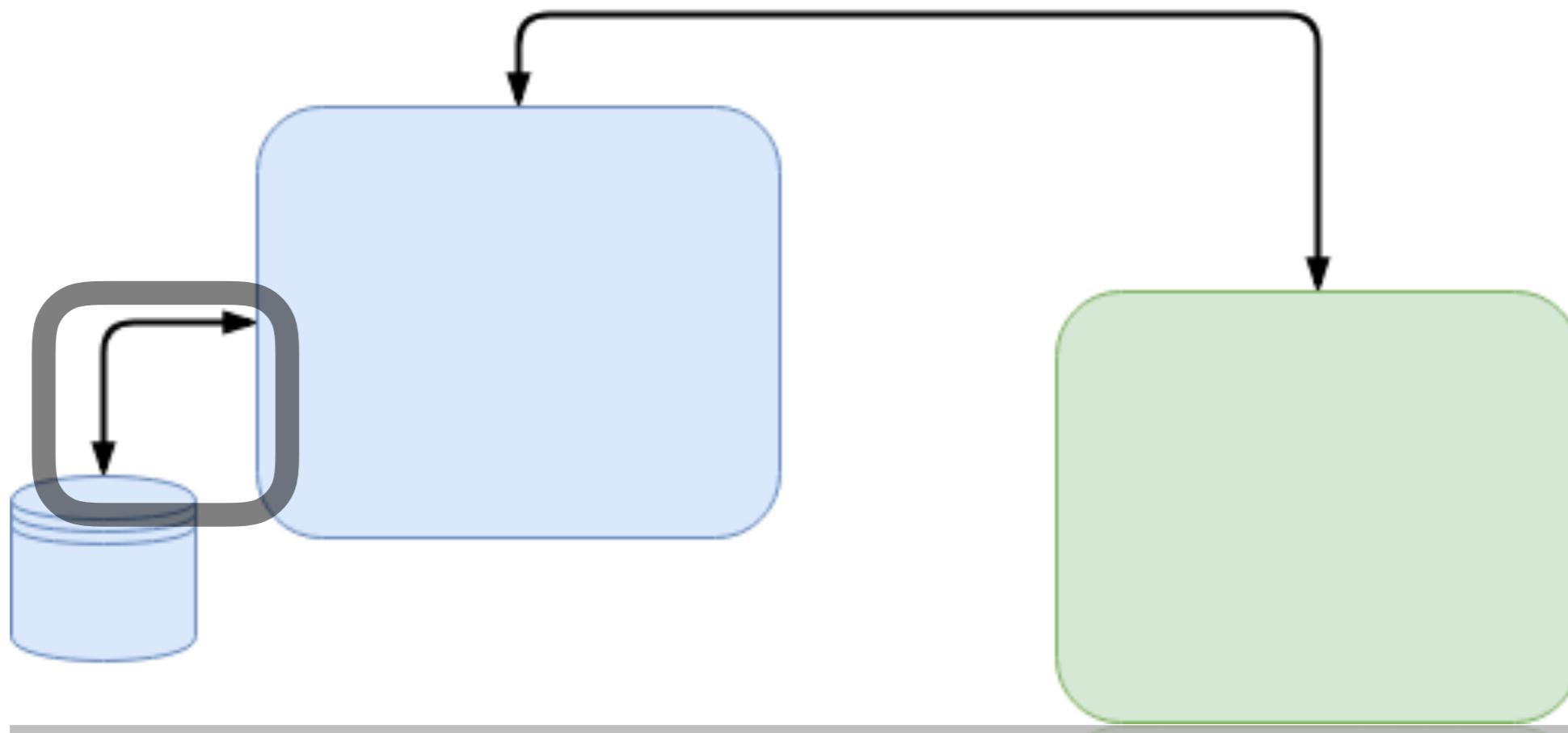


**“EVERY SECOND, ON
AVERAGE, AROUND 6,000
T.W.E.E.T.S. ARE TWEETED
ON T.W.I.T.T.E.R.”**

**SO WE NEED
TO BE FAST**







COROUTINES

**COROUTINES
ARE LIGHTWEIGHT
THREADS**

THREAD



THREAD



COROUTINE



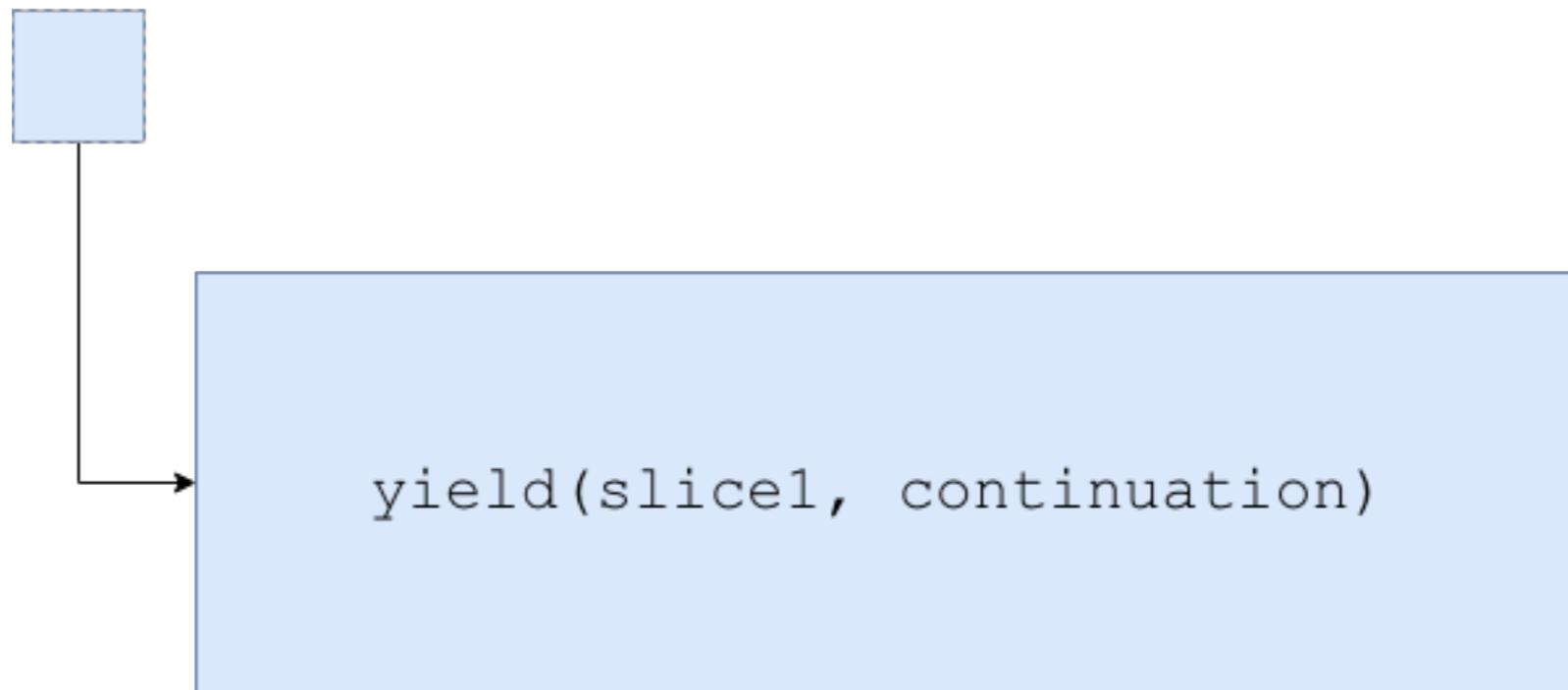
COROUTINE



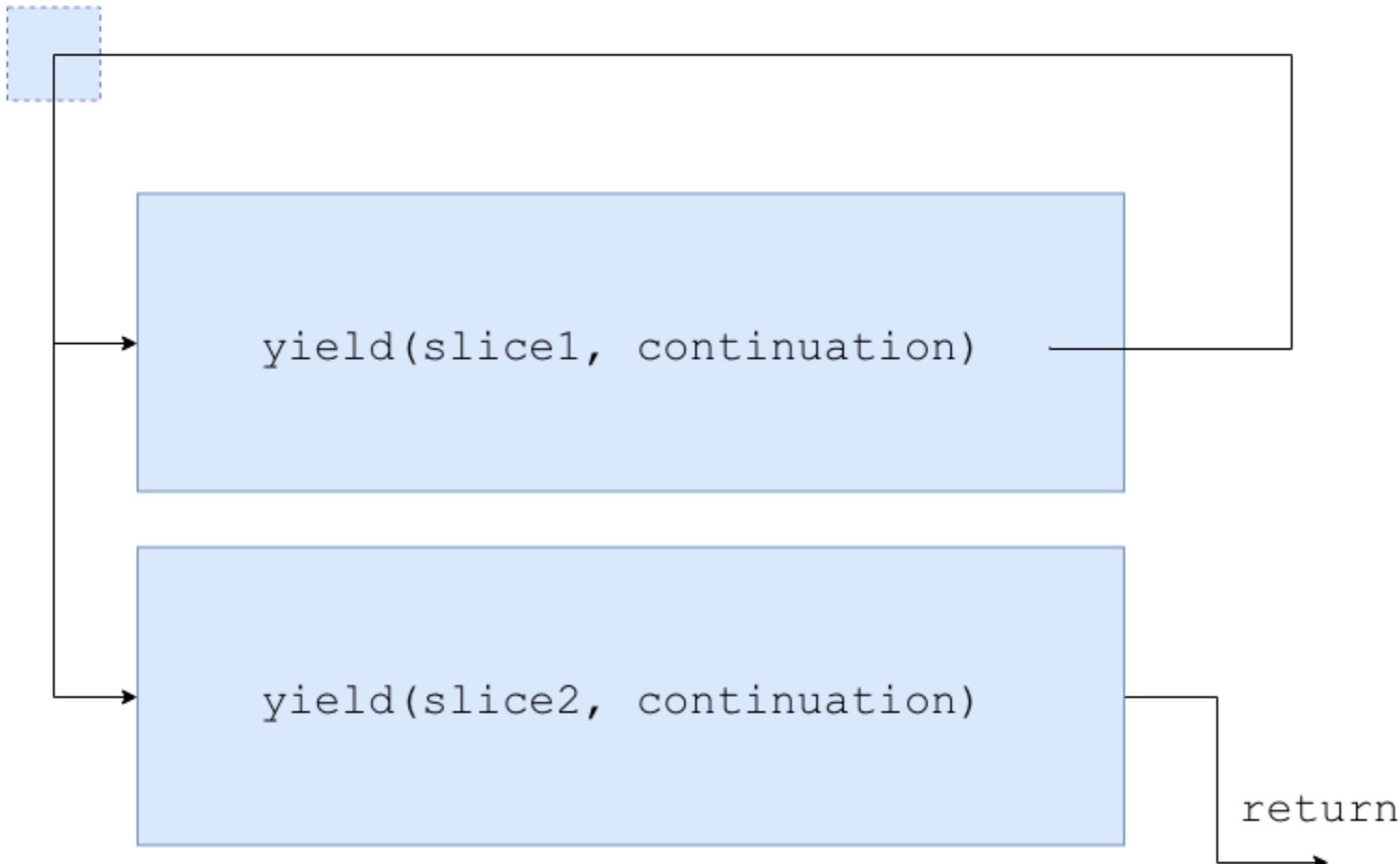
```
@SinceKotlin("1.1")
public interface Continuation<in T> {
    public val context: CoroutineContext
    public fun resume(value: T)
    public fun resumeWithException(e: Throwable)
}
```

```
public static Object getPizzaSlices(@NotNull Continuation c)
```

```
getPizzaSlices(Continuation continuation)
```



```
getPizzaSlices(Continuation continuation)
```



HOW DO WE WRITE ASYNC CODE?

**DO YOU EVEN SPEAK
FUTURE?**

SHARED MUTABLE STATE

COROUTINESCOPE AND LIFECYCLES

NOW WHAT?

STRUCTURED CONCURRENCY
COROUTINE SCOPE
DISPATCHERS (THREAD POOLS)
KTOR - A KOTLIN FRAMEWORK

[HTTP://SLIDES.O LAPETERSSON.SE](http://slides.olapetersson.se)

[HTTP://KOTLIN.O LAPETERSSON.SE](http://kotlin.olapetersson.se)

THANKS!