Creating Aspects

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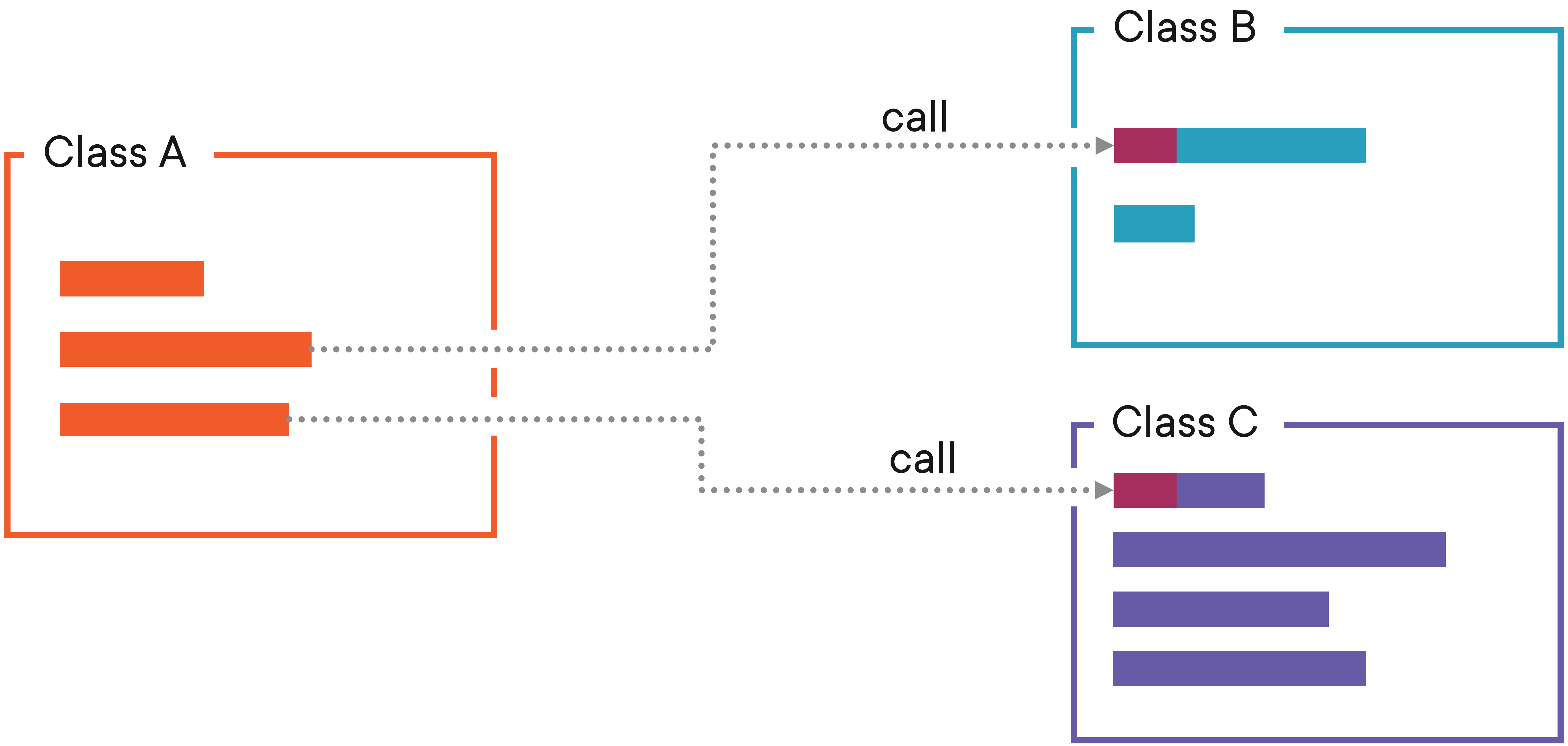
Aspect-oriented Programming

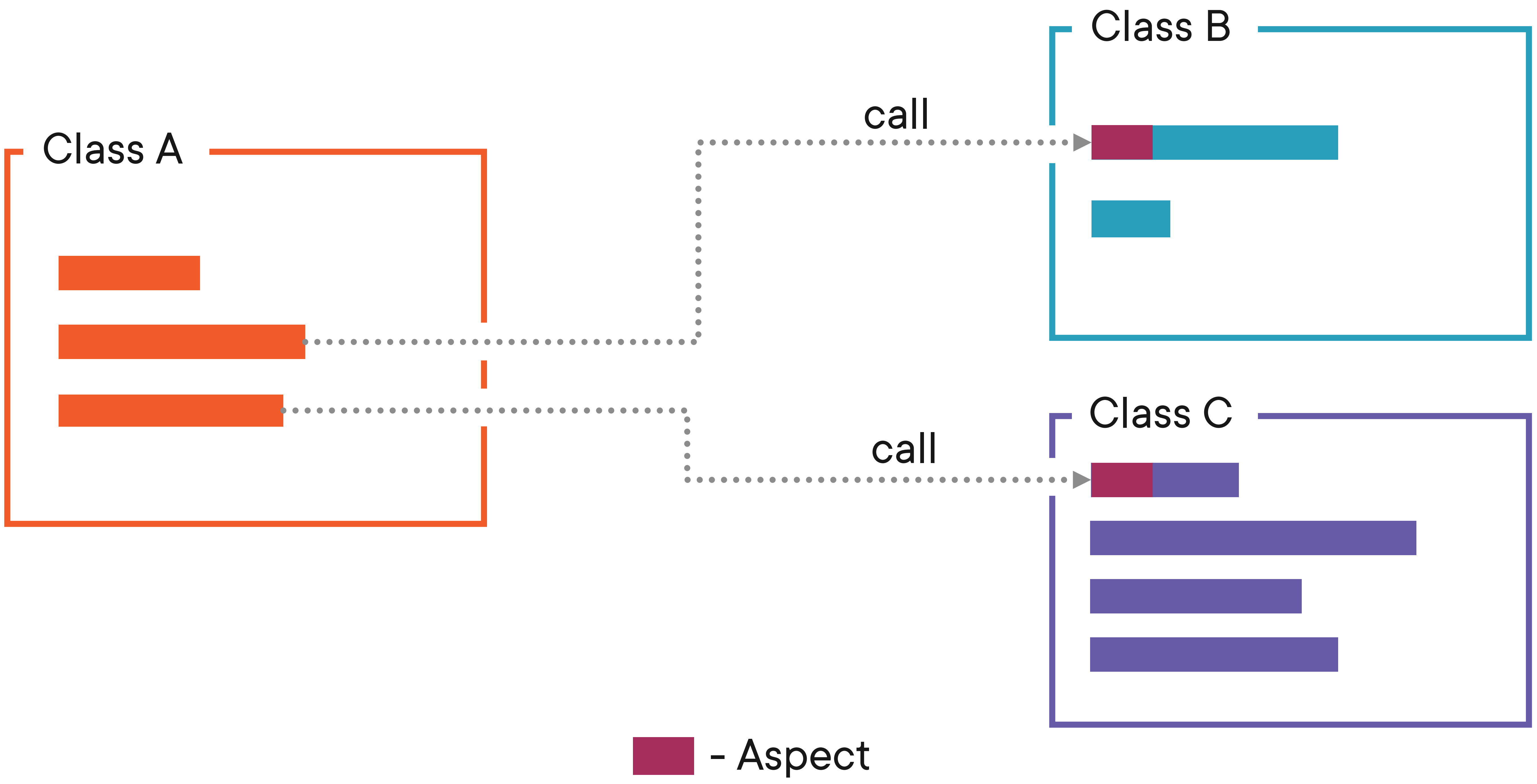
Programming paradigm that aims to increase modularity by allowing the separation of cross-cutting concerns

Citation:
Wikipedia, “Aspect-oriented programming”, https://en.wikipedia.org/wiki/Aspect-oriented_programming

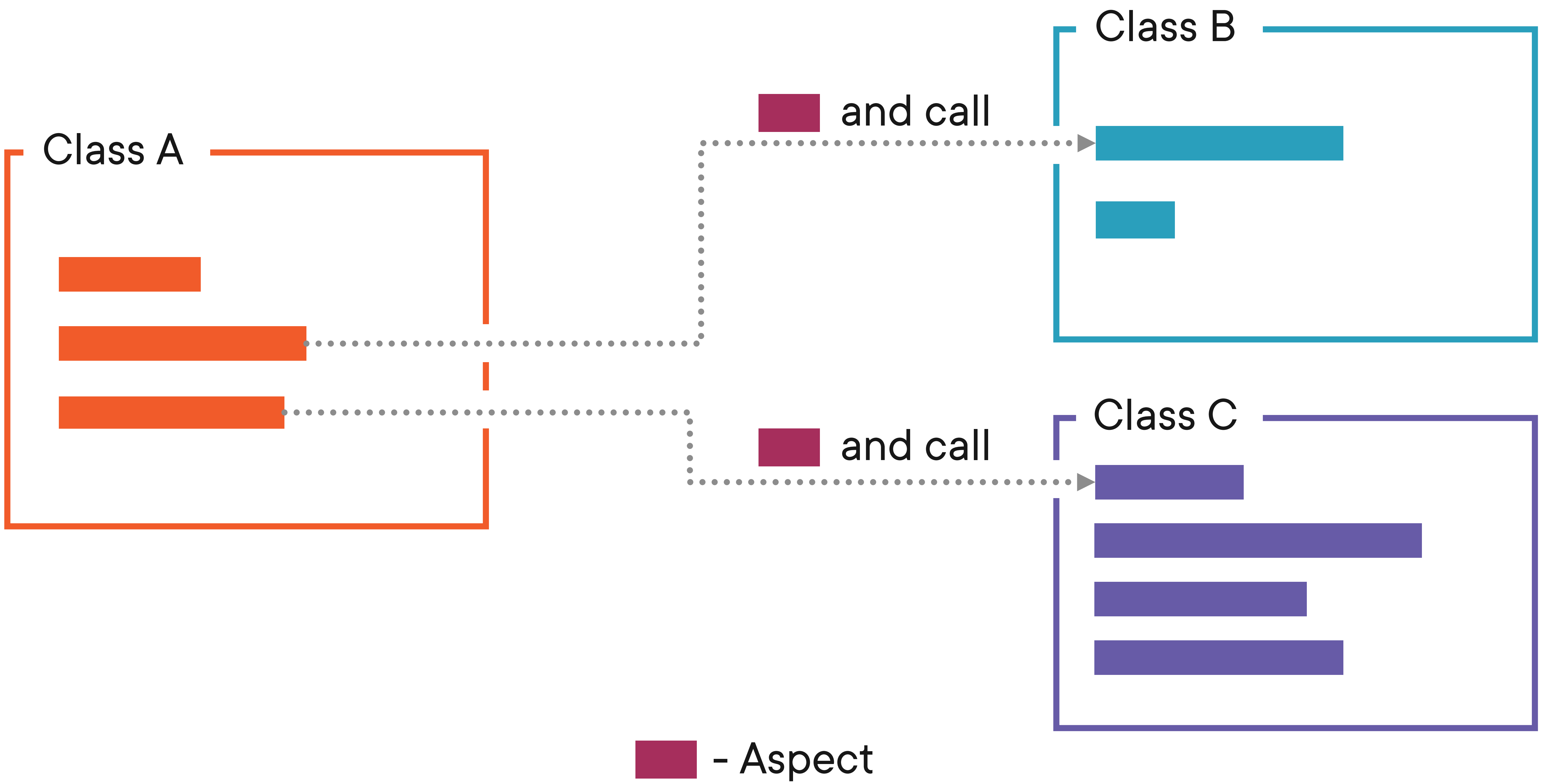
Cross-cutting Concerns



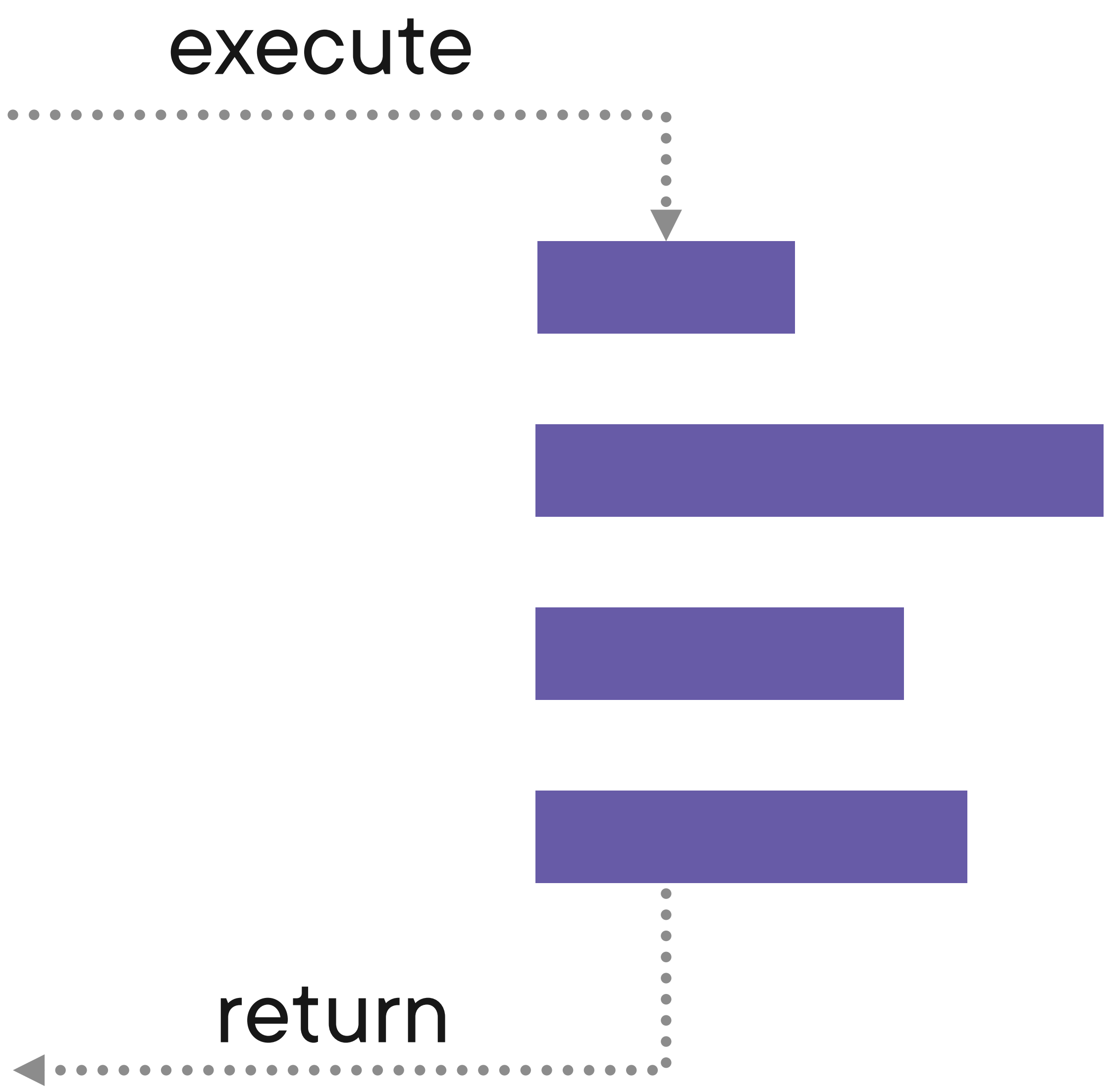
Aspect-oriented Programming



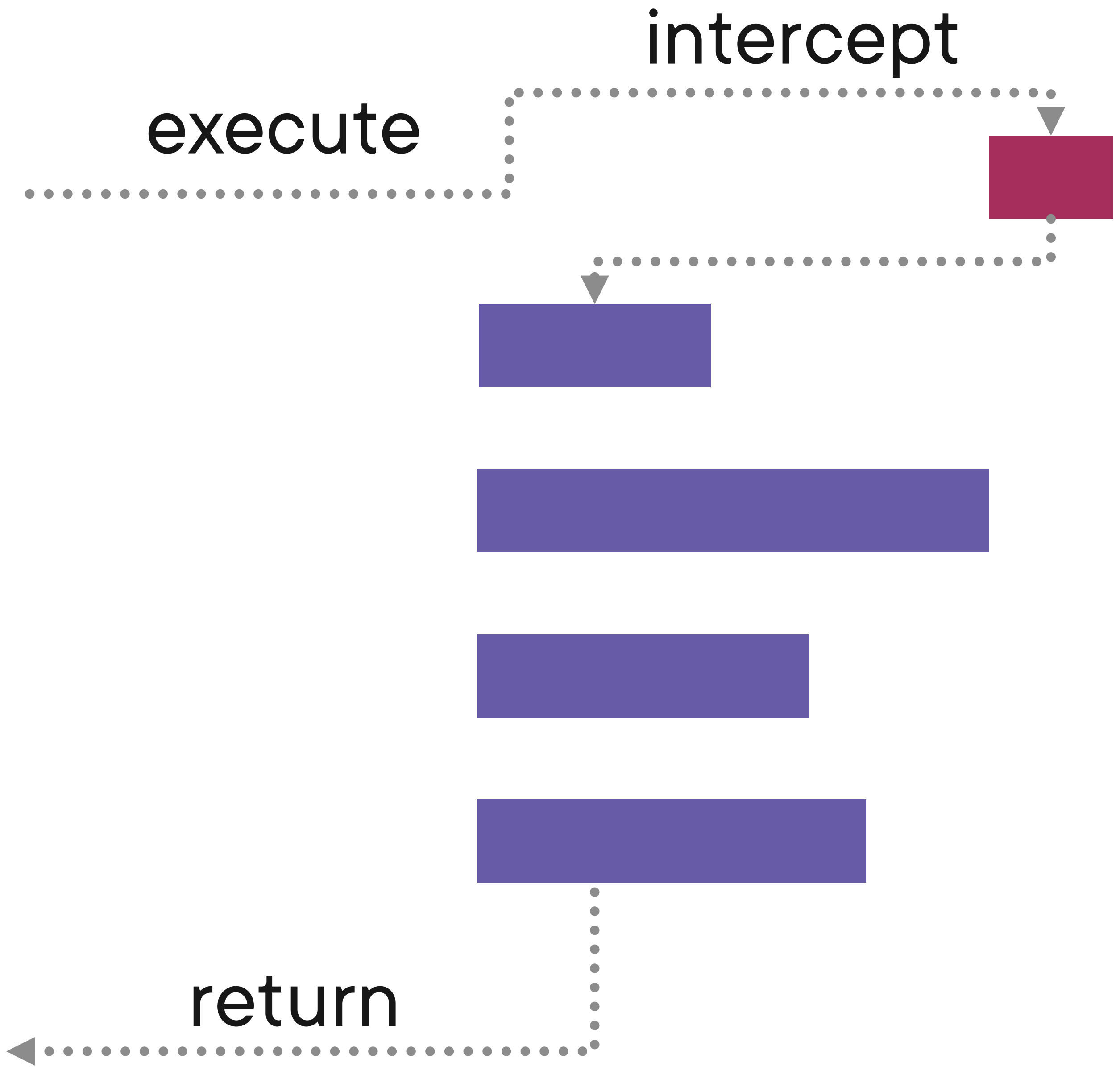
Aspect-oriented Programming



Around Advice



Around Advice



Demo

Create Around Advice

Log method calls

Introduction Advice

Introduction Advice

UpdatesControlCenter.java

```java
interface UpdatesControlCenter {

  String getLatestVersion();

}
```

Introduction Advice

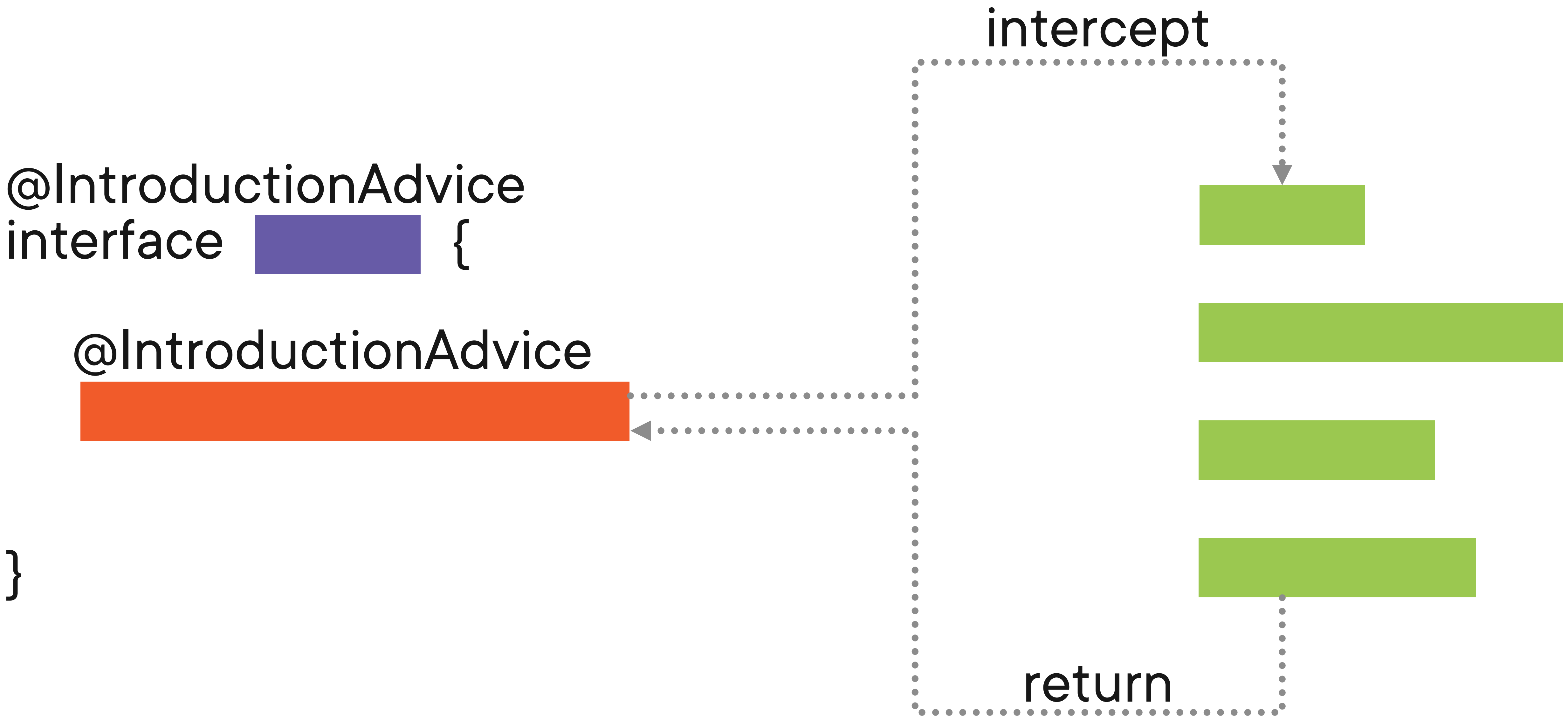
UpdatesControlCenter.java

```java
@Updater
interface UpdatesControlCenter {

  @Updater
  String getLatestVersion();

}
```

Introduction Advice



@IntroductionAdvice

interface {

@IntroductionAdvice

}

Demo

UpdatesClient Introduction Advice

Built-in Advices

Built-in Advices

@EventListener

@Valid

@NotNull

@Min @Max

@Cacheable

@CachePut

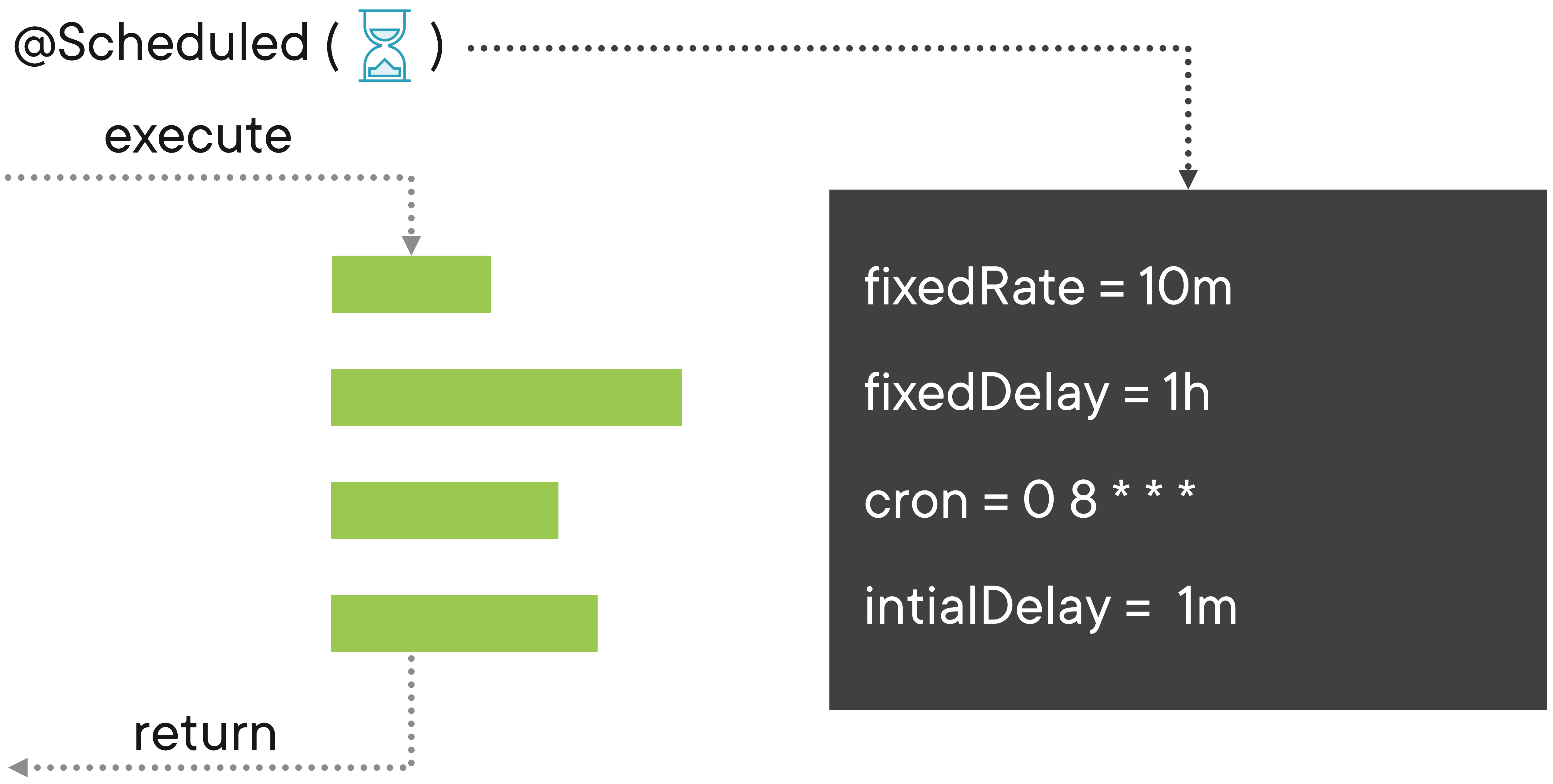
@CacheInvalidate

@Retryable

@CircuitBreaker

@Scheduled

@Scheduled



@Scheduled (⌛)

execute

return

fixedRate = 10m

fixedDelay = 1h

cron = 0 8 * * *

intialDelay = 1m

Demo

Scheduled Task

Up Next:
Building HTTP Servers