

Exploring Project Reactor

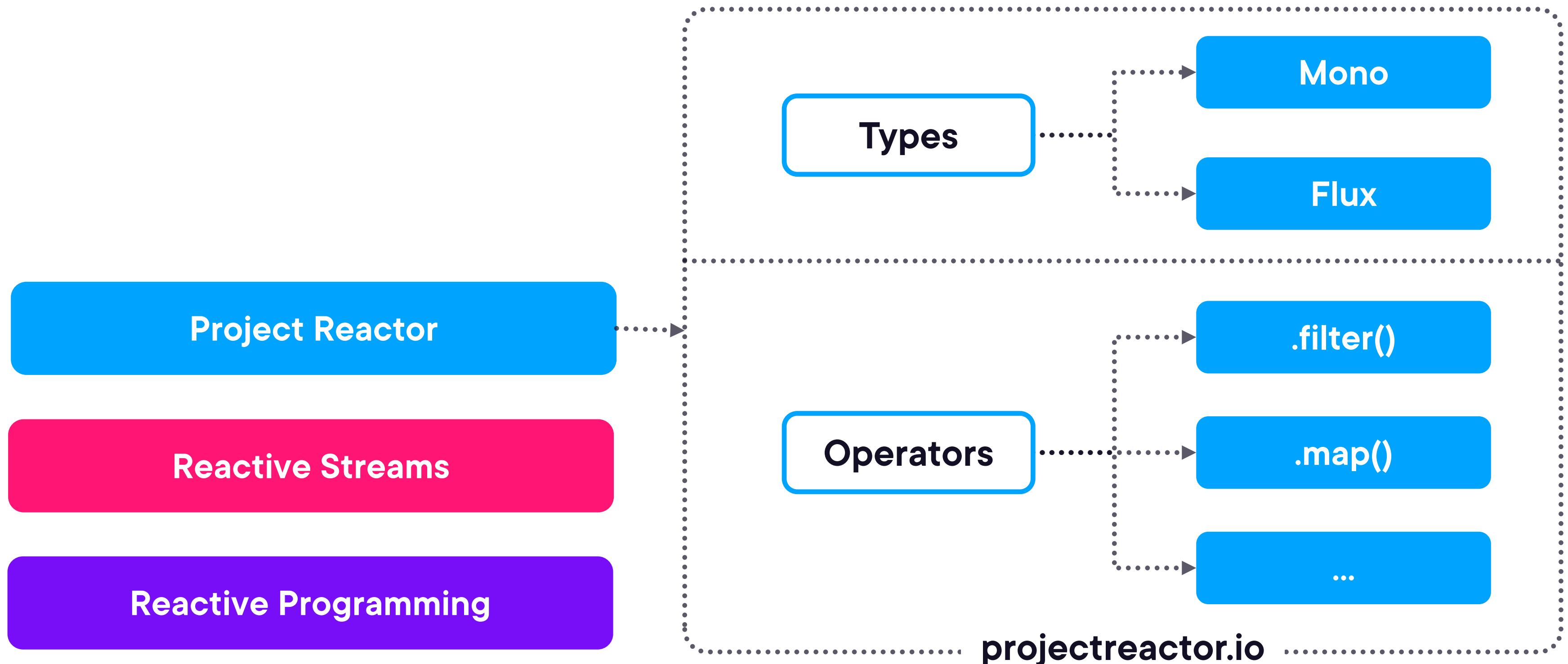


Bogdan Sucaciu

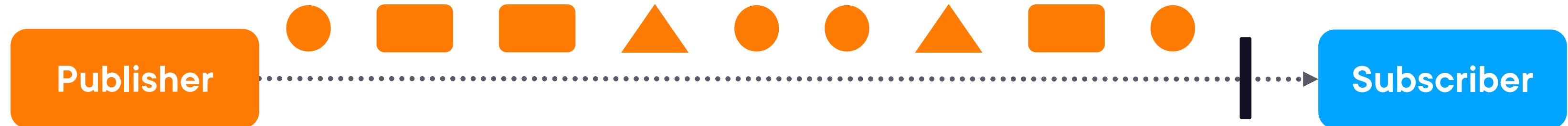
Tech Lead

@bsucaciu | bsucaciu.com

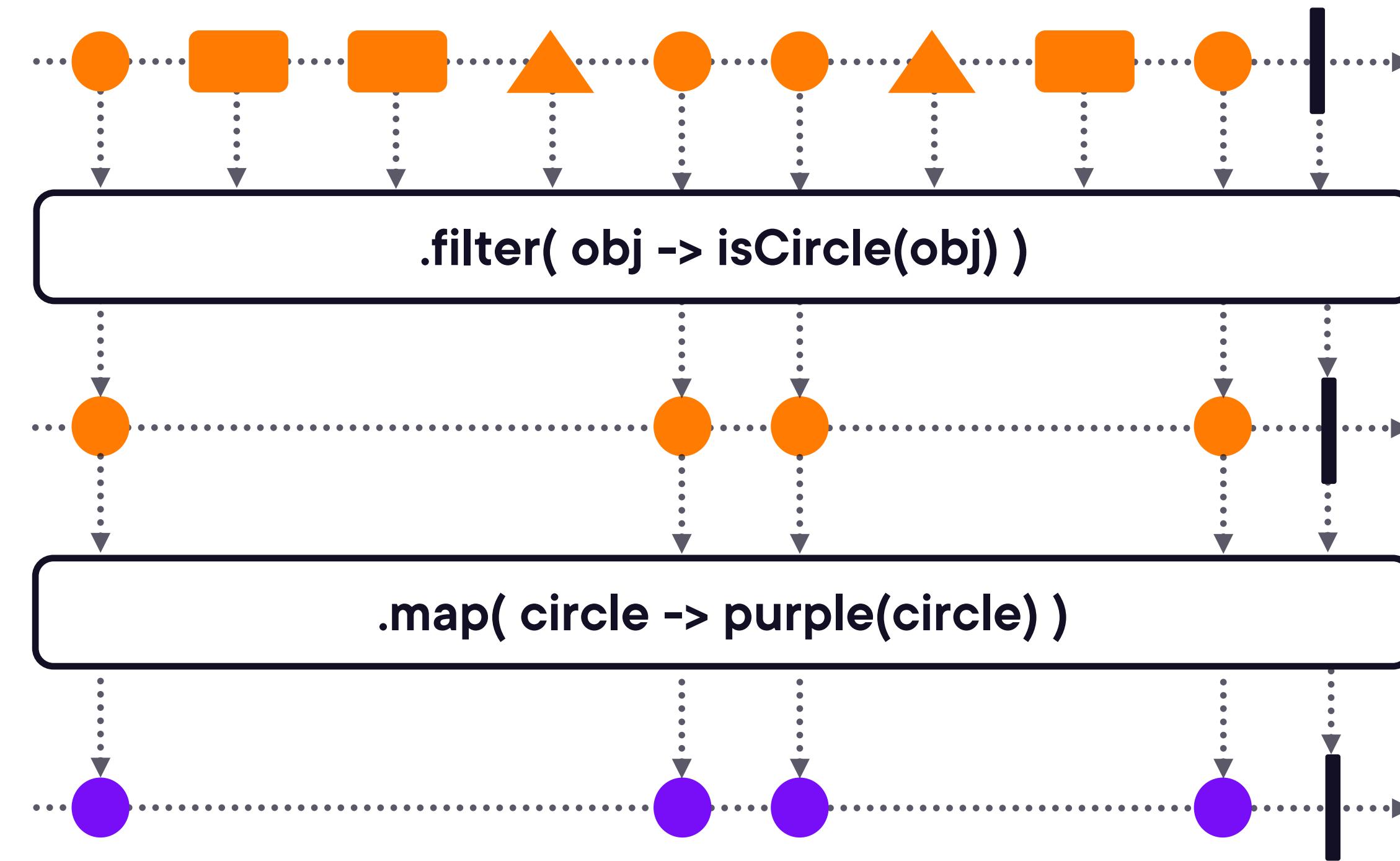
Project Reactor



Project Reactor Operators



Project Reactor Operators



Operator Types

Create

Peek

Split

Filter

Error Handling

Sync

Transform

Time Manipulation

Multicast



Operator Types

Create

Mono

- `.just()`
- `.justOrEmpty()`
- `.fromSupplier()`
- `.fromCallable()`
- `.fromRunnable()`
- `.fromFuture()`
- `.empty()`
- `.error()`
- `.never()`
- `.defer()`
- `.using()`
- `.create()`

Flux

- `.just()`
- `.fromArray()`
- `.fromIterable()`
- `.fromStream()`
- `.range()`
- `.generate()`
- `.empty()`
- `.error()`
- `.never()`
- `.defer()`
- `.using()`
- `.create()`



Operator Types

Create

Peek

Split

Filter

Error Handling

Sync

Transform

Time Manipulation

Multicast

More info: bit.ly/project-reactor-operators



Demo



Reactive data access

Map operator

Filter operator



Error Handling



Error Handling

```
dangerousMethod() {
```



```
}
```



```
.....@ExceptionHandler(SomeException.class)  
ProblemDetail handleEx(SomeException ex )
```



Error Handling

```
try {  
    [REDACTED]  
    [REDACTED]  
}  
catch(SomeException ex) {  
    [REDACTED]  
}  
finally {  
    [REDACTED]  
}
```

`Mono.error(new SomeException())`

`.onErrorReturn(▲)`

`.onErrorResume(ex -> ●)`

`.onErrorMap(ex -> otherEx)`

`.doFinally(signtype -> doStuff())`



Demo



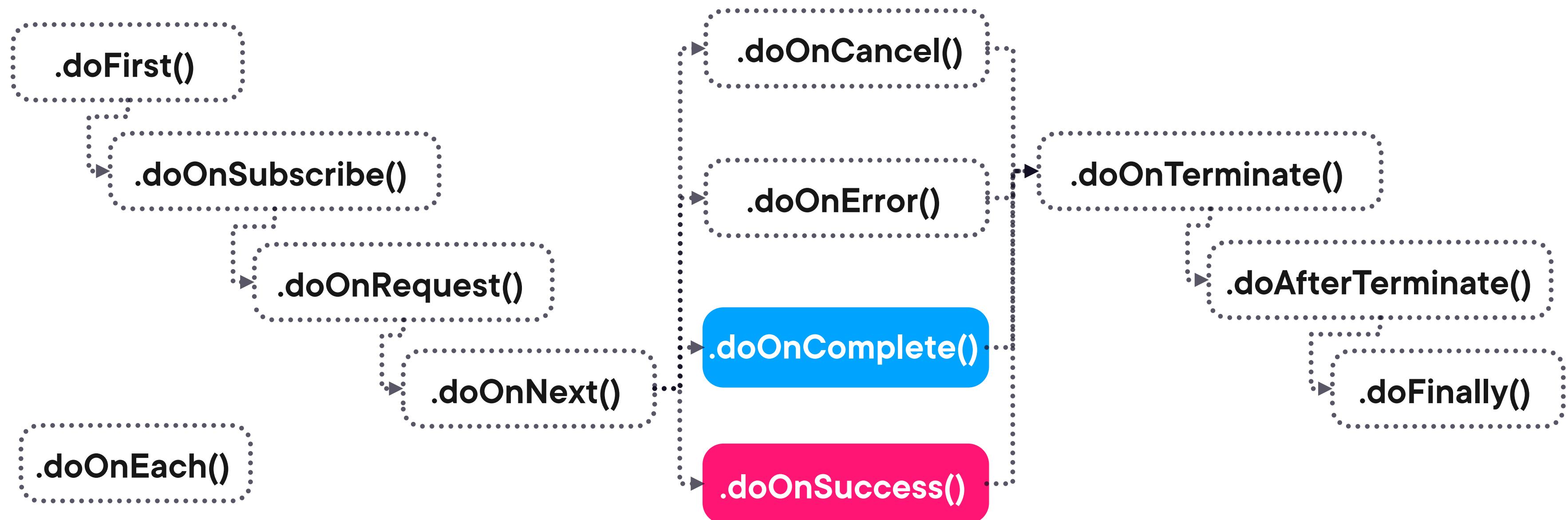
Global error handling mechanism
Explore onError operators



Peek Operators



Peek Operators



— Mono|Flux

— Mono

— Flux



Demo



Explore peek operators



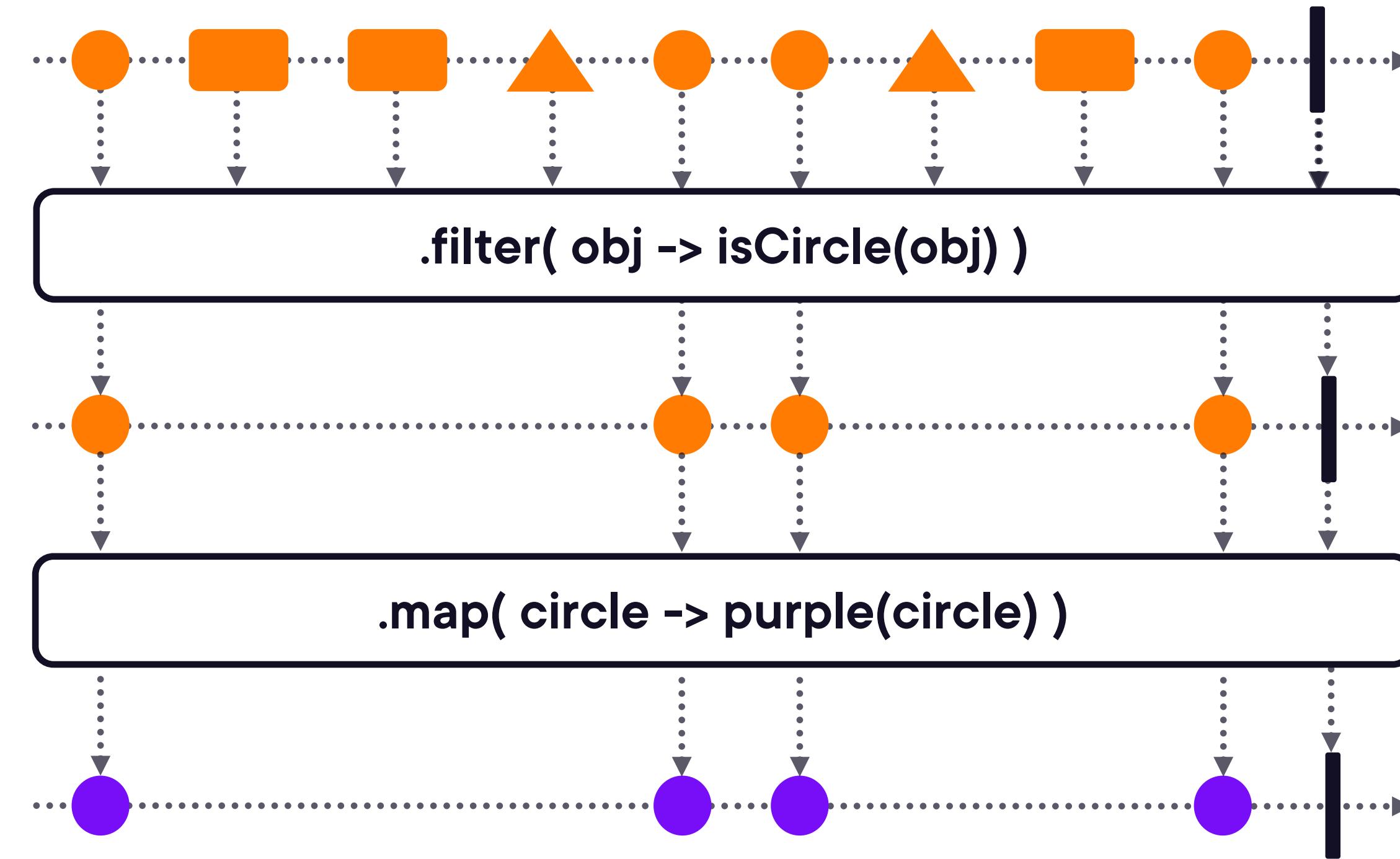
Summary



Project Reactor operators
Error Handling



Project Reactor Operators



Error Handling

```
try {  
    [REDACTED]  
    [REDACTED]  
}  
catch(SomeException ex) {  
    [REDACTED]  
}  
finally {  
    [REDACTED]  
}
```

`Mono.error(new SomeException())`

`.onErrorReturn(▲)`

`.onErrorResume(ex -> ●)`

`.onErrorMap(ex -> otherEx)`

`.doFinally(signtype -> doStuff())`



Up Next:

Using WebClient

