

# rxjava-examples (0.0.2)

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# Table of Contents

1. Introduction .....	2
2. Implementation .....	3
2.1. gradle-starter .....	3
2.2. gradle-starter .....	5
2.3. reactivex-api .....	6
2.4. javaee-starter .....	7
2.5. starter .....	7
2.6. stock .....	7
3. Links .....	8

Travis CI status: [\[Build Status\]](#)

# Chapter 1. Introduction

Read [project reference documentation](#)

projects

1. stock (rxjava reactive getting stated)

*build*

```
./mvnw  
./gradlew
```

inks:

1. [talk](#)

# Chapter 2. Implementation

## 2.1. gradle-starter

```
cd spring-akka-gradle/  
./gradlew  
bash build/libs/*.jar
```

```
@Slf4j  
public class PrinterActor extends AbstractActorWithTimers {  
  
    @Getter  
    @RequiredArgsConstructor  
    public static class EchoMessage {  
        final String message;  
    }  
  
    @Override  
    public Receive createReceive() {  
        return receiveBuilder()  
            .match(EchoMessage.class, echoMessage -> {  
                final String message = echoMessage.message;  
                System.out.println("message = " + message);  
                log.info("received message: {}", message);  
                this.getContext().getSystem().log().info("received: {}", message);  
            })  
            .build()  
        ;  
    }  
}
```

```

@RequiredArgsConstructor
public class GreetingActor extends AbstractActorWithTimers {

    final ActorRef printerActor;

    @Getter
    @RequiredArgsConstructor
    public static class EchoMessage {
        final String message;
    }

    @Override
    public Receive createReceive() {
        return receiveBuilder()
            .match(Object.class, anyObject -> {
                System.out.println("sending message..");
                getContext().getSystem().log().info("0.o0oo000o00__");
                printerActor.tell(new EchoMessage("olololo!"), self());
            })
            .build()
            ;
    }
}

```

```

@Slf4j
@Configuration
public class AkkaConfig {

    @Bean
    public ActorSystem actorSystem() {
        return ActorSystem.create("spring-akka-gradle-system");
    }

    @Bean
    public ActorRef printerActor(final ActorSystem actorSystem) {
        return actorSystem.actorOf(Props.create(PrinterActor.class), "PrinterActor");
    }

    @Bean
    public ActorRef greetingActor(final ActorSystem actorSystem, ActorRef printerActor)
    {
        return actorSystem .actorOf(Props.create(GreetingActor.class, printerActor),
"GreetingActor");
    }

    @Bean
    public ApplicationRunner actorsApp(final ActorRef greetingActor) {
        return args -> {
            actorSystem().log().info("just greeting...");
            greetingActor.tell(new PrinterActor.EchoMessage("ololo!"), ActorRef.noSender());
        };
    }
}

```

## 2.2. gradle-starter

```

mkdir gradle-starter
cd gradle-starter/
gradle init --type java-application

```

```

package daggerok;

import io.reactivex.Flowable;

public class App {
    public static void main(String[] args) {
        Flowable.fromArray(args)
            .subscribe(System.out::println);
    }
}

```

*build*

```
package daggerok

import io.reactivex.rxkotlin.subscribeBy
import io.reactivex.rxkotlin.toObservable

fun main(args: Array<String>) {
    val list = listOf("Alpha", "Beta", "Gamma", "Delta", "Epsilon")

    list.toObservable() // extension function for Iterables
        .filter { it.length >= 5 }
        .subscribeBy( // named arguments for lambda Subscribers
            onNext = { println(it) },
            onError = { it.printStackTrace() },
            onComplete = { println("Done!") }
        )
}
```

Initially generated by using [generator-jvm](#) yeoman generator (kotlin)

## 2.3. rxjava2-api

*build*

```
@Slf4j
public class App {
    public static void main(String[] args) {
        Flowable.just("ololo", "trololo")
            .subscribe(log::info);
    }
}
```

*api*

```
Flowable | Publisher | Subscriber
Maybe | MaybeSource | MaybeObserver
Completable | CompletableSource | CompletableObserver

Observable | ObservableSource | Observer
Observers
Operations
Schedule
Single | SingleSource | SingleObserver
Subject
```

Initially generated by using [generator-jvm](#) yeoman generator (java)

## 2.4. javaee-starter

*build*

```
./mvnw -pl javaee-starter clean package com.dkanejs.maven.plugins:docker-compose-maven-plugin:1.0.1:up
./mvnw -pl javaee-starter com.dkanejs.maven.plugins:docker-compose-maven-plugin:1.0.1:down

./gradlew clean build :javaee-starter:composeUp
./gradlew :javaee-starter:composeDown
```

## 2.5. starter

*build*

```
./mvnw -pl javaee-starter clean package com.dkanejs.maven.plugins:docker-compose-maven-plugin:1.0.1:up
./mvnw -pl javaee-starter com.dkanejs.maven.plugins:docker-compose-maven-plugin:1.0.1:down

./gradlew clean build :javaee-starter:composeUp
./gradlew :javaee-starter:composeDown
```

## 2.6. stock

*build*

```
./mvnw -pl javaee-starter clean package com.dkanejs.maven.plugins:docker-compose-maven-plugin:1.0.1:up
./mvnw -pl javaee-starter com.dkanejs.maven.plugins:docker-compose-maven-plugin:1.0.1:down

./gradlew clean build :javaee-starter:composeUp
./gradlew :javaee-starter:composeDown
```

# Chapter 3. Links

- [GitHub repo](#)
- [GitHub pages](#)