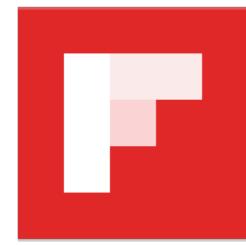
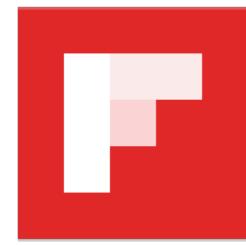


# RxJava on Android

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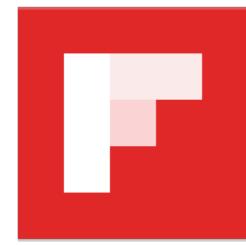


# RxJava on Android



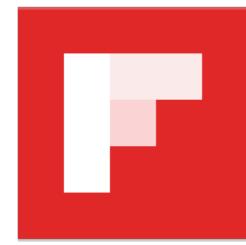
# RxJava on Android

- RxJava 是什么



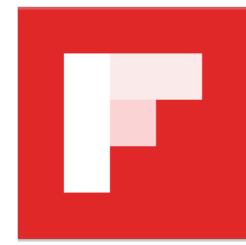
# RxJava on Android

- RxJava 是什么
- RxJava 的优势



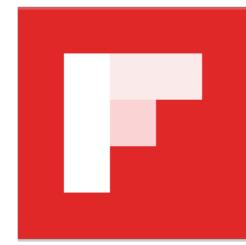
# RxJava on Android

- RxJava 是什么
- RxJava 的优势
- API 介绍



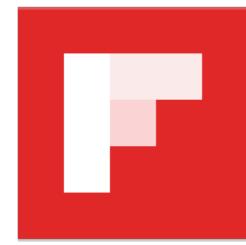
# RxJava on Android

- RxJava 是什么
- RxJava 的优势
- API 介绍
- 适用场景



# RxJava on Android

- RxJava 是什么: 异步
- RxJava 的优势
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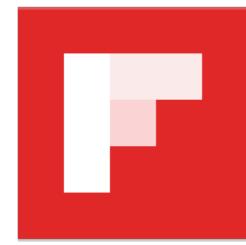


# RxJava on Android

- RxJava 是什么: 异步
- RxJava 的优势: 简洁
- API 介绍
- 适用场景

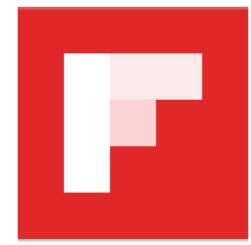


# API 介绍



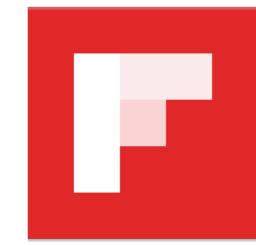
# API 介绍

- 概念：扩展的观察者模式
- 基本实现
- 线程控制：Schedulers
- 变换

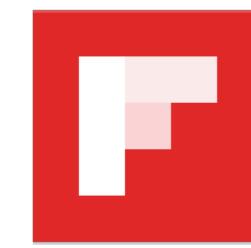


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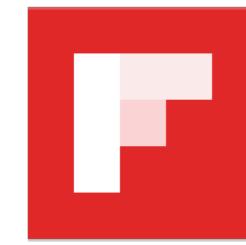


# 概念：扩展的观察者模式



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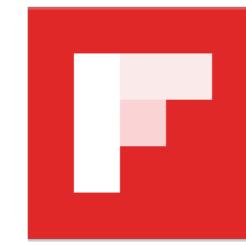
- 观察者模式



# 概念：扩展的观察者模式

- 观察者模式

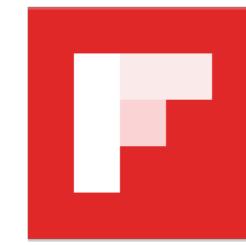




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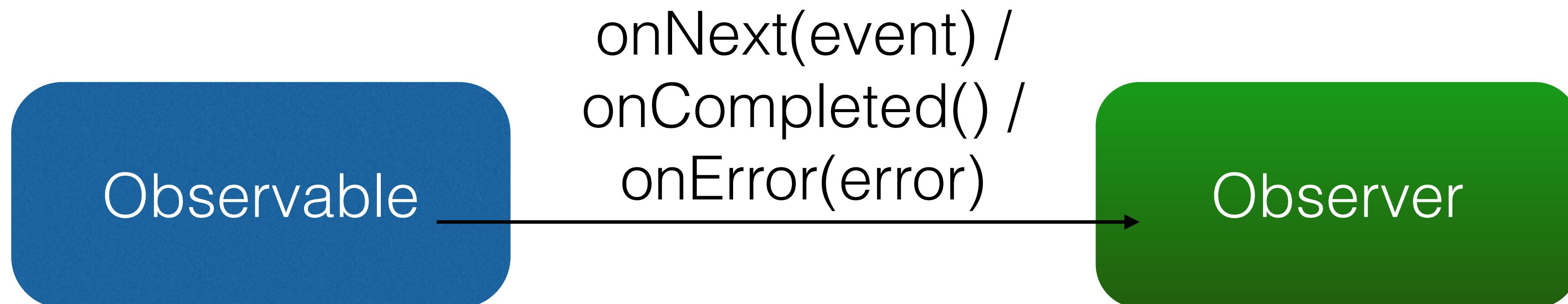
- 观察者模式

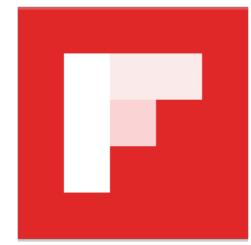




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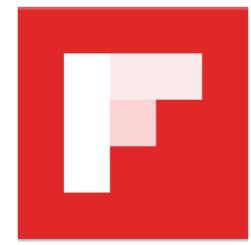
- 观察者模式
- RxJava 的观察者模式





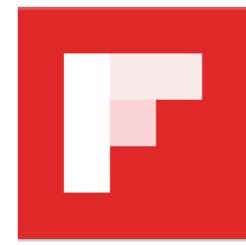
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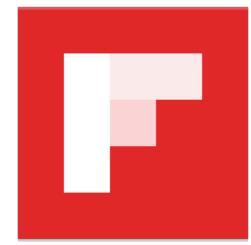


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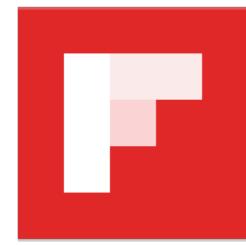


# 基本实现



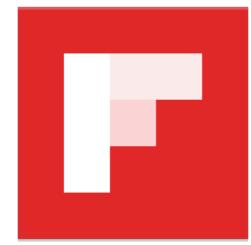
# 基本实现

- 创建 Observer



# 基本实现

- 创建 Observer
- 创建 Observable



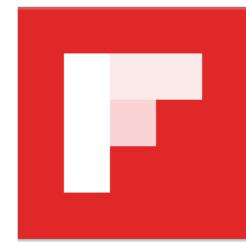
# 基本实现

- 创建 Observer
- 创建 Observable
- subscribe (订阅)

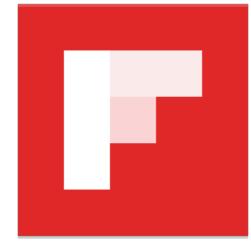


# 基本实现

- 创建 Observer
- 创建 Observable
- subscribe (订阅)

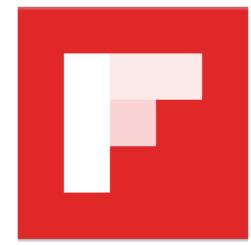


# 创建 Observer



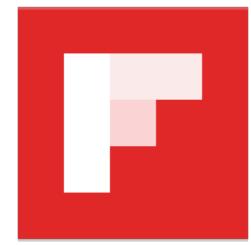
# 创建 Observer

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Observer<String> observer = new Observer<String>() {  
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    public void onNext(String s) {  
        Log.d(TAG, "Item: " + s);  
    }  
  
    @Override  
    public void onCompleted() {  
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    }  
  
    @Override  
    public void onError(Throwable e) {  
        Log.d(TAG, "Error!");  
    }  
};
```



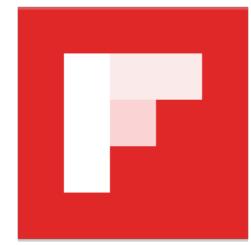
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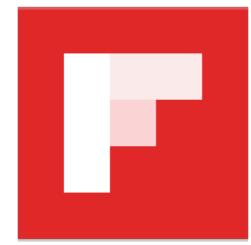
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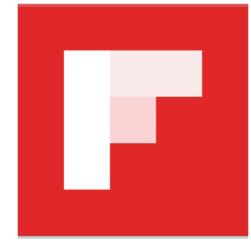
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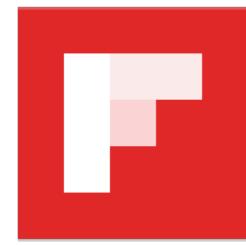
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    }  
};
```



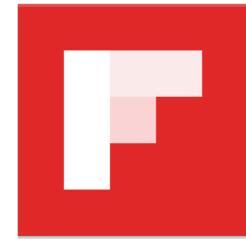
# 创建 Observer

```
Subscriber<String> observer = new Subscriber<String>() {  
    @Override  
    public void onNext(String s) {  
        Log.d(TAG, "Item: " + s);  
    }  
  
    @Override  
    public void onCompleted() {  
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    }  
  
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    public void onError(Throwable e) {  
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```



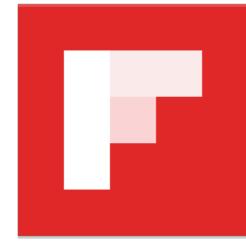
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Subscriber<String> observer = new Subscriber<String>() {  
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    }  
    onStart()  
  
    @Override  
    public void onCompleted() {  
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    }  
    onStart()  
  
    @Override  
    public void onCompleted() {  
        Log.d(TAG, "Completed!");  
    }  
    unsubscribe()  
  
    @Override  
    public void onError(Throwable e) {  
        Log.d(TAG, "Error!");  
    }  
};
```



# 创建 Observer

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    }  
  
    @Override  
    public void onError(Throwable e) {  
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};
```

onStart()

unsubscribe()

isUnsubscribed()



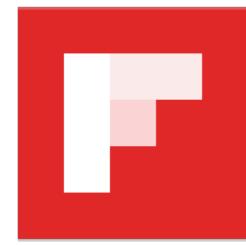
# 基本实现

- 创建 Observer
- 创建 Observable
- subscribe (订阅)

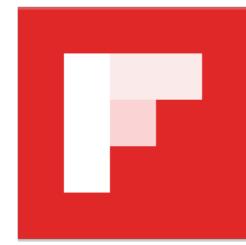


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- 创建 Observable
- subscribe (订阅)

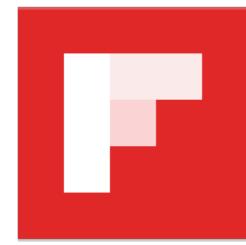


# 创建 Observable



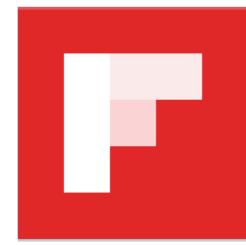
# 创建 Observable

```
Observable observable = Observable.create(new OnSubscribe<String>()
{
    @Override
    public void call(Subscriber<? super String> subscriber) {
        subscriber.onNext("Hello");
        subscriber.onNext("Hi");
        subscriber.onNext("Aloha");
        subscriber.onCompleted();
    }
});
```



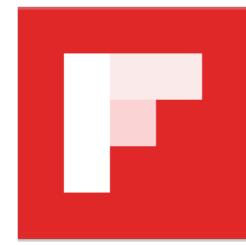
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    }
});
```



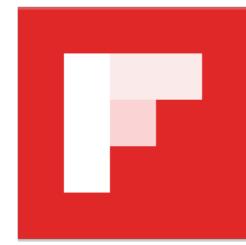
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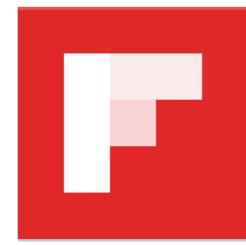
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        subscriber.onNext("Aloha");
        subscriber.onCompleted();
    }
});
```

```
Observable observable = Observable.just("Hello", "Hi", "Aloha");
```

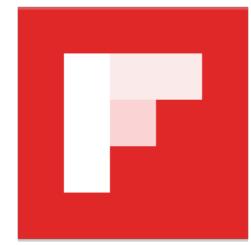


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Observable observable = Observable.create(new OnSubscribe<String>()
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        subscriber.onCompleted();
    }
});
```

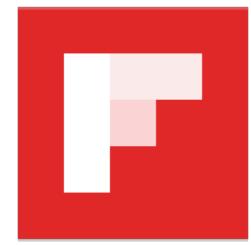
```
Observable observable = Observable.just("Hello", "Hi", "Aloha");
```

```
String[] words = {"Hello", "Hi", "Aloha"};
Observable observable = Observable.from(words);
```



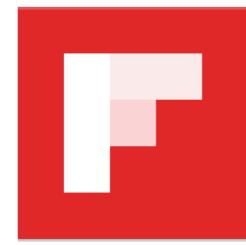
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- 创建 Observable
- subscribe (订阅)

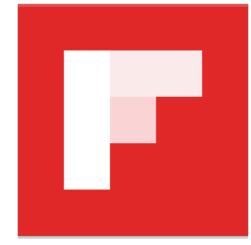


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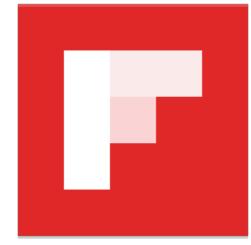


subscribe (订阅)



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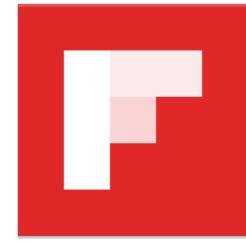
```
observable.subscribe(observer);
```



# subscribe (订阅)

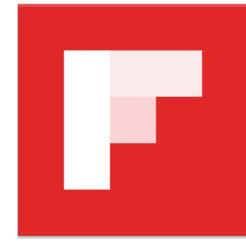
```
observable.subscribe(observer);
```

```
observable.subscribe(subscriber);
```



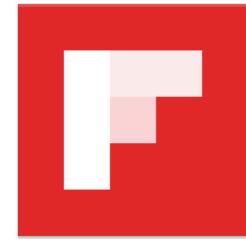
# subscribe (订阅)

```
public Subscription subscribe(Subscriber subscriber) {  
    subscriber.onStart();  
    onSubscribe.call(subscriber);  
    return subscriber;  
}
```



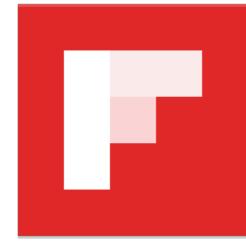
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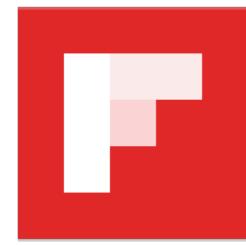
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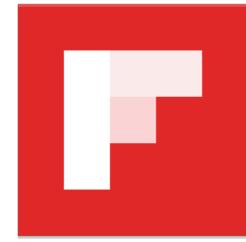
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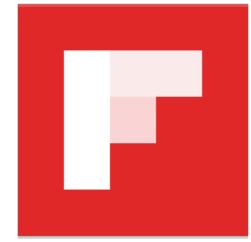
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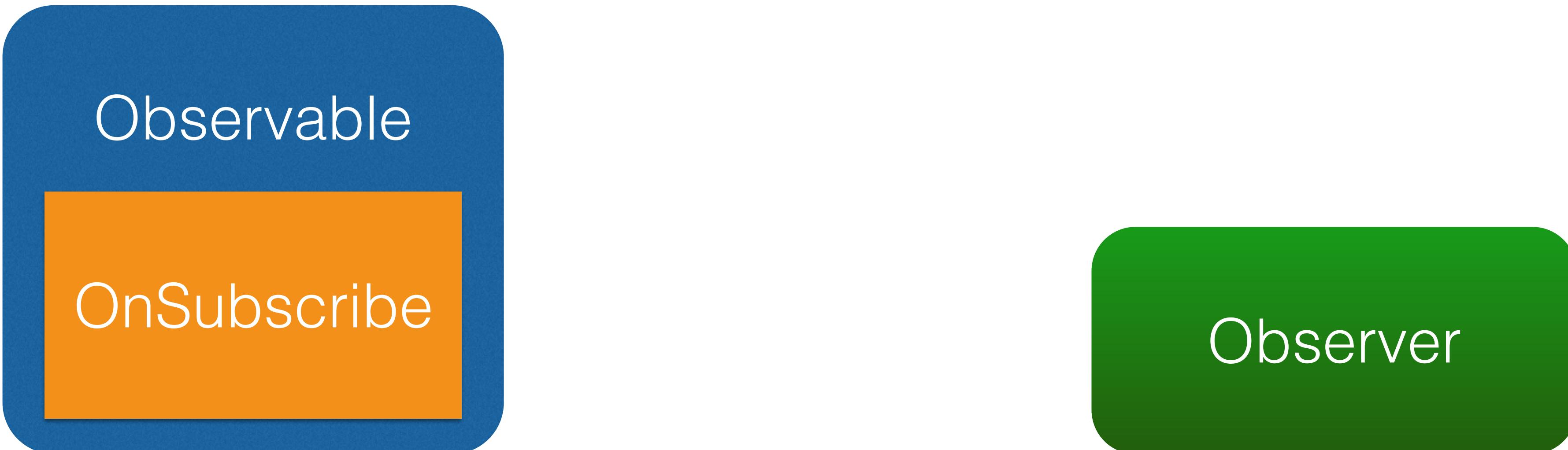


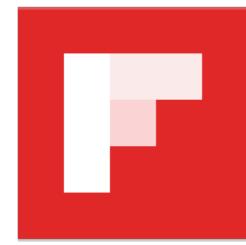
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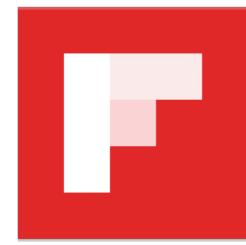
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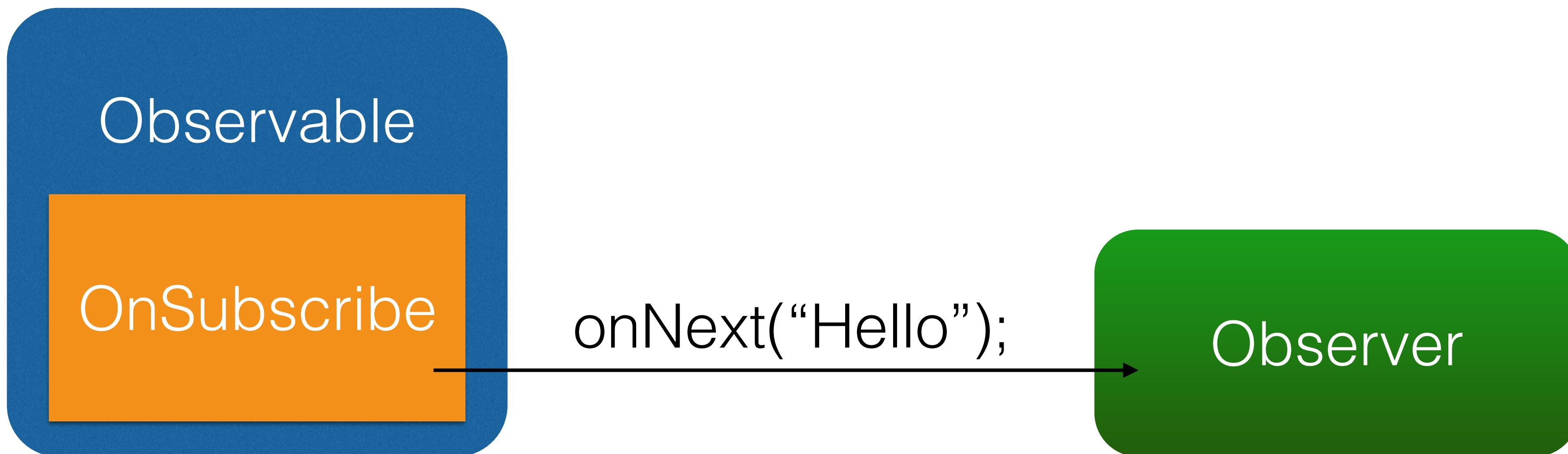


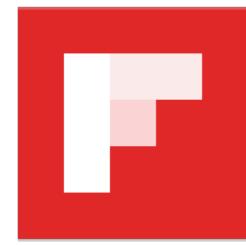
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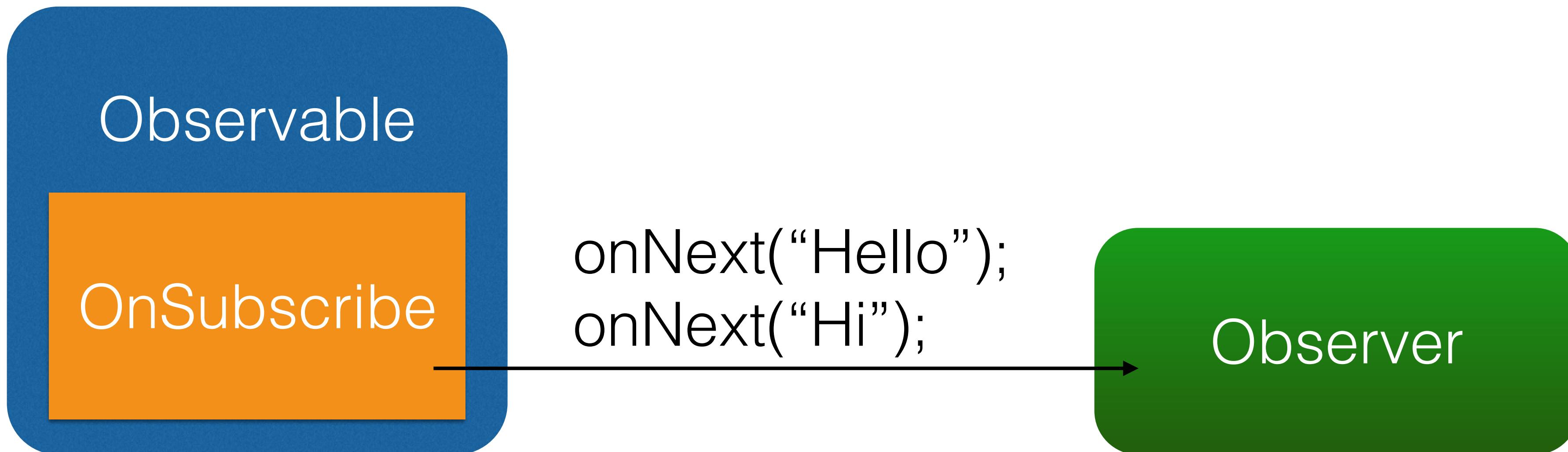


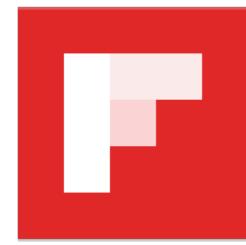
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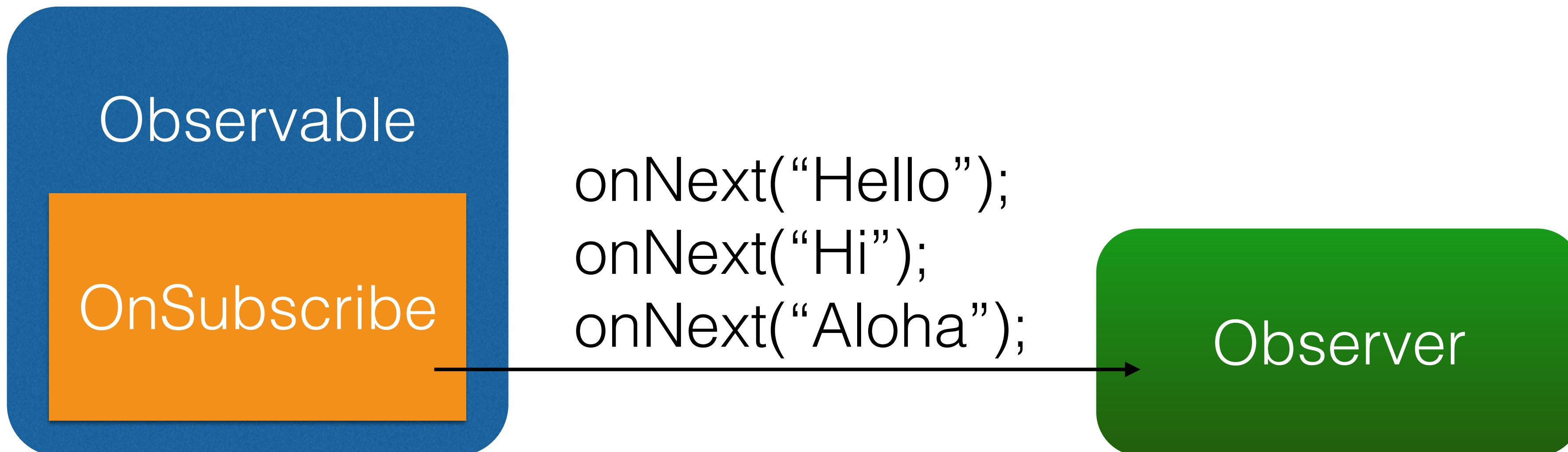


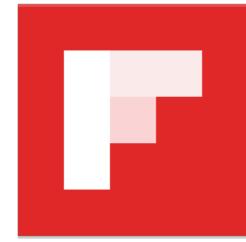
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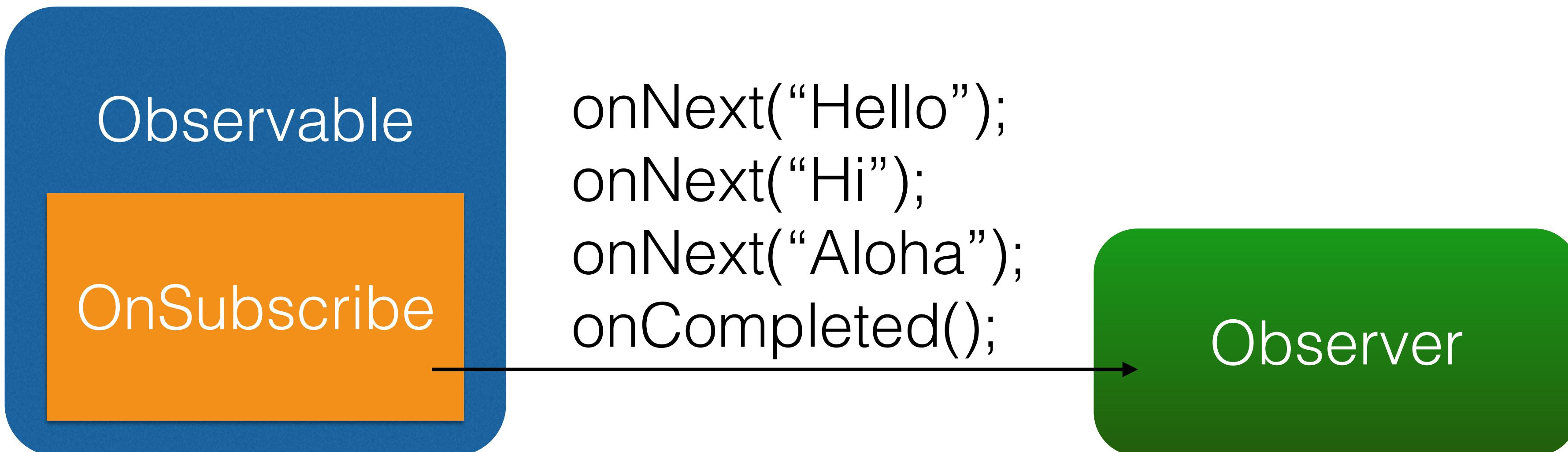


# subscribe (订阅)





# subscribe (订阅)





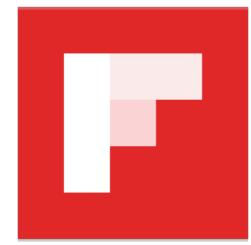
# 基本实现

- 创建 Observer
- 创建 Observable
- subscribe (订阅)



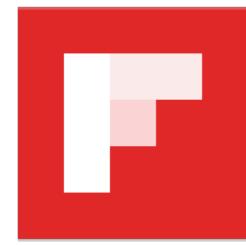
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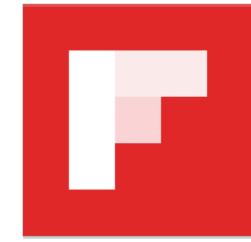
# API 介绍

- 概念：扩展的观察者模式
- 基本实现
- 线程控制：Schedulers
- 变换

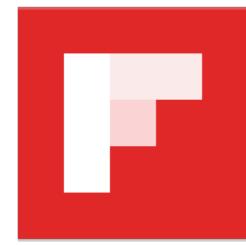


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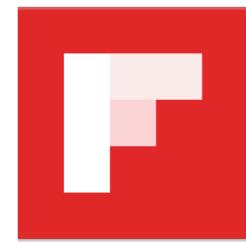


# 线程控制：Schedulers



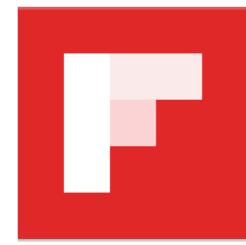
# 线程控制：Schedulers

```
Observable.just(1, 2, 3, 4)
    .subscribe(new Action1<Integer>() {
        @Override
        public void call(Integer number) {
            Log.d(tag, "number:" + number);
        }
    });
}
```



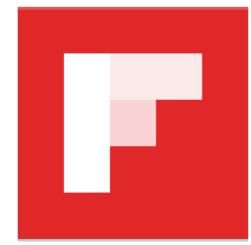
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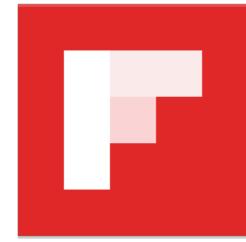
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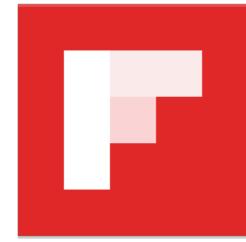
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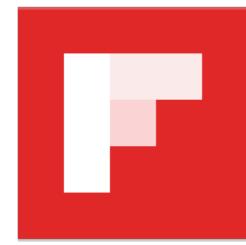
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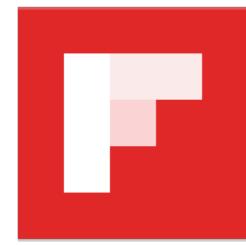
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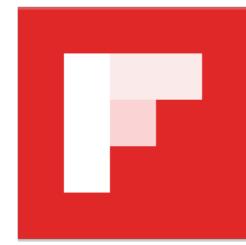
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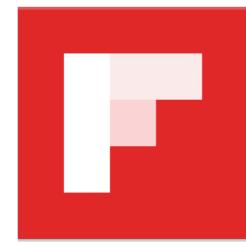
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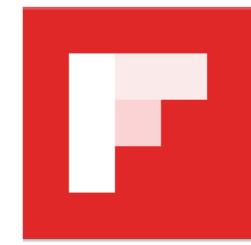
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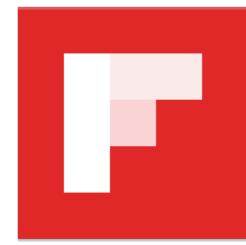
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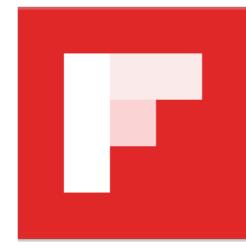
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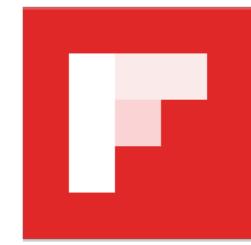
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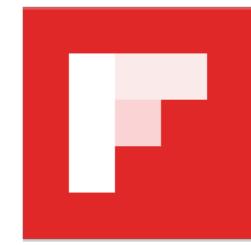
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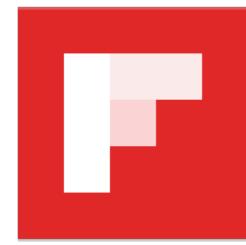
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- Schedulers.newThread()
- Schedulers.calculation()



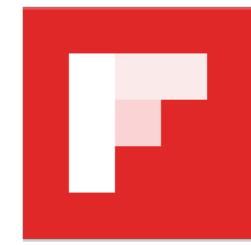
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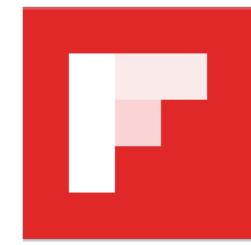
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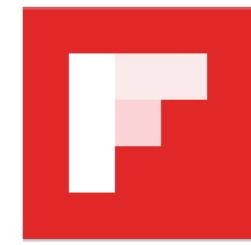
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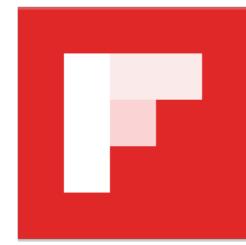
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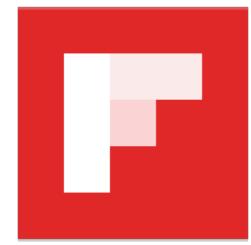
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# API 介绍

- 概念：扩展的观察者模式
- 基本实现
- 线程控制：Schedulers
- 变换



# API 介绍

- 概念：扩展的观察者模式
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- 变换



变换



# 变换

```
Observable.just("images/image1.png", "images.image2.png")
    .subscribe(new Action1<String>() {
        @Override
        public void call(String path) {
            Bitmap bitmap = getBitmapFromPath(filePath);
            addBitmapToView(bitmap);
        }
    });
}
```



# 变换

```
Observable.just("images/image1.png", "images.image2.png")
```

```
.subscribe(new Action1<String>() {
    @Override
    public void call(String path) {
        Bitmap bitmap = getBitmapFromPath(filePath);
        addBitmapToView(bitmap);
    }
});
```



# 变换

```
Observable.just("images/image1.png", "images.image2.png")
    .map(new Func1<String, Bitmap>() {
        @Override
        public Bitmap call(String path) {

    })
    .subscribe(new Action1<String>() {
        @Override
        public void call(String path) {
            Bitmap bitmap = getBitmapFromPath(filePath);
            addBitmapToView(bitmap);
        }
    });
}
```



# 变换

```
Observable.just("images/image1.png", "images.image2.png")
    .map(new Func1<String, Bitmap>() {
        @Override
        public Bitmap call(String path) {
            return getBitmapFromPath(filePath);
        }
    .subscribe(new Action1<Bitmap>() {
        @Override
        public void call(Bitmap path) {
            addBitmapToView(bitmap);
        }
    );
}
```



# 变换

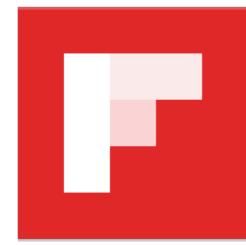
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Observable.just("images/image1.png", "images.image2.png")
    .map(new Func1<String, Bitmap>() {
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    .subscribe(new Action1<Bitmap>() {
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        }
    });
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```



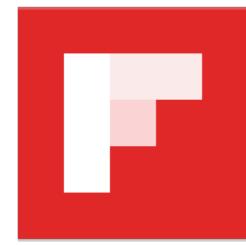
# 变换

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    .map(new Func1<String, Bitmap>() {
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        public Bitmap call(String path) {
            return getBitmapFromPath(filePath);
        }
    })
    .subscribeOn(Schedulers.io())
    .observeOn(AndroidSchedulers.mainThread())
    .subscribe(new Action1<Bitmap>() {
        @Override
        public void call(Bitmap path) {
            addBitmapToView(bitmap);
        }
    });
}
```



# 变换

- map()

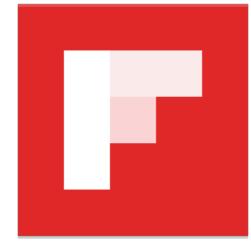


# 变换

- map()
- flatMap()

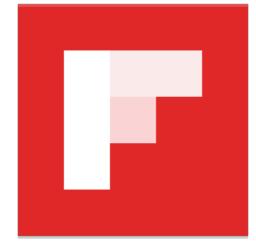


# flatMap()



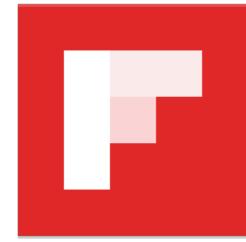
# flatMap()

```
twitterApi.getTweets(bearerToken, guestToken, country, callback)
```



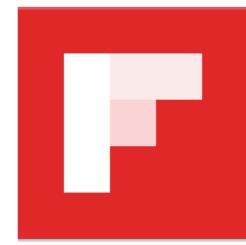
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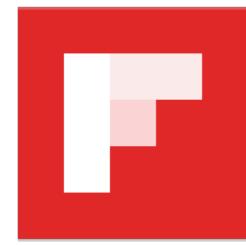
```
twitterApi.getTweets(bearerToken, guestToken, country)
    .observeOn(AndroidSchedulers.mainThread())
    .subscribe(observer);
```



# flatMap()

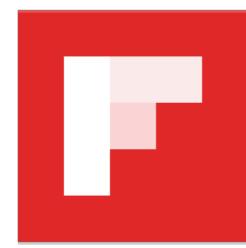
```
twitterApi.getGuestToken(bearerToken, body)
```

```
twitterApi.getTweets(bearerToken, guestToken, country)
    .observeOn(AndroidSchedulers.mainThread())
    .subscribe(observer);
```



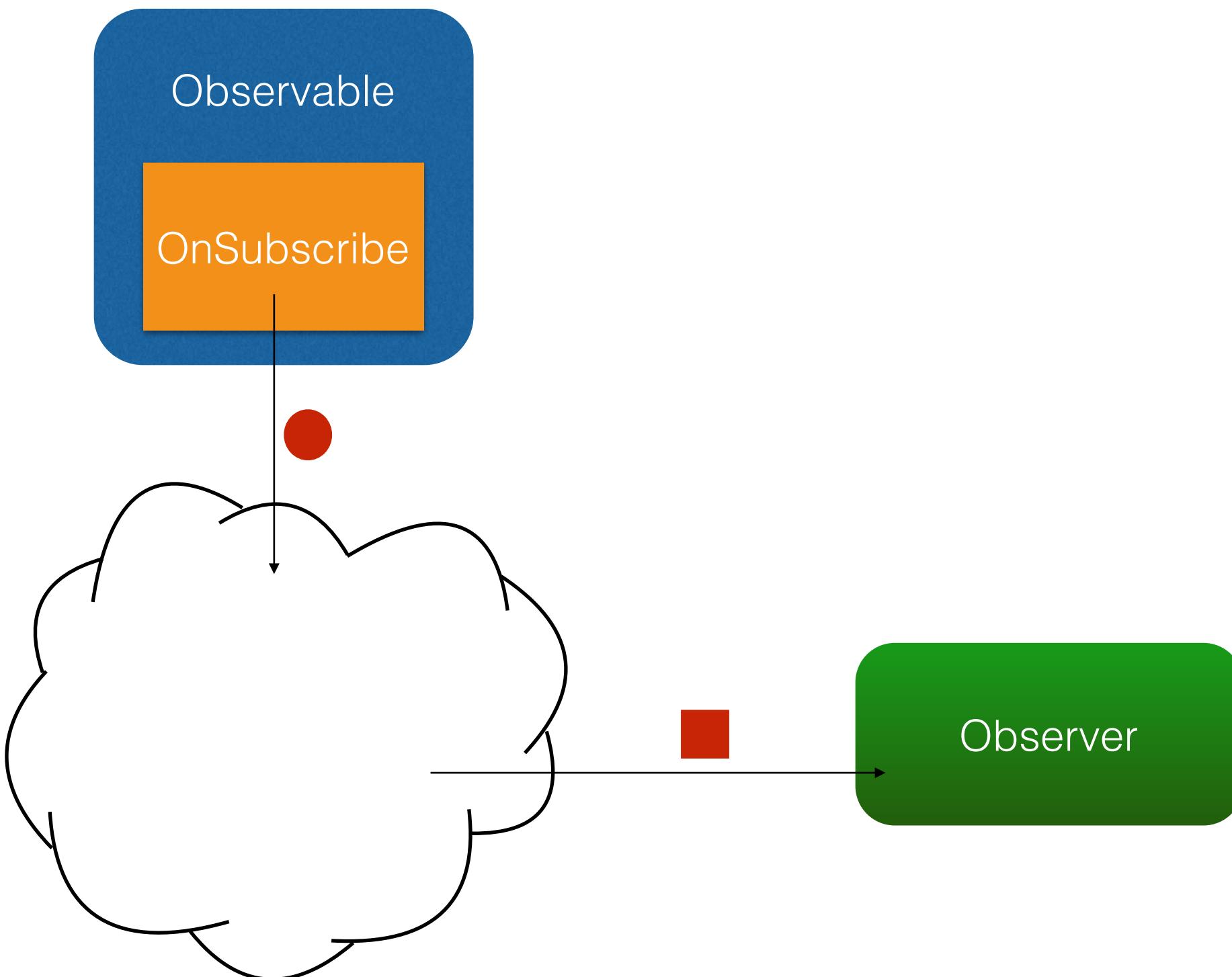
# flatMap()

```
twitterApi.getGuestToken(bearerToken, body)
    .flatMap(new Func1<TwitterGuestToken, Observable<Tweets>>() {
        @Override
        public Observable<Tweets> call(GuestToken guestToken) {
            return twitterApi.getTweets(bearerToken, guestToken,
country);
        }
    })
    .observeOn(AndroidSchedulers.mainThread())
    .subscribe(observer);
```

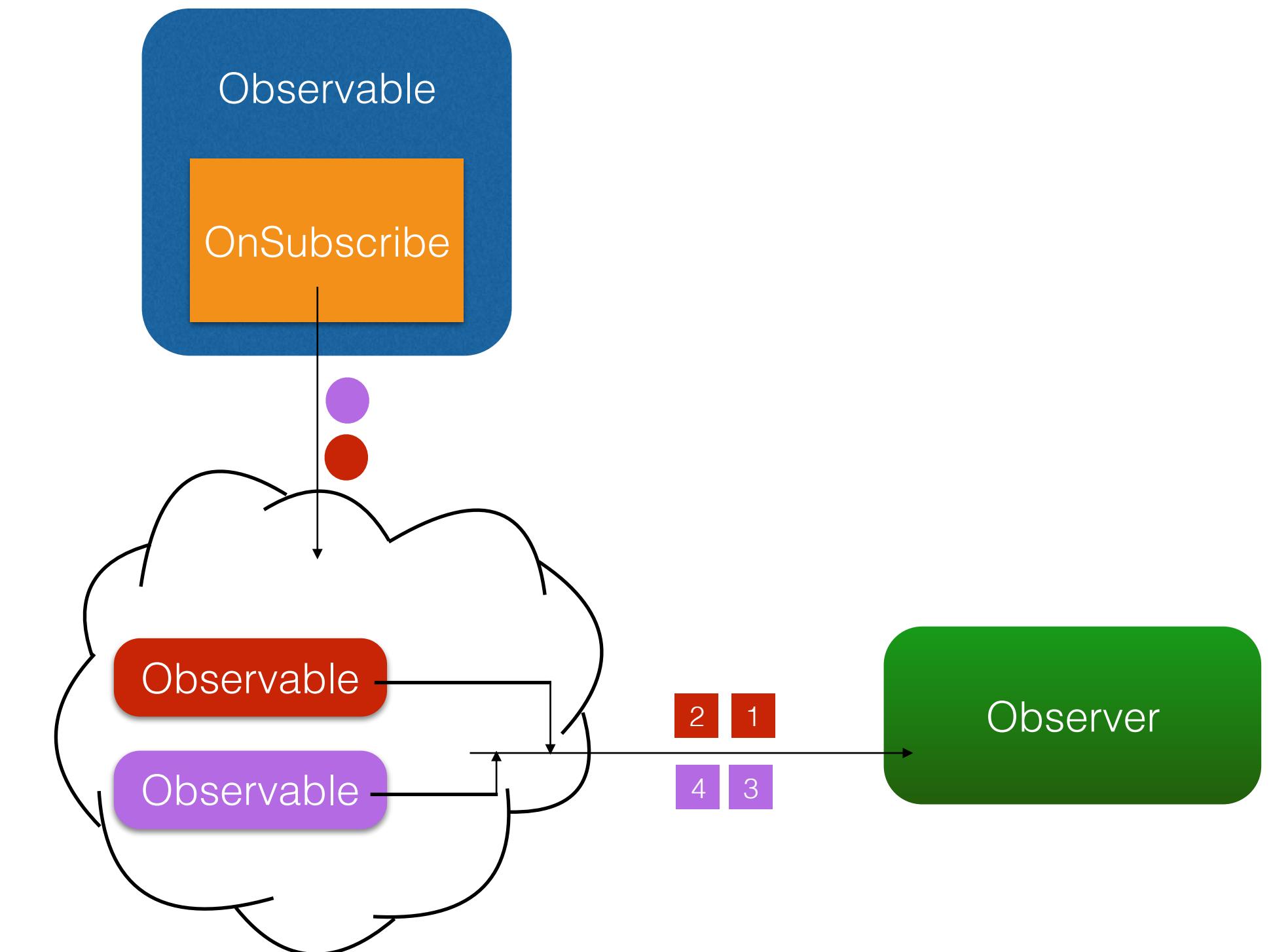


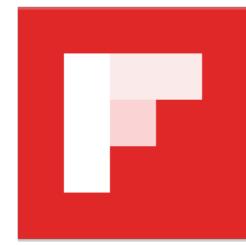
# flatMap()

map()



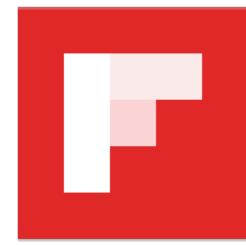
flatMap()





# 变换

- map()
- flatMap()

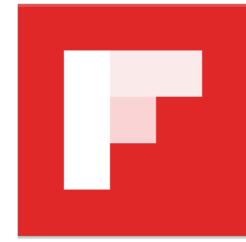


# 变换

- map()
- flatMap()
- doOnNext()

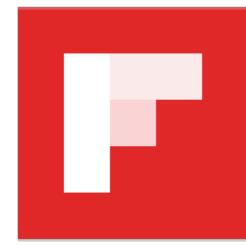


# doOnNext()



# doOnNext()

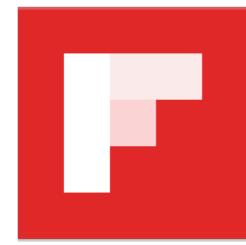
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```



# doOnNext()

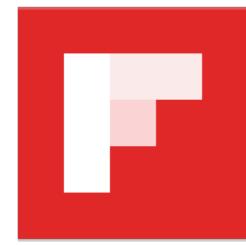
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```

```
.observeOn(AndroidSchedulers.mainThread())
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```



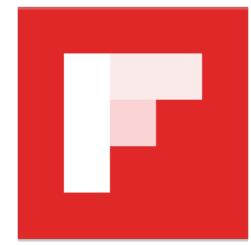
# doOnNext()

```
twitterApi.getTweets(bearerToken, guestToken, country)
    .doOnNext(new Action1<Tweets>() {
        @Override
        public void call(Tweets tweets) {
            saveTweetsToDb();
        }
    })
    .observeOn(AndroidSchedulers.mainThread())
    .subscribe(observer);
```



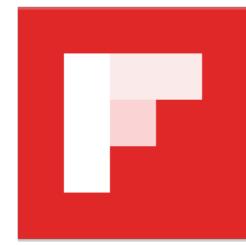
# 变换

- map()
- flatMap()
- doOnNext()

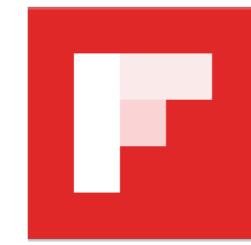


# 变换

- map()
- flatMap()
- doOnNext()
- doOnSubscribe()

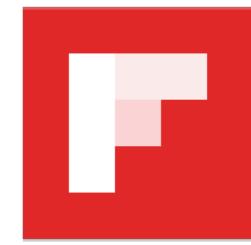


# doOnSubscribe()



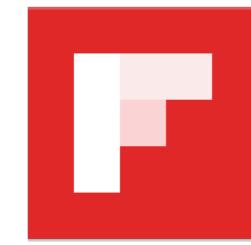
# doOnSubscribe()

```
twitterApi.getTweets(bearerToken, guestToken, country)
    .observeOn(AndroidSchedulers.mainThread())
    .subscribe(observer);
```



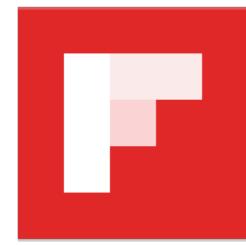
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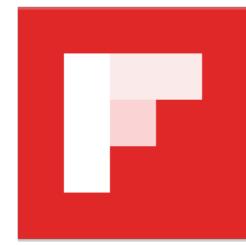
```
twitterApi.getTweets(bearerToken, guestToken, country)
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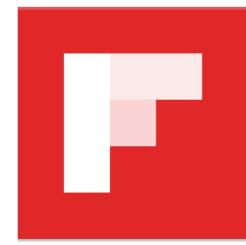
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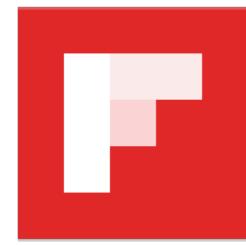
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        @Override
        public void call() {
            showHint("Flipboard 北京正在招 Android 工程师! ! !");
        }
    })
    .subscribeOn(AndroidSchedulers.mainThread())
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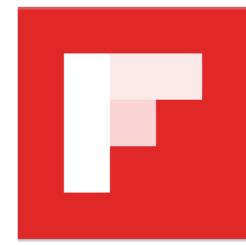
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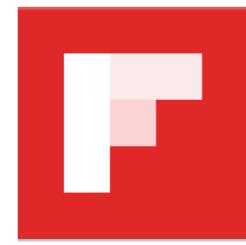
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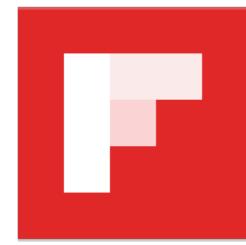
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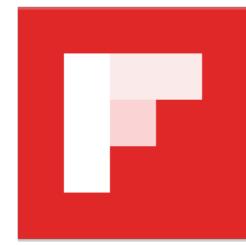
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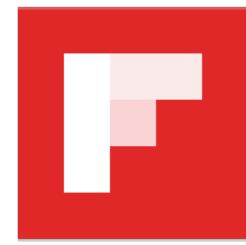
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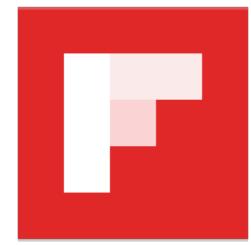
# 变换

- map()
- flatMap()
- doOnNext()
- doOnSubscribe()



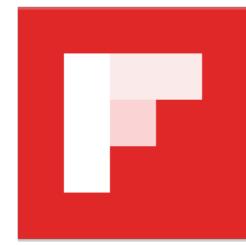
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- flatMap()
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- ...



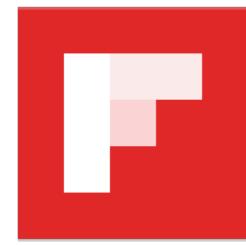
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- 基本实现
- 线程控制：Schedulers
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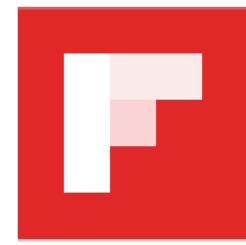
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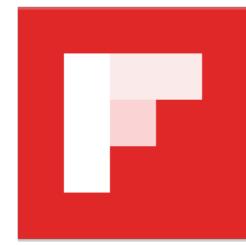
# RxJava on Android

- RxJava 是什么: 异步
- RxJava 的优势: 简洁
- API 介绍
- 适用场景



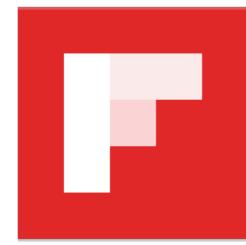
# 适用场景

- 与 Retrofit 的结合
- RxBinding
- 各种异步操作
- RxBus



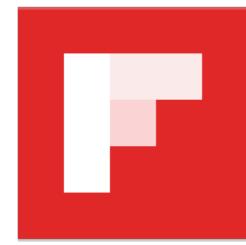
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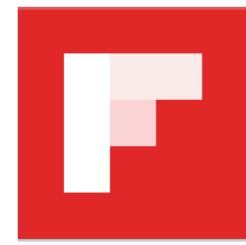
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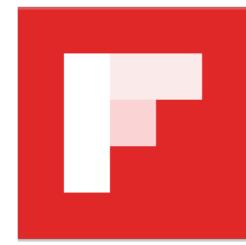
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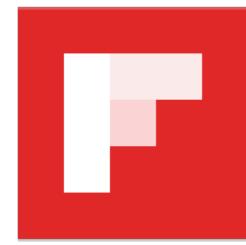
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问题？