

#### Outline

- Example
- Transformation Operators
- Filtering Operators
- Combination Operators
- Error Handling
- Higher Order Observables
- Reference



# Example



#### Example with Pipeable Operators

```
import { map } from 'rxjs/operators';

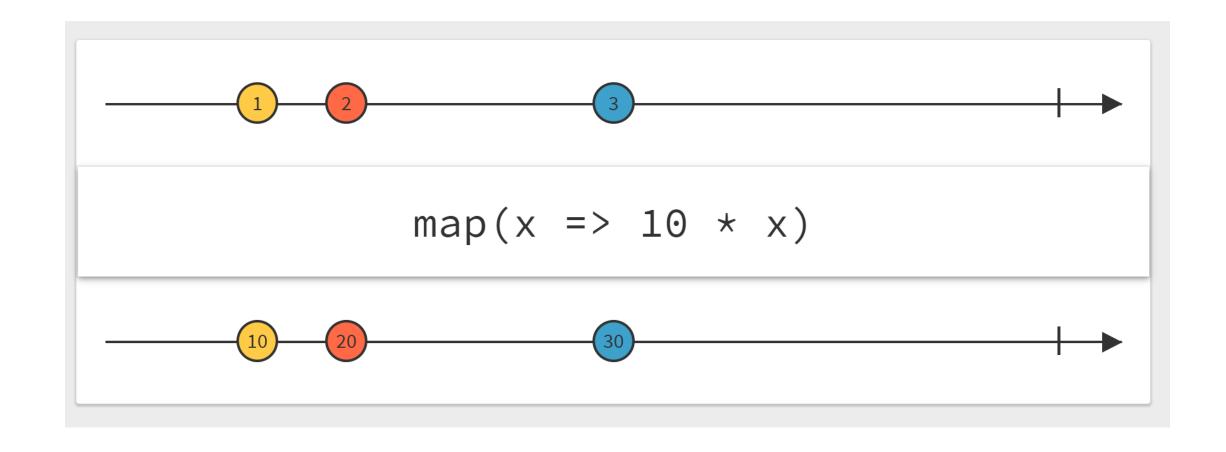
this
    .http
    .get("http://www.angular.at/api/...")
    .pipe(map(flightDateStr => new Date(flightDateStr)))
    .subscribe({
        next: (bookings) => { ... },
        error: (err) => { console.error(err); }
    });
```

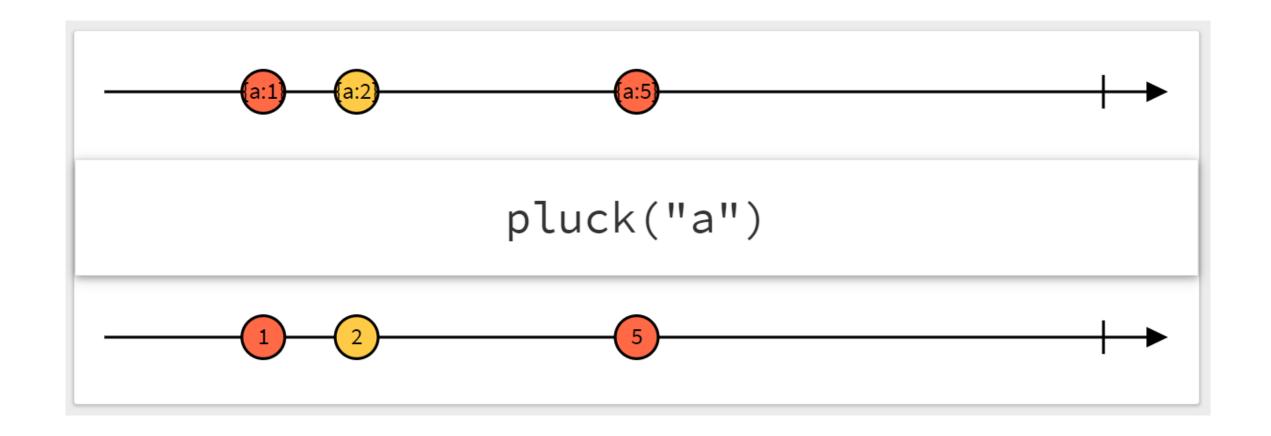


# Transformation Operators

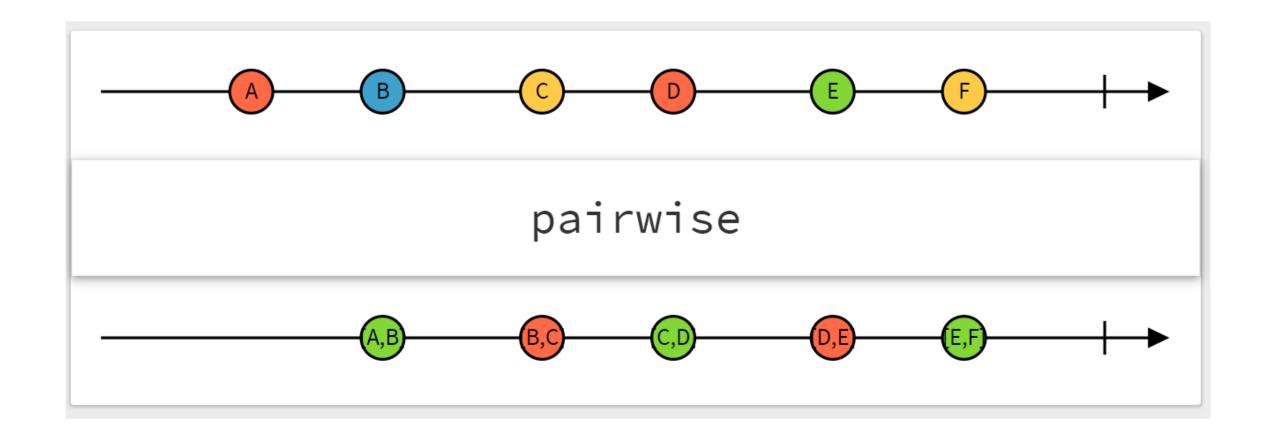


[http://rxmarbles.com/#map]





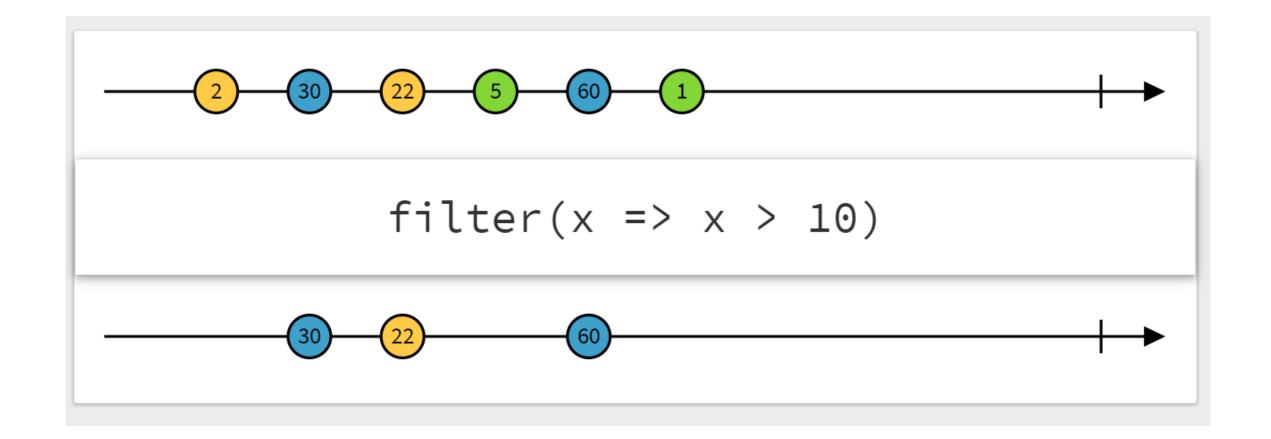




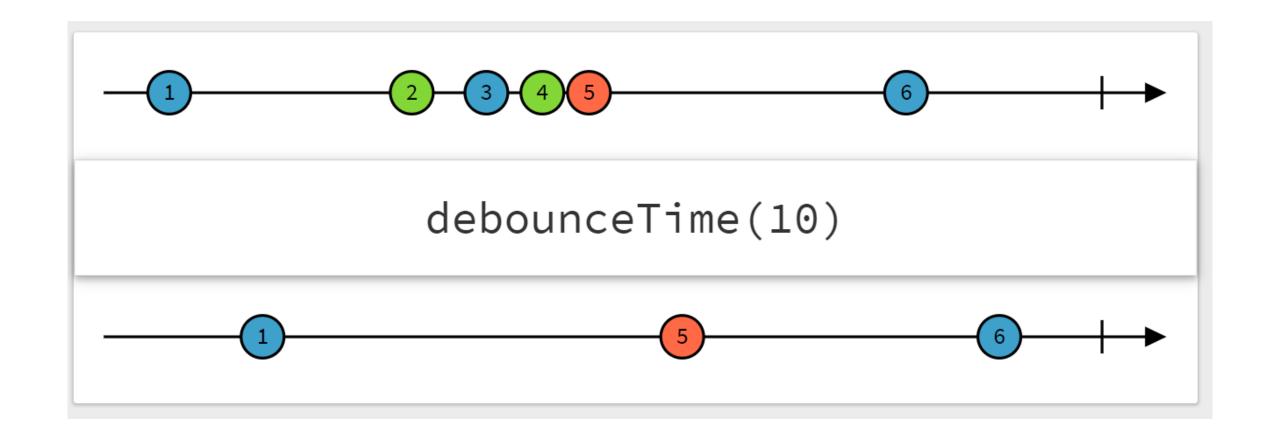


# Filtering Operators

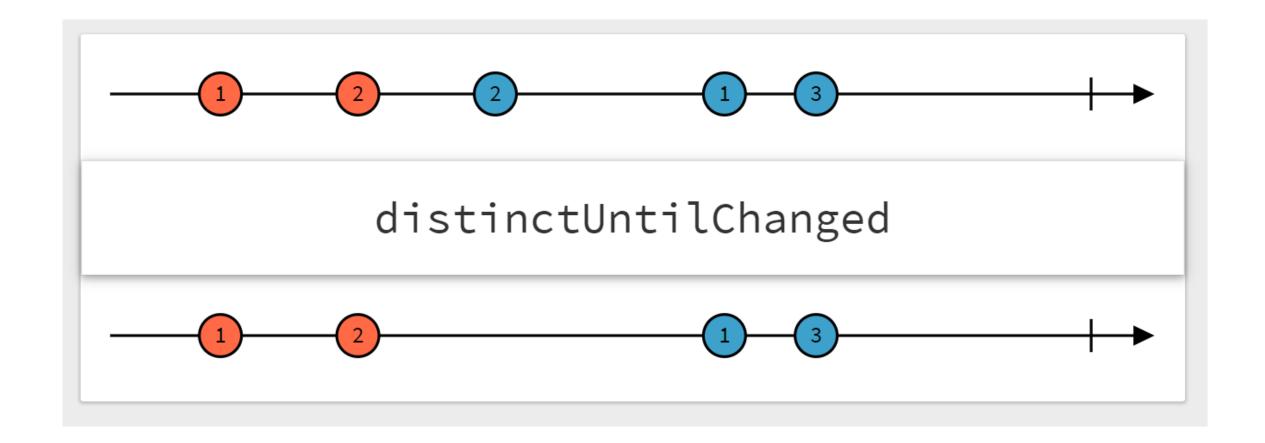














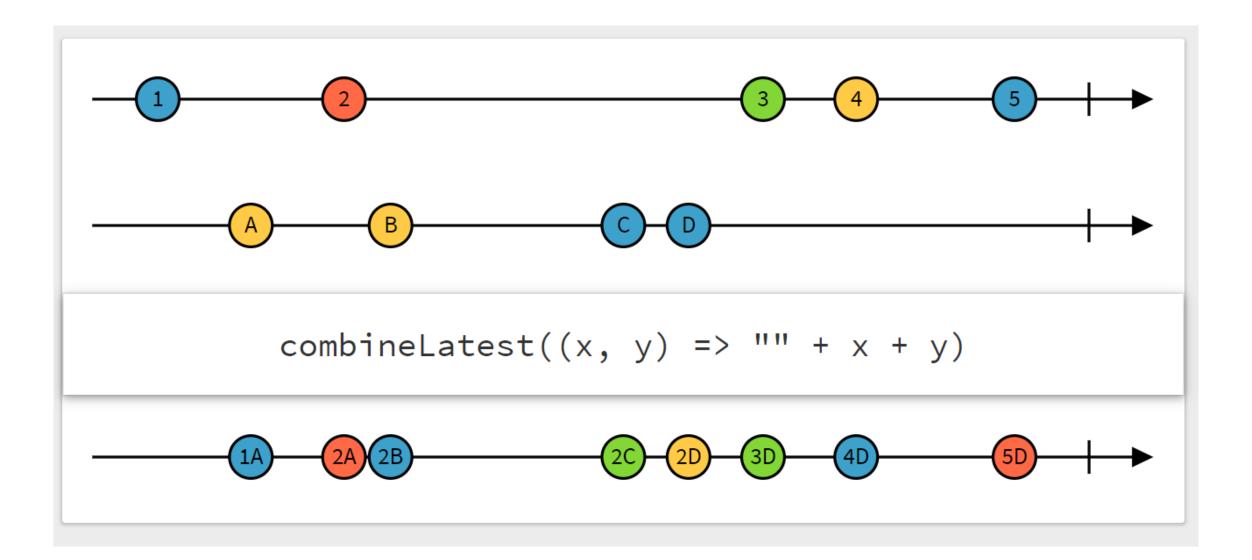
#### Demo

Simple Lookahead

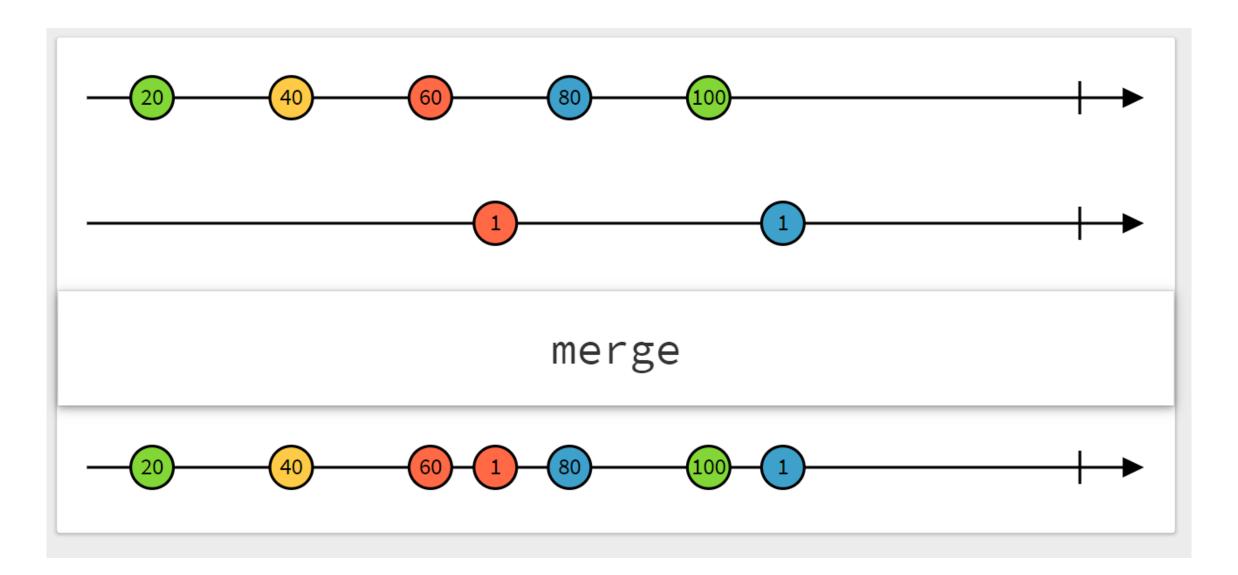


# Combination Operators

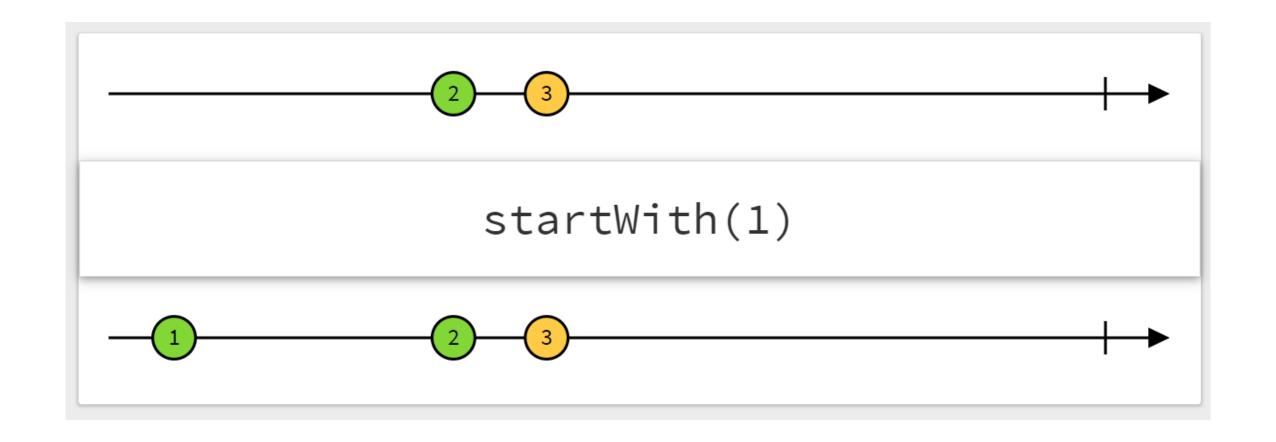














### Demo

**Combine Streams** 



## Error Handling

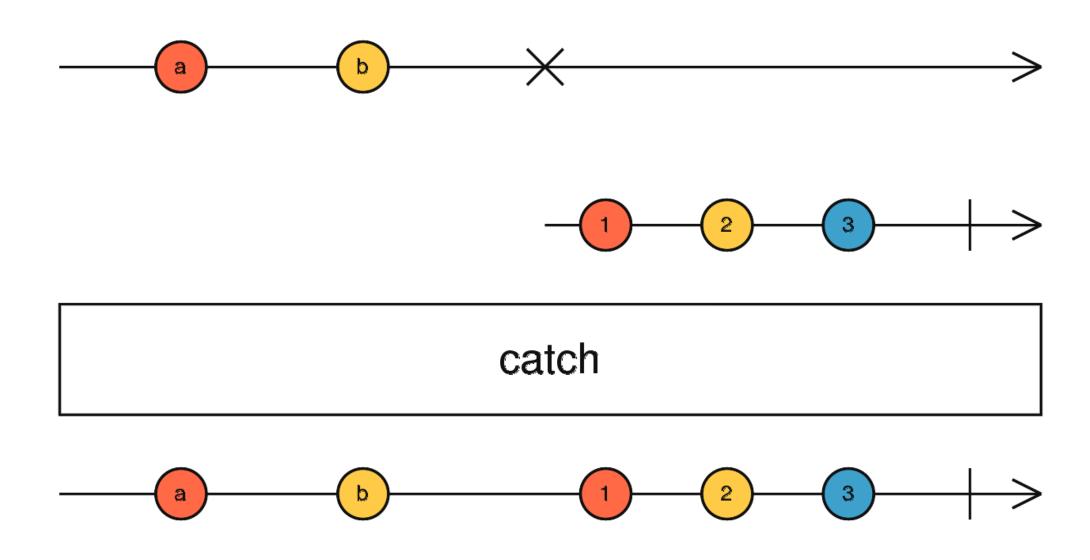


#### Operators for Error Handling

- catchError
- retry
- retryWhen

• throwError





### Demo

**Error Handling** 



## Lab Time



## One more thing ©



## Higher Order Observables



#### Operators for Higher Order Observables

- mergeMap
  - merges outer (source) and inner observables
- exhaustMap
  - outer is ignored until inner is finished
- switchMap
  - inner will be completed after next outer
- concatMap
  - outer will be sent after inner is finished





#### Like this topic?

- Marble Diagrams
  - http://rxmarbles.com
- Other Links
  - https://rxjs.dev/guide/overview
    - https://reactive.how/rxjs/
  - https://www.learnrxjs.io/
  - https://angular.io/guide/rx-library
- Official documentation
  - http://reactivex.io/rxjs/class/es6/Observable.js~Observable.html

