



Angular : Making Http Requests

- ☐ Able to retrieve data using Http
- ☐ Observables
- ☐ Reactive Extensions
- ☐ Subscribing to an Observable
- ☐ Creating, updating, and deleting data in a RESTful service

Web Browser

Web Server



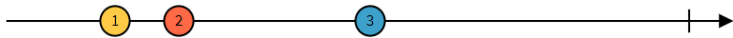


Image Source <http://rxmarbles.com/#map>

- Reactive Extensions (RxJS)
- Help manage asynchronous data
- Treat event as a collection
 - An array whose items arrive asynchrony over time
- Subscribe to receive notification

- Methods on observable that compose new observable
- Transform the source observable in some way
- Process each value as it is emitted
- Example : map, filter, take, merge
- Composing Operators
 - Compose operators with the pipe method
 - Often called “pipeable operator”

```
import { Observable, range } from 'rxjs';  
import { map, filter } from 'rxjs/operators';
```

```
...
```

```
const source$: Observable<number> = range(0, 10);
```

```
source$.pipe(  
  map(x => x * 3),  
  filter(x => x % 2 === 0)  
) .subscribe(x => console.log(x));
```

0
6
12
18
24



`map(x => 10 * x)`



Promise

Provides as a single future value

Not lazy

Not cancellable

Observable

Emits multiple values over time

Lazy

Cancellable

Supports map, filter, reduce and similar operators

```
getRestaurants() : Observable<IRestaurant[]>{  
    console.log('Getting all Restaurant from the server.');
```

```
    return this.http.get<IRestaurant[]>("http://localhost:3000/restaurants").  
}
```

```
    this._restService.getRestaurants().subscribe(  
        data => this.restaurants=data,  
        (err: any) => console.log(err),  
        () => console.log('All done getting restaurants.')
```

```
    );
```



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