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## RXJS

- Bibliothèque utilisant les Observables

```
export class ExampleComponent {
  data: string[];
  constructor(private http: HttpClient) {}
  getData(): void {
    const url = 'https://api.example.com/data';
    const dataObservable: Observable<string[]> = this.http.get<string[]>(url);
    dataObservable.subscribe((result) => {
      this.data = result;
    });
```

## Pourquoi RxJS?

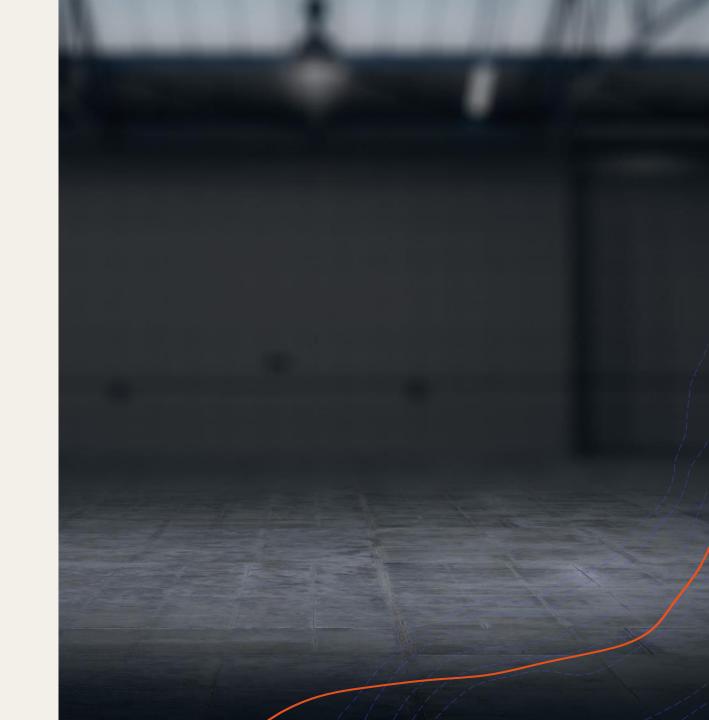
### 5 concepts essentiels

- 1. -Observable
- 2. -Observer
- 3. -Subscription
- 4. -Operators
- 5. -Subject

## Les operateurs

#### -Une fonction

- > opérateur de création
- > operateur de transformation
- > operateur de filtrage
- > operateur de combinaison
- > operateur de gestion d'erreur



# Un exemple sil te plait!

```
export class PostListComponent implements OnInit {
 posts$!: Observable<Post[]>;
 constructor(private http: HttpClient) {}
 ngOnInit(): void {
   // Appel à l'API REST et conversion de la réponse en Observable
   this.posts$ = this.http
     .get<Post[]>('https://jsonplaceholder.typicode.com/posts')
      .pipe(
       // Transformation des données
       map((posts) =>
         posts.map((post) => ({ id: post.id, title: post.title, body: post.body }))
```

# D'autres exemples!

```
export class AppComponent {
   numbers$ = of([1, 2, 3, 4, 5, 6])
    .pipe(
        filter(number => number % 2 === 0)
   );
}
```

```
export class AppComponent {
  users$ = of([{ name: 'Alice', age: 30 }, { name: 'Bob', age: 25 }])
    .pipe(
     map(users => users.map(user => `${user.name} (${user.age})`))
    );
}
```

### Sources:

https://angular.io/guide/rx-library

https://makina-corpus.com/front-end/mise-enpratique-rxjs-angular

https://rxjs.dev/