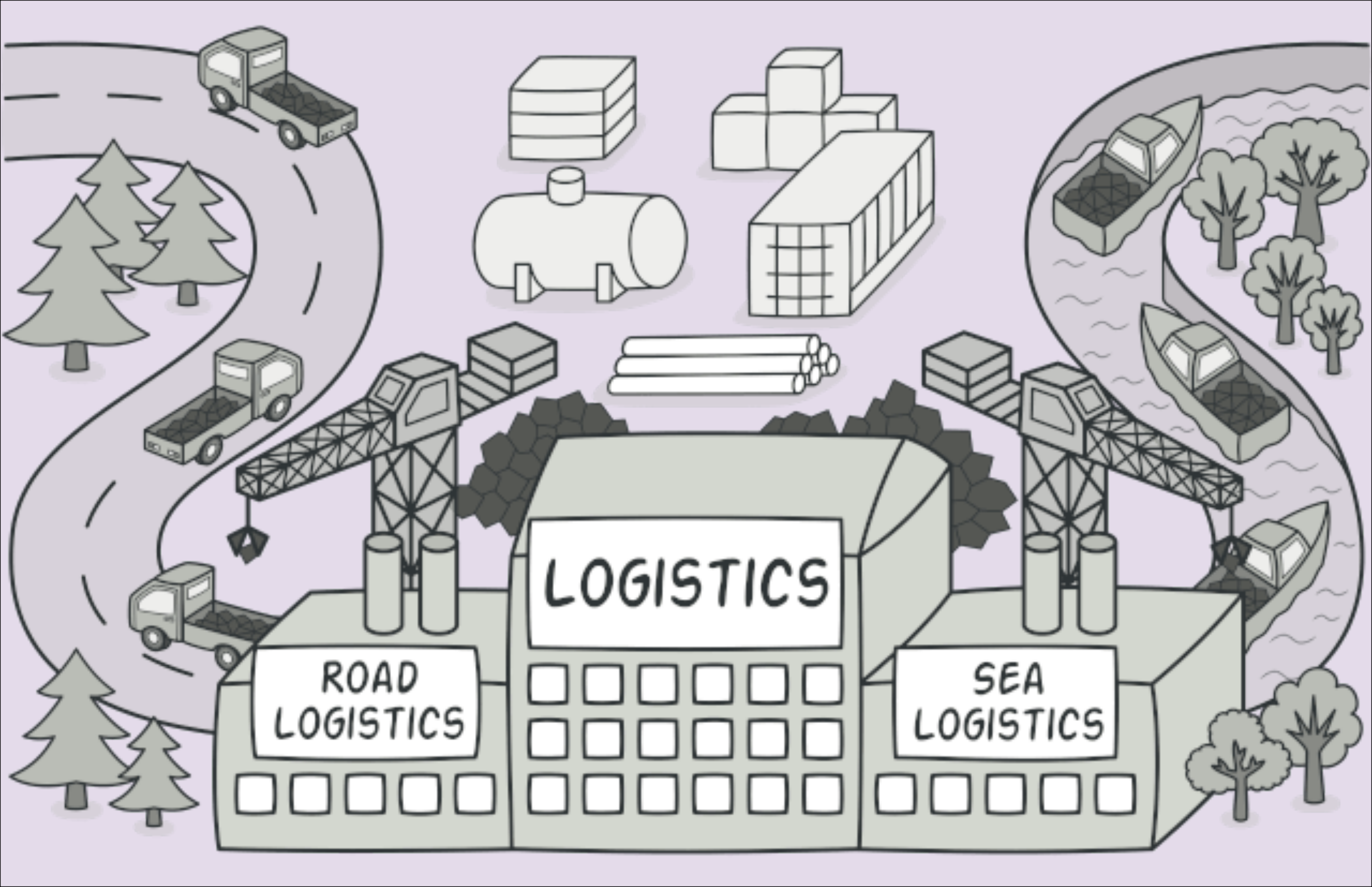




Builder Design Pattern

OGIF #6

Building on previous
Factory pattern...



LOGISTICS

ROAD
LOGISTICS

SEA
LOGISTICS

DrinkFactory.createJager()?

“But I like my drink a bit more **X** and **Y** and **Z**”

*Let's **build** it out*



Drink → DrinkBuilder

```
new DrinkBuilder()  
  .name("JagerBomb")  
  .addIngredient("Jagermeister", 30)  
  .addIngredient("Redbull", 120)  
  .mix();  
  
new DrinkBuilder()  
  .name("JagerGrenade")  
  .addIngredient("Jagermeister", 30)  
  .addIngredient("Tequila", 30)  
  .addIngredient("Vodka", 30)  
  .addIngredient("Redbull", 50)  
  .mix();
```

The Builder class

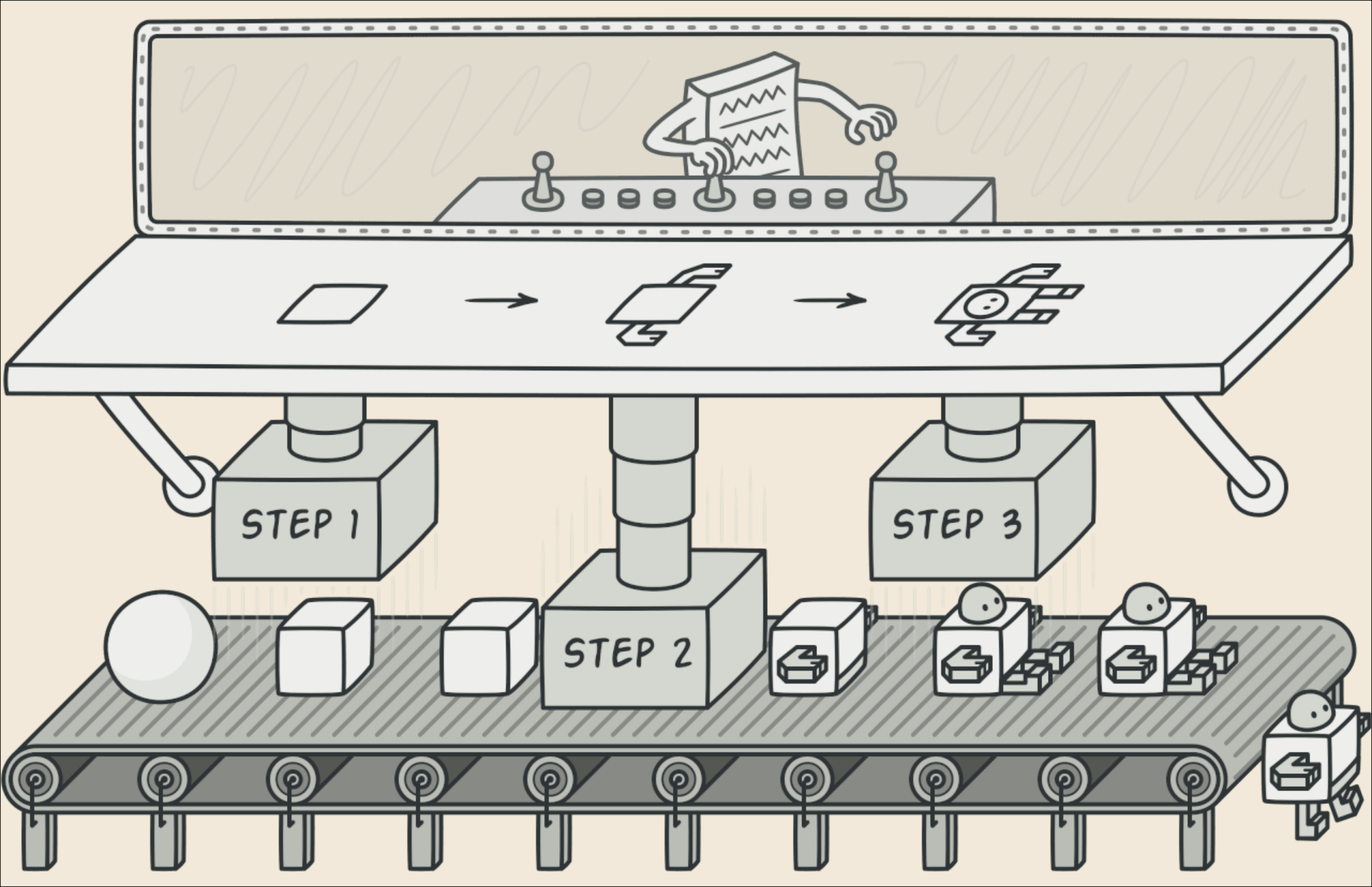
```
class DrinkBuilder implements Builder {
    private drink: Drink;
    private name = "";
    private ingredients = [];

    constructor() {}

    name(n: string) {
        this.name = n;
        return this;
    }

    addIngredient(name: string, ml: number) {
        this.ingredients.push({ name, ml });
        return this;
    }

    mix() {
        return new Drink(this.name, this.ingredients);
    }
}
```



Real life examples

Chained Method Calls

When a chain of method calls is too long to fit on one line, the methods are called on the result of the previous call.

```
1 | elements
2 |     .addClass( "foo" )
3 |     .children()
4 |     .html( "hello" )
5 |     .end()
6 |     .appendTo( "body" );
```

```
wretch("anything")
  .get()
  .notFound(error => { /* ... */ })
  .unauthorized(error => { /* ... */ })
  .error(418, error => { /* ... */ })
  .res(response => /* ... */)
  .catch(error => { /* uncaught errors */ })
```

spotify-web-api-node / src / spotify-web-api.js

Code

Blame

1662 lines (1551 loc) · 69.8 KB

```
117     */
118     ✓ getTrack: function(trackId, options, callback) {
119         return WebApiRequest.builder(this.getAccessToken())
120             .withPath('/v1/tracks/' + trackId)
121             .withQueryParameters(options)
122             .build()
123             .execute(HttpManager.get, callback);
124     },
```

Thank you.

