Object Oriented Programming In TypeScript

Concepts and Examples

What is Object Oriented Programming?

Object-Oriented Programming (OOP) is a programming paradigm in computer science that relies on the concept of classes and objects. It is used to structure a software program into simple, reusable pieces of code blueprints (usually called classes), which are used to create individual instances of objects.

```
class Person {
    name: string;
    constructor(argument: string) {
        this.name = argument;
    sayHello() {
        return "Hello, " + this.name;
const person = new Person("Tyler");
person.sayHello(); // "Hello, Tyler"
```

The Four Pillars of OOP

- Inheritance: Child classes inherit data and behaviors from their parent class
- Encapsulation: Containing information in an object, exposing only selected information
- Abstraction: Only exposing high-level public methods for accessing an object
- Polymorphism: Accessing variable types from the same routine at run time

Let's see some code...

https://github.com/longislandjavascript/meetup-event-05-2023



Sources

https://www.educative.io/blog/object-oriented-programming

https://medium.com/@shanikae/polymorphism-explained-simply-7294c8deeef7

https://blog.bitsrc.io/inheritance-vs-composition-which-is-better-for-your-javascript-project-16f4a077de9