

# INHERITANCE PATTERNS

JavaScript as development platform

Developed almost 20 years ago, JavaScript has outstanding expressiveness and flexibility allowing developer to choose how and what to program with JavaScript rather than dictating a way it meant to be used by its creators. What makes JavaScript unique is prototypal inheritance and lack of fixed schema for objects. Dynamic class-free type system of JavaScript allows to not only using natural prototypal inheritance but also practices brought from other languages. The goal of this assignment is to familiarize yourself with various inheritance patterns and develop practical skills in design and implementation of object hierarchies.

## Problem

Design and implement hierarchy of fishes. Based on designed hierarchy, make sushi and calculate a price of it. Additional requirements:

- 1) Pick only esculent fish
- 2) Recipe of your Sushi should include but no limited to:
  - a. Rice
  - b. Nori
  - c. Sauce
  - d. Wasabi
- 3) Total price is calculated based on price of ingredients

Provide 3 different solutions using:

- 1) Pseudo-classical pattern
- 2) Prototypal pattern
- 3) Parasitic (Functional) pattern

Your hierarchies should be designed with principles of polymorphism and encapsulation (strict and conventional) in mind.