

Object Oriented Programming

The Swift Programming Language Part 5, Section 1

What is OOP?

- A programming paradigm that focuses on objects and classes.
- Allows organizing code in a modular and reusable manner.

Object Oriented Programming



OOP

Terms commonly used in OOP

- Class
- Method
- Object
- Attribute/Property

OOP

What is class?

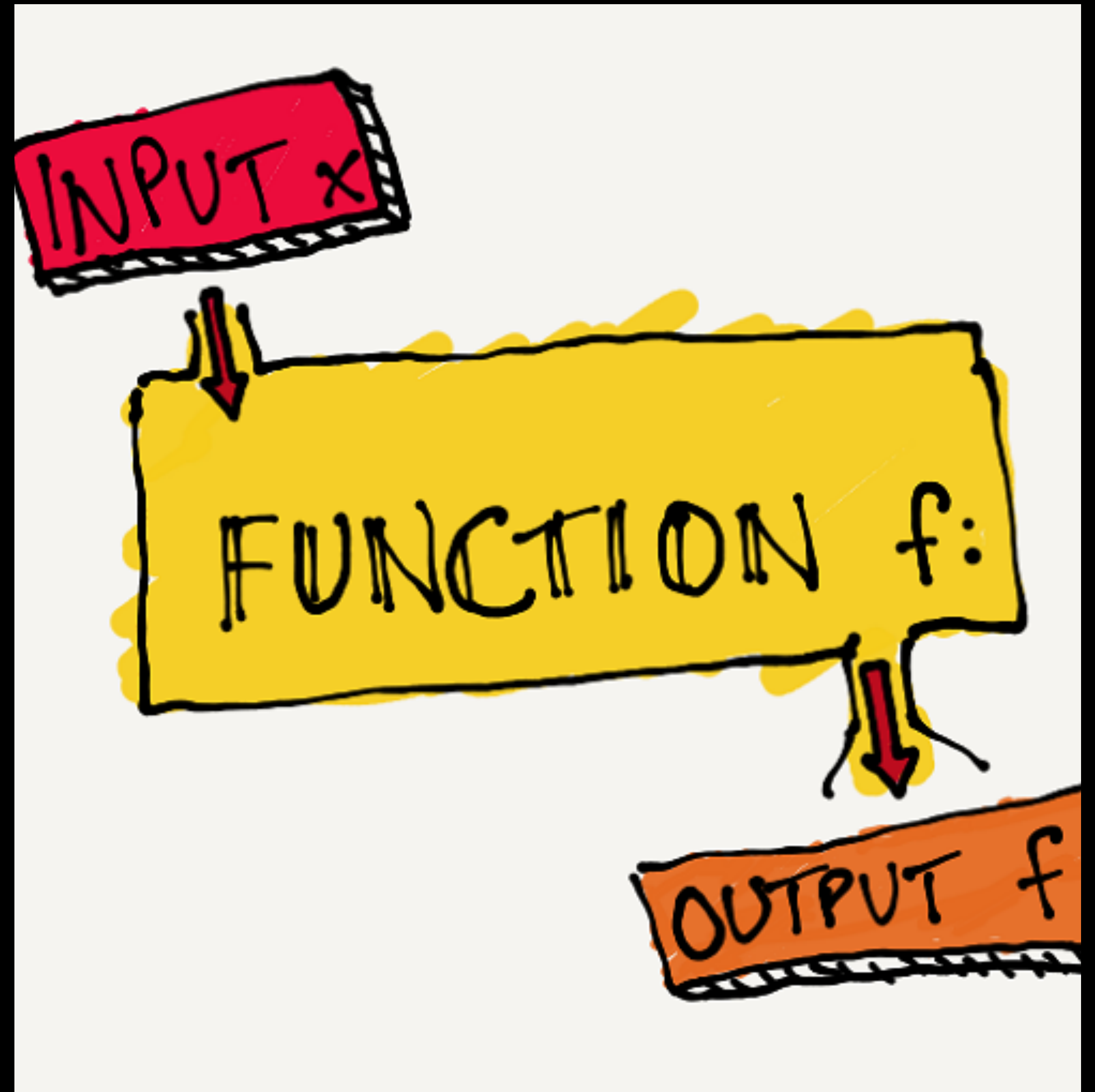
- Blueprints to create an object
- Blueprints for example act as pudding mold or cake mold



OOP

What is method?

- Method is a function that are inside body of class
- Method same as function that create set of steps that can be called



OOP

What is object?

- Remember our class as blueprints or mold?
- Now, object is for example act as content of mold (eg: cake dough, pudding dough, etc)
- An instance that called from class is object



OOP

What is property/attribute?

- Property is for example act as topping in dough
- Property means variable that available in class



How to do an OOP?

```
struct Student { // Blueprints
    var name: String // Property with initializer
    var id: String
    var cohort: Int
}

// Student() is instance, var studentA is object
var studentA = Student(name: "Erlangga", id: "A11.2020.12500",
    cohort: 2020)

print("What is student A ID?", studentA.id) // Output:
A11.2020.12500
```


Thanks For Your Attendance Today!

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