## **OOP Principles**

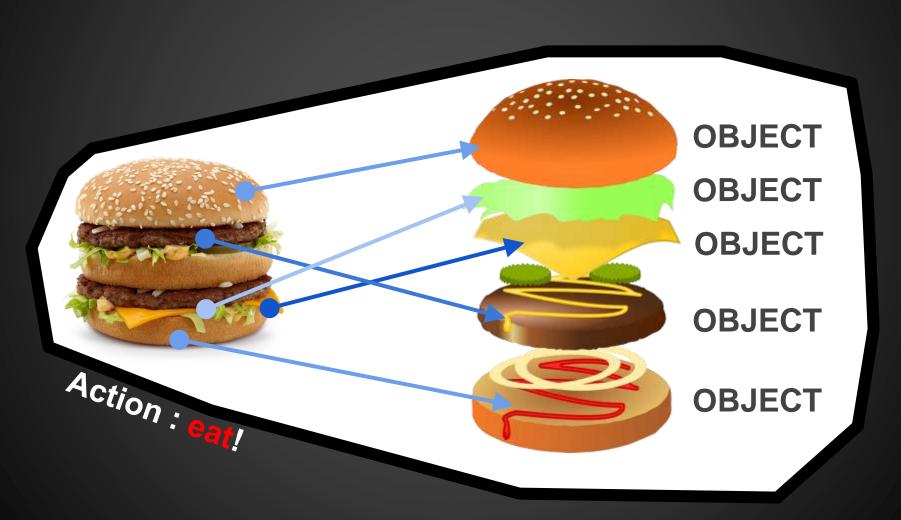
I like a hamburger!

## OOP?

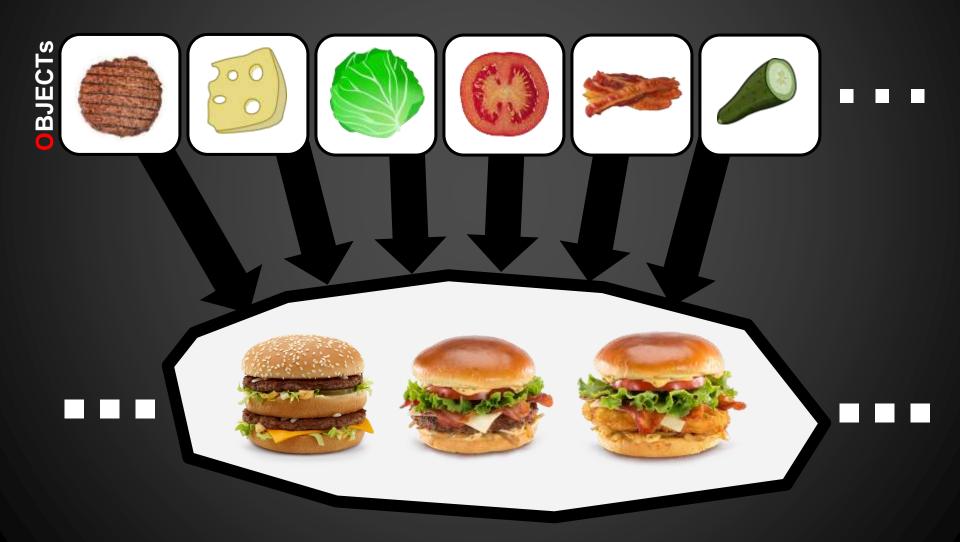
### Something to eat?



# OOP Object-Oriented Programming



## OOP Object-Oriented



## What is the "Principles"?

- Guidelines for the best way!
- Use to define a word!
- Prevent to mistake!
- etc.

## Principles for OOP

**5 Major Design Principles for OOP** 

S. O. L. I. D

**4 Major Principles for OOP** 

**Data Abstraction** 

**Encapsulation** 

**Inheritance** 

**Polymorphism** 

## Data Abstraction





**Hamburgers** 

**Beverage** 

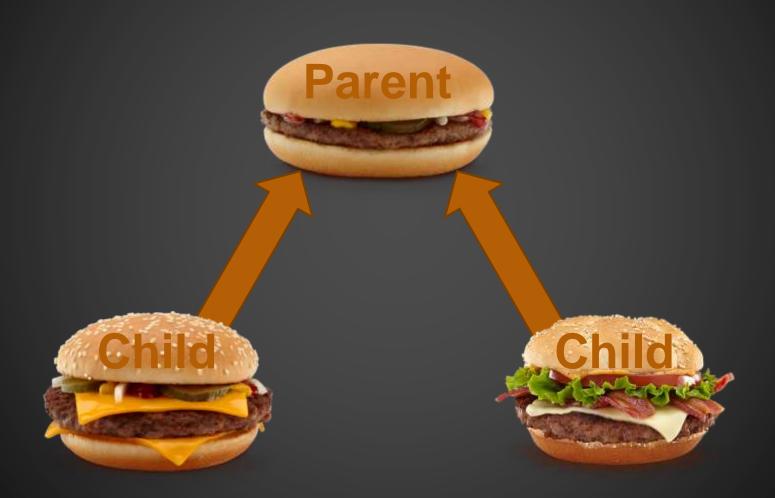
**FOOD** 

## **Encapsulation**



# Just eat! Call eat action!

## Inheritance



## **Polymorphism**

# Just eat! Call eat action!

But



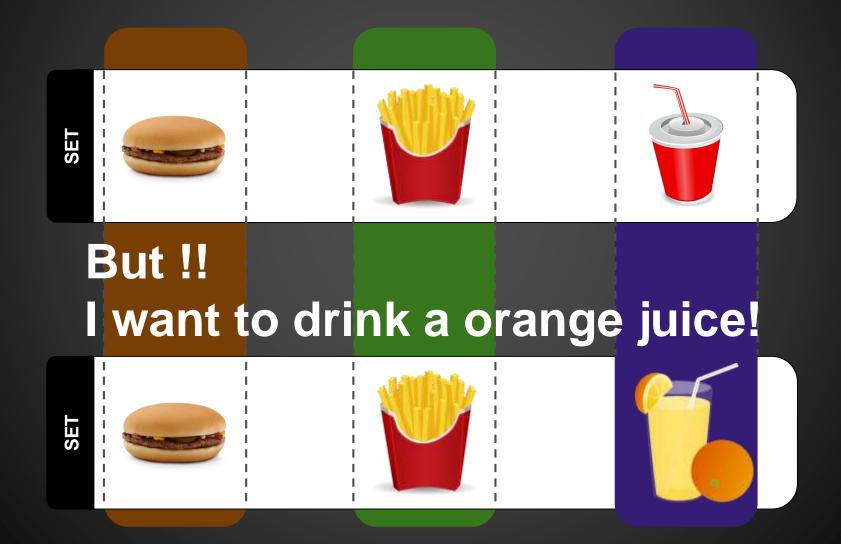
[Eat] eat(void)

[Eat] eat(withBeverage)

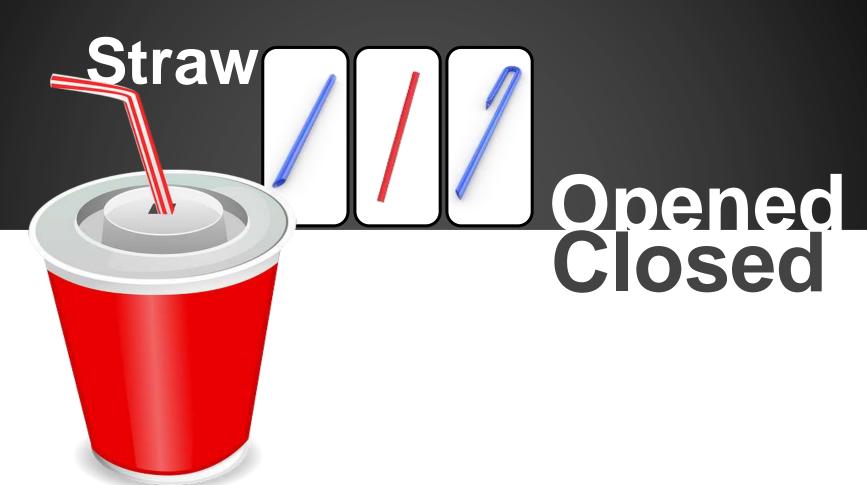
[Eat] eat(withSnack)

Eat .....

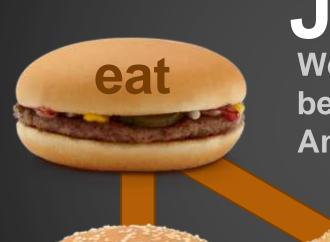
### SRP (Single Responsibility Principle)



## **OCP (Open Closed Principle)**



## LSP (Liskov Substitution Principle)



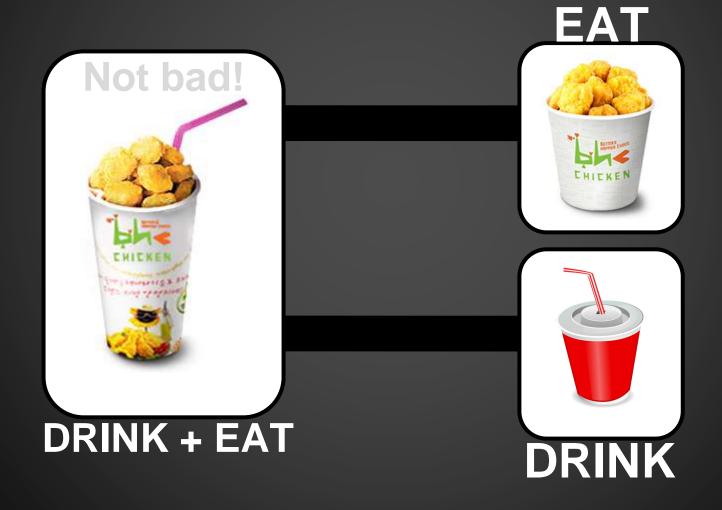
## Just eat!!!

We can eat all hamburgers because contains "Eater Action"! And all action is true!

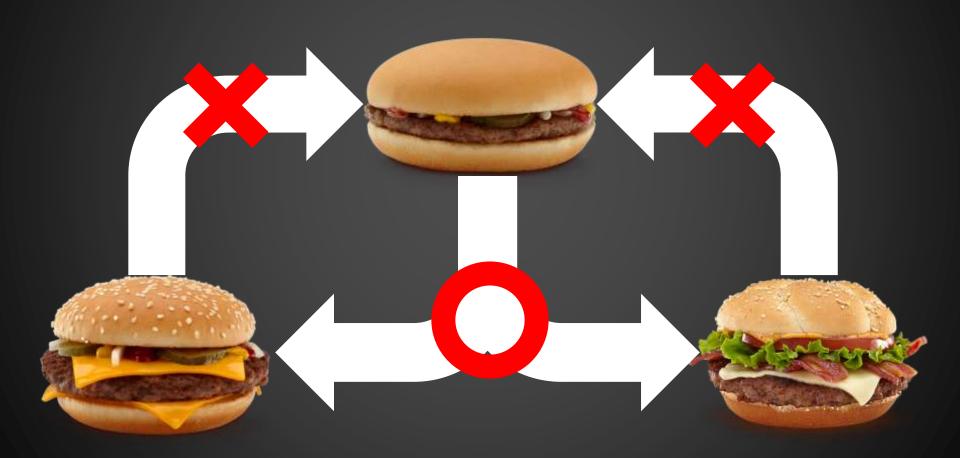




## ISP (Interface Segregation Principle)



## **DIP (Dependency Inversion Principle)**



# Q/A

### Thanks to

- MCDoxxld in America
- BHX in Korea