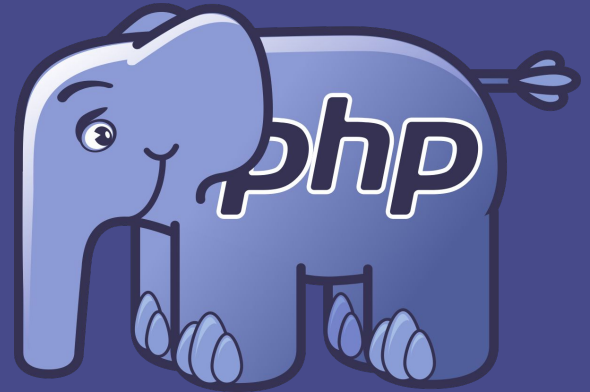# PHP Course Lecture 3

Temuri Takalandze

@ABGEO

File Inclusion

```php
<?php
    // Function.php

    function doSomething() {
        echo "Some function in another file";
    }
```

```php
<?php
    // index.php

    include __DIR__ . "/function.php";

    doSamething();
```

File Inclusion

- include()
- require()
- include_once()
- require_once()

JSON Encode

```php
<?php
    $person = [
        'firstName' => 'John',
        'lastName' => 'Doe',
        'age' => 25,
    ];

    $personJson = json_encode($person);

    echo $personJson; // {"firstName":"John","lastName":"Doe","age":25}
```
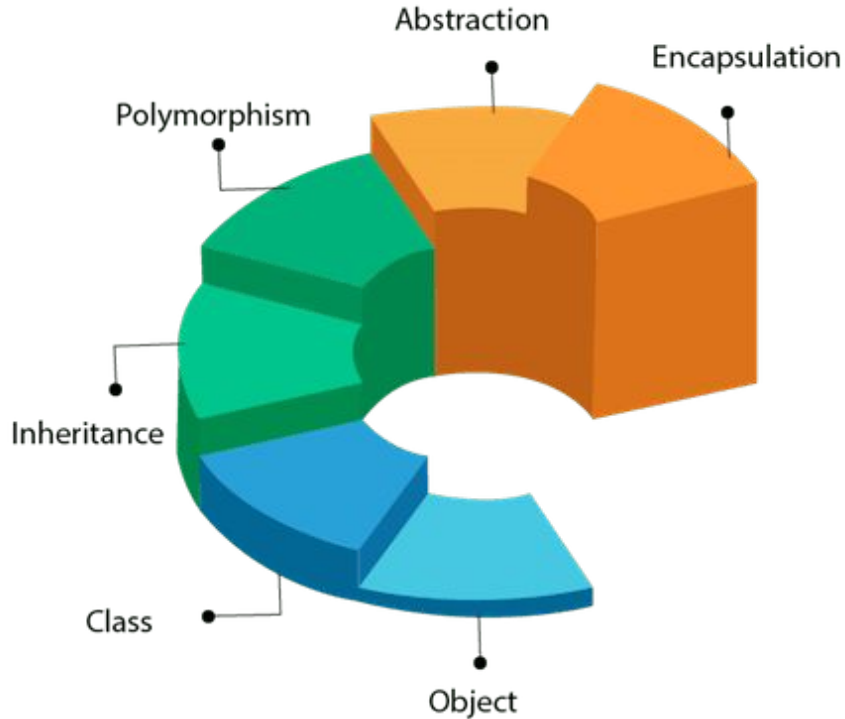
JSON Decode

```php
<?php
    $personJson = "{\"firstName\":\"John\",\"lastName\":\"Doe\",\"age\":25}";
    $person = json_decode($personJson, true);

    var_dump($person);
    //array(3) {
    //  'firstName' =>
    //  string(4) "John"
    //  'lastName' =>
    //  string(3) "Doe"
    //  'age' =>
    //  int(25)
    //}
```
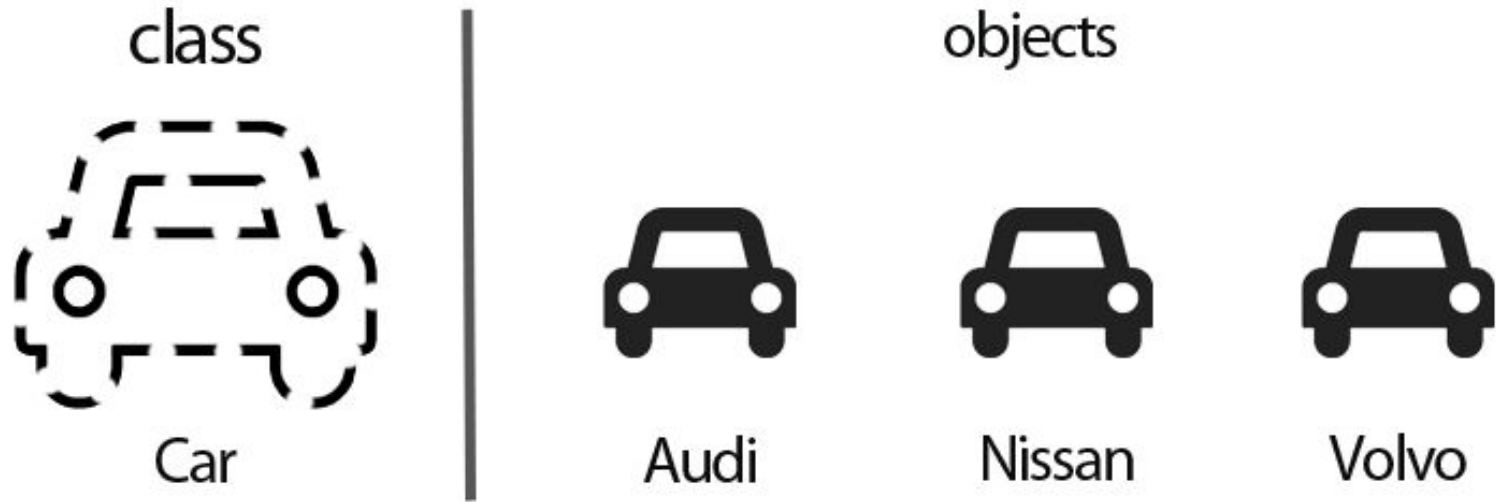
Object Oriented Programming (OOP)

What is Object Oriented Programming?

Classes and Objects

Classes and Objects

```php
<?php

    // Define a Car class
    class Car {

        // Class properties go here

        // Class methods go here

    }

    // Create new objects of Car class
    $audi = new Car();
    $nisan = new Car();
    $volvo = new Car();
```

Class Fields and Methods

```php
<?php
    class Car {
        public string $vendor;
        public string $color;

        public function beep() {
            echo "Beep! Beep!\n";
        }

        public function drift() {
            echo "Look at me, I'm drifting!\n";
        }
    }

    $car = new Car();
    $car->vendor = "Audi";
    $car->color = "Black";
```
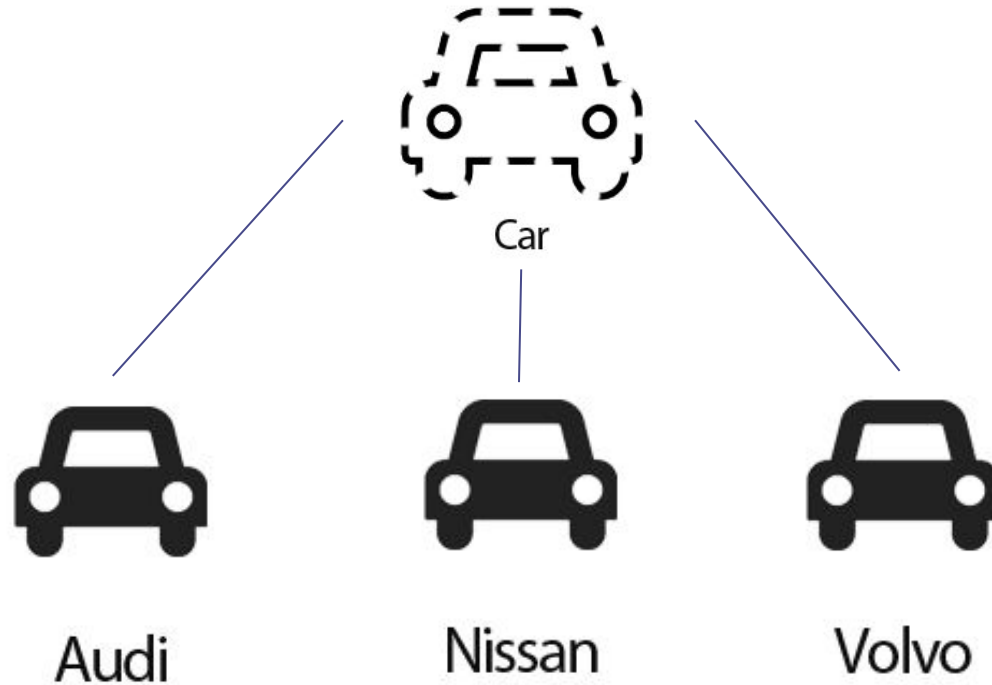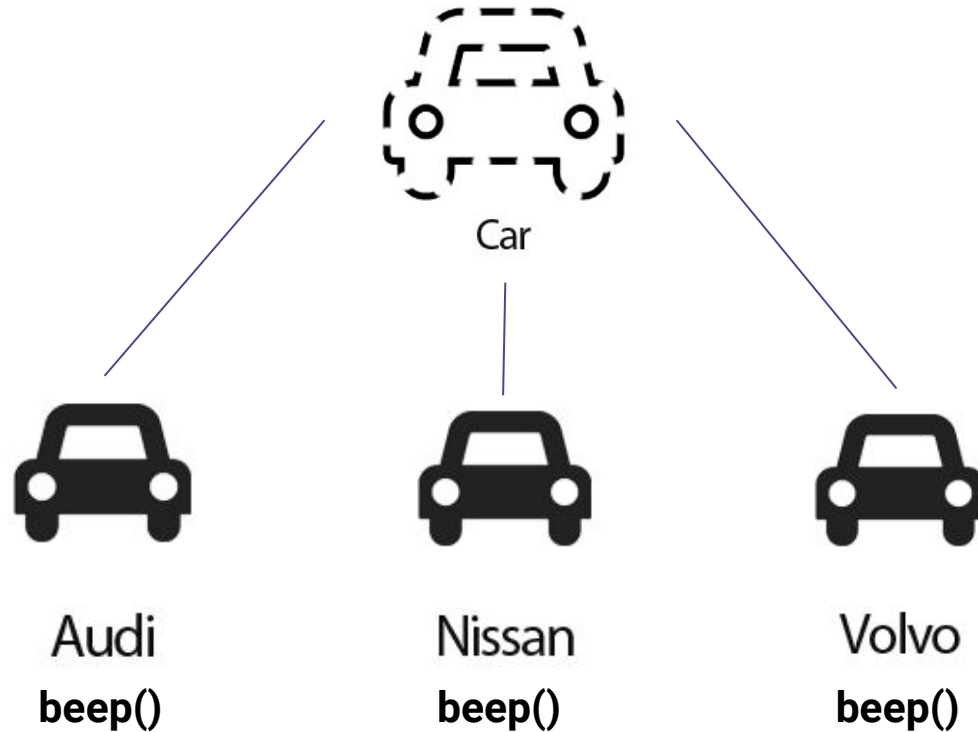
Access Modifiers

Encapsulation

Class → Methods | Variable

Inheritance

Car

Audi   Nissan   Volvo

Polymorphism

Car

Audi
beep()

Nissan
beep()

Volvo
beep()

Interfaces

move();