Intro Object Oriented Programming

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### Agenda

```
└── Intro POO
├── Scenario
├── Object oriented solution
└── Classes
```



# **Programming paradigm**

 A high level model to conceptualize and structure a computer program implementation

## **Implementation**

The process of moving an idea from concept to reality

### **Primitives**

- bvte = 0 short = 0
- int = 0
- lona = 0Lfloat = 0.0f
- double = 0.0d
- boolean = false
- char = '\u0000'

### Non-primitives

- String = null;
- int[]
- float[]
- String[]

When do we use new?

#### new

A Java keyword used to create an instance of a class.

## Magic words?

What does the keywords in function main mean?

## Intro POO

#### Scenario

We want a program to store UPA personnel data (students, teachers, admins, etc), for each user we want:

- Name
- Age
- Email

Does it scale well for three users?

## Object oriented solution

We want to bind all our properties (name, age, email) together as a single entity/object.

# Usuario

edad : int correo : str nombre : str Our endgoal is to group our attributes into a single object

- 1 personal.nombre
- 2 personal.edad
- 3 personal.correo

#### Let's focus on the red section

# Usuario

edad : int correo : str nombre : str What's our name convetion for classes?

```
1 class Usuario {
2    ...
3 }
4 class E9IntroPoo{
5    public static void main (
6         String[] args
7    ){...}
8 }
```

## Finally lets complete our full class

Usuario

edad : int correo : str nombre : str



https://www.oracle.com/java/technologies/glossary.html https://docs.oracle.com/javase/tutorial/java/nutsandbolts/arrays.html