// FLATIRON SCHOOL

Object Oriented Programming Presented by Wachira Ndaiga January 27, 2020

Object Oriented Programming

For Data Science



Agenda

Introduction

- A Brief History
- Why OOP?
- What is OOP?

Breakout Session (10 mins)

Practical

- Terminator

A brief history

Programming

Low-level to High-level Languages Formal Programming Paradigms SmallTalk at Xerox PARC



Why 00P?

Spaghetti code is an **anti-pattern** in software design and development which features messy, convoluted **control flow**.

OOP is a paradigm that helps us to better understand, design, maintain and build software.



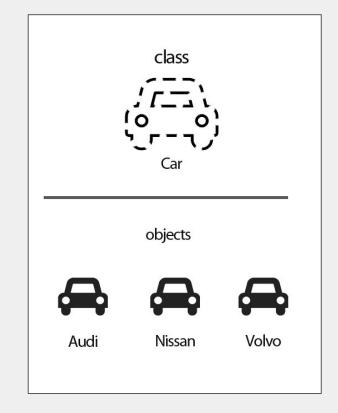
What is OOP?

Organizes code into object definitions where data and behaviour are matched.

OOP Pillars

Encapsulation - state management **Abstraction** - public interface

Inheritance - shared composition **Polymorphism** - unique composition



Breakout

- What is the spaghetti code antipattern and consider one personal example where it affected you.
- What the the four tenets of Object Oriented Programming and how do they help simplify software development?
- What other types of programming paradigms exist and why might they exist?
- 4. What is meant by composition > inheritance and how does it affect how I/we develop software?

Q&A

Practical

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Good Code

Good code gets easier. Good code is iterative. **Good code is a mindset.**

Practice makes perfect!

