

Object-oriented Programming with Go

INTRODUCTION



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Demo / Slide – OOP vs structural programming



Overview



What is OOP?

Go and OOP

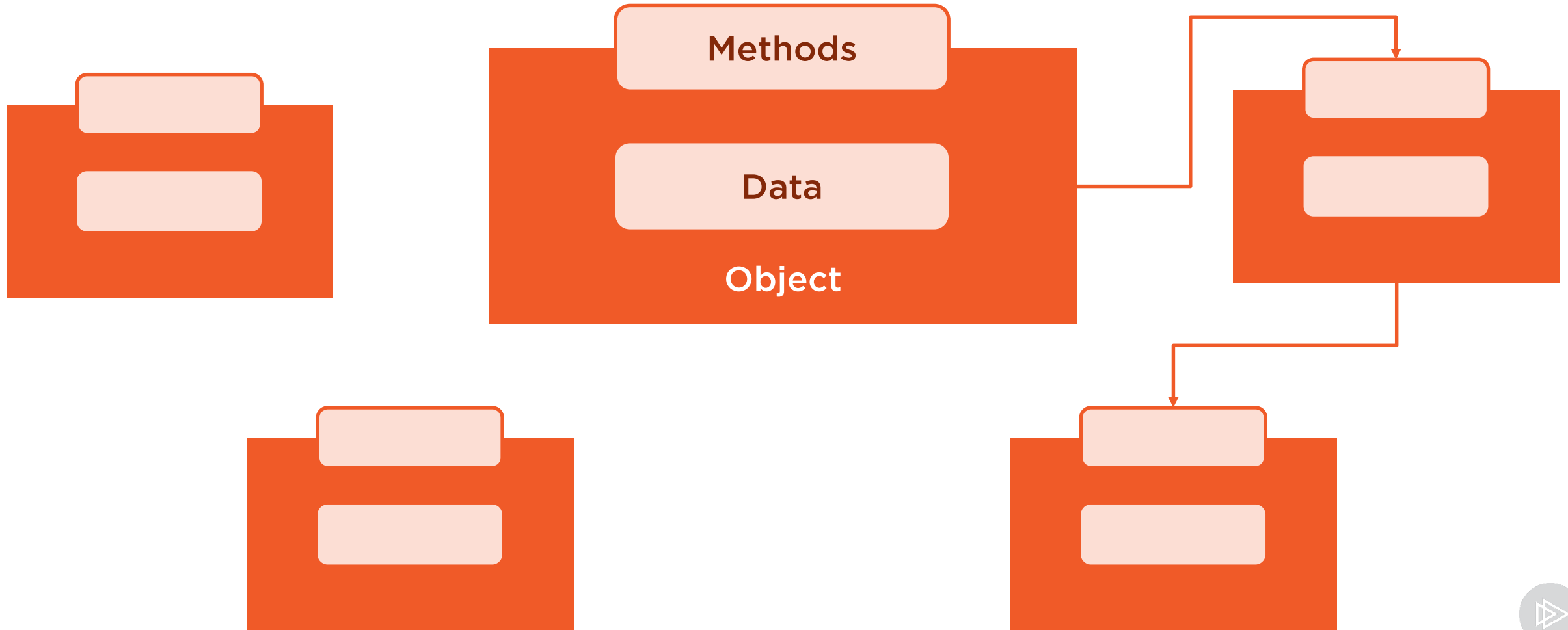
Course overview



Compose applications of
objects that interact to
deliver behaviors



Objects





Encapsulation

Message passing

Inheritance

Polymorphism



History of Object Oriented Programming

Conceptualization
late 1950s

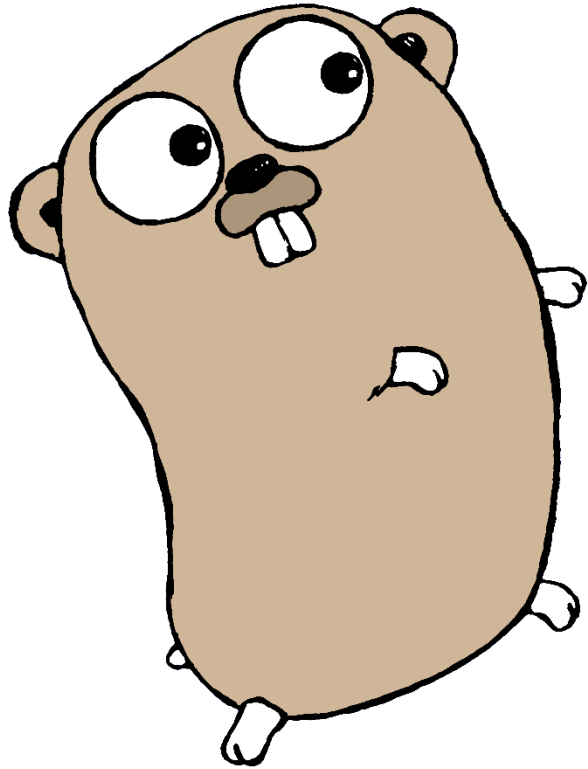
Smalltalk created
1970s

Simula 67
1967

Those who don't know history are doomed to repeat it
Edmund Burke



Challenges of OOP in Go



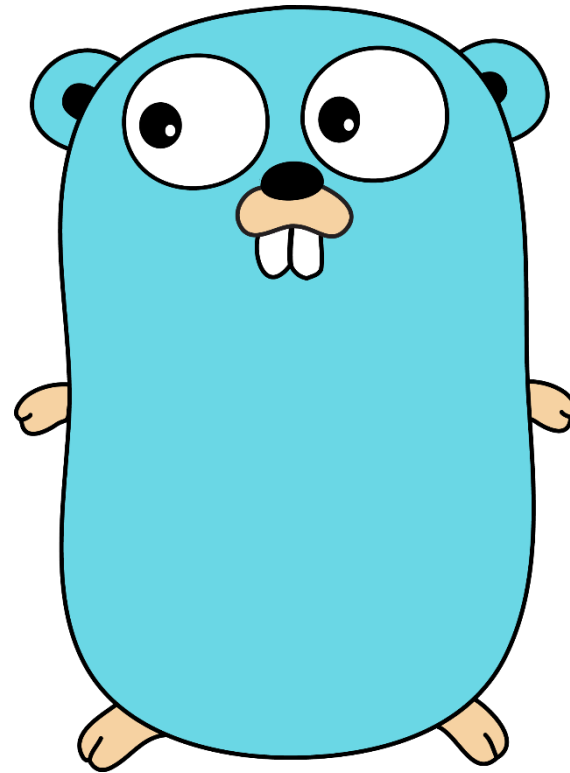
Go is not a **class and object** language

Go does not have **private data**

Go does not support **inheritance**

Go does not have **abstract base types**

Methods
Package oriented
design
Type embedding
Interfaces



Course Overview

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Encapsulation

Message Passing

Composition

Polymorphism



Summary



What is OOP?

Go and OOP

- Interfaces
- Package oriented design
- Type embedding
- Methods

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