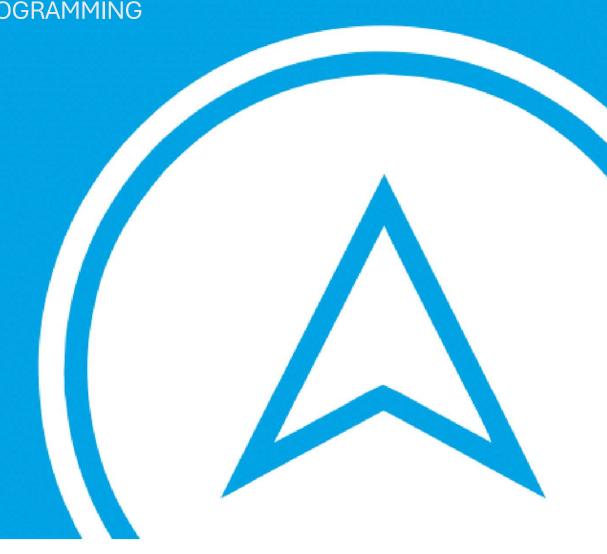
MODULE 1: INTRODUCTION TO PROGRAMMING

Polymorphism





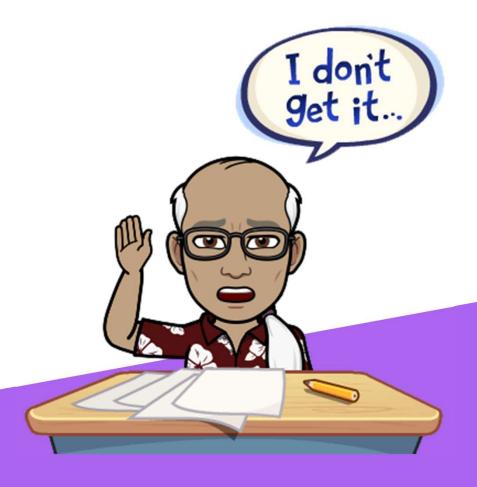
Yesterday

- What is an example of inheritance?
- What is a superclass or base class?
- What is a subclass?



Polymorphism

- Poly Many
- Morph Change or shape
 In object-oriented programming,
 polymorphism is the idea that
 something can be assigned a different
 meaning or usage based on the
 context for which it is referred. This
 specifically allows variables and
 objects to take on more than one form.



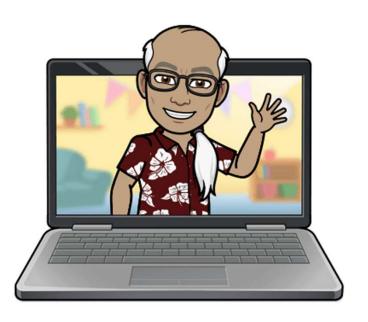


Polymorphism through Inheritance





LET'S CODE!

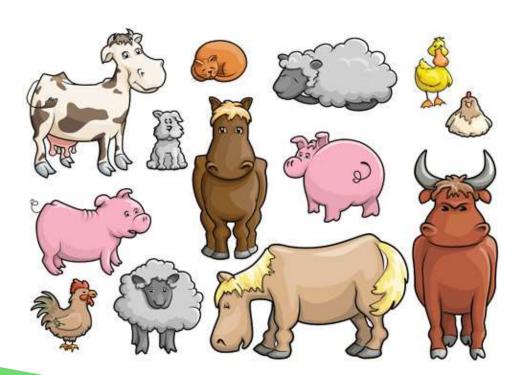




Polymorphism through Interfaces







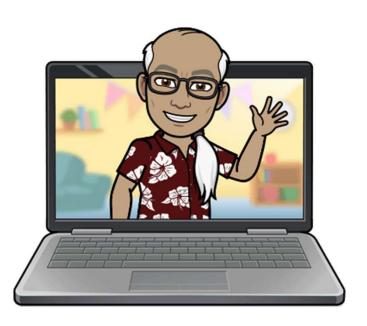


Interface

- Define what something can do or how it can be used, but not how it does it.
- An interface is a contract that defines what methods a user of the interface can expect
 - What are the methods I can rely on being there for this object?
- Cannot be instantiated
- Multiple Interfaces are allowed for a single object
- if Class A implements interface B, then A "is-a" B
 - And so are all its children



LET'S CODE!





Real World Example

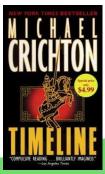










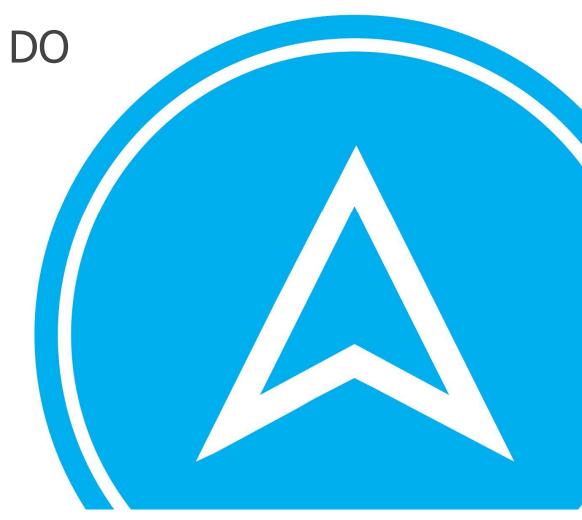






WHAT QUESTIONS DO YOU HAVE?





Reading for tonight:

