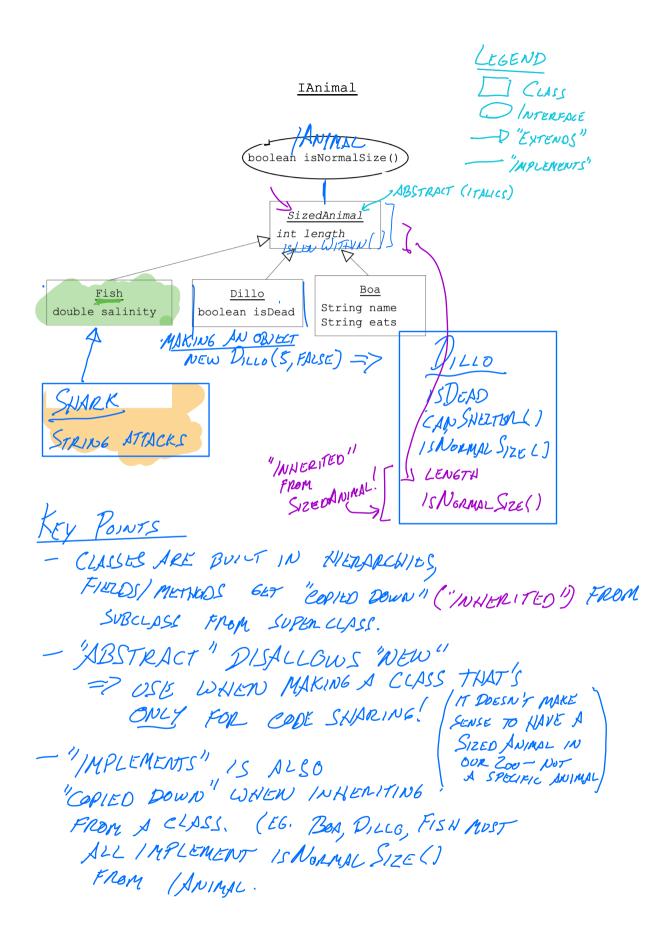


- Interfaces define behavior required for a class ("All IAnimals must have isNormalSize() method"
- Classes are built in hierarchies, fields/methods are "copied down" or <u>inherited</u> in subclass from its superclass
- "abstract" disallows "new" -> CANT DO NEW SIZE O MINAC (5)
 => Use this when making a class that's only for code sharing!
 (Doesn't make sense to have a SizedAnimal, it's not a specific animal)
- "implements" is also "copied down when inheriting from a class. Boa, Dillo, etc. all inherit the requirement for isNormalSize()



CREATING A SHARK NEW SHARK (...) => FROM SIZENANIMAL ISLEW WITHIN! From FISH SALINITY IS NORMAL SIZEL) FROM SHARK STACKS
ISNORMALSIZE() - SHARK IS NOT REQUIRED TO HAVE ITS OWN IS NORMAL SIZE() BECAUSE FISH NAS ONE.

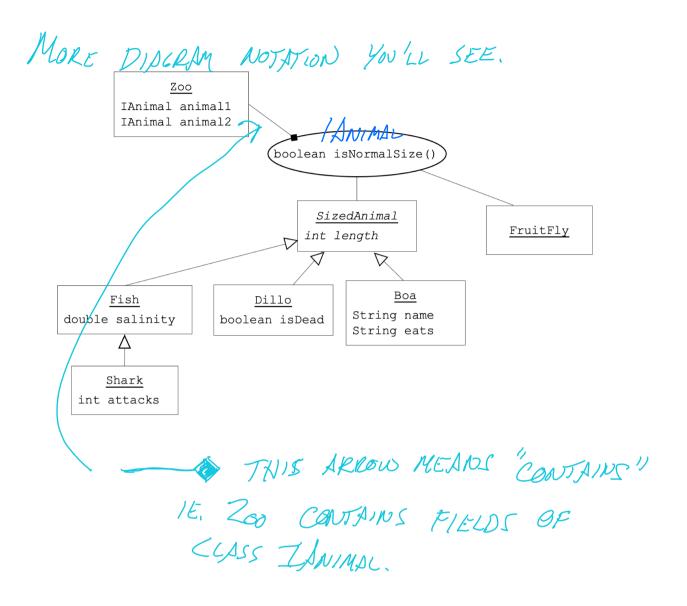
FISH NAS ONE.

BUT, WE ADD AN ISMORMAL SIZE() TO

HAVE A SWARK-SPECIFIC VERSION.

IF WE DO THIS IT "OVERRIDES"

THE VERSION IN FISH.



```
UPDATING OBJECTS/FIELDS
                                                  public class Boa {
                                                      public string name;
                                                      public int length;
                                                      public string eats;
                                                      public Boa (String name,
                                                                  int length,
                                                                  String eats) {
                                                         this.name = name ;
                                                         this.length = length ;
    IN THIS EXAMPLE ...
                                                         this.eats = eats ;

Boa boa1 = new Boa("slinky", 30, "apples");
Boa boa2 = new Boa("slim", 30, "bugs");

  WHAT IS
                                             boal.eats = "tofu";
boa2 = new Boa("slim", 15, "grass");
             BOAL, EATS??

Ø Boa boa3 = boa1;

                                           boa3.eats = "donuts";
  ENVIRONMENT (NAMES)
                                                 HEAD (OBJECTS)
  1 BOAL
                                                   "SHNKY"
                                                                   3) FIELD UPDATES
                                                                   6) UPPATE THE
(9) BOA 2 NOW REFERS
                                                                    FIELD NAME OF
TO NEW OBJECT
                                                                    THIS OBJECT!
 (OLD ONE IS CLEMED UP)
               NOW REFERS TO THE
              SAME OBJECT AS THE
NAME "BOAL"
  PRINT (BOAT, EATS) => "DODUTS" THIS IS
                                                  "6RASS"
 PRINT (BOA3. EATS) => "DONUTS"
                                      COMMON MISCONCEPTION! OKAY IF IT SEEMS WEIRD NOW.
```