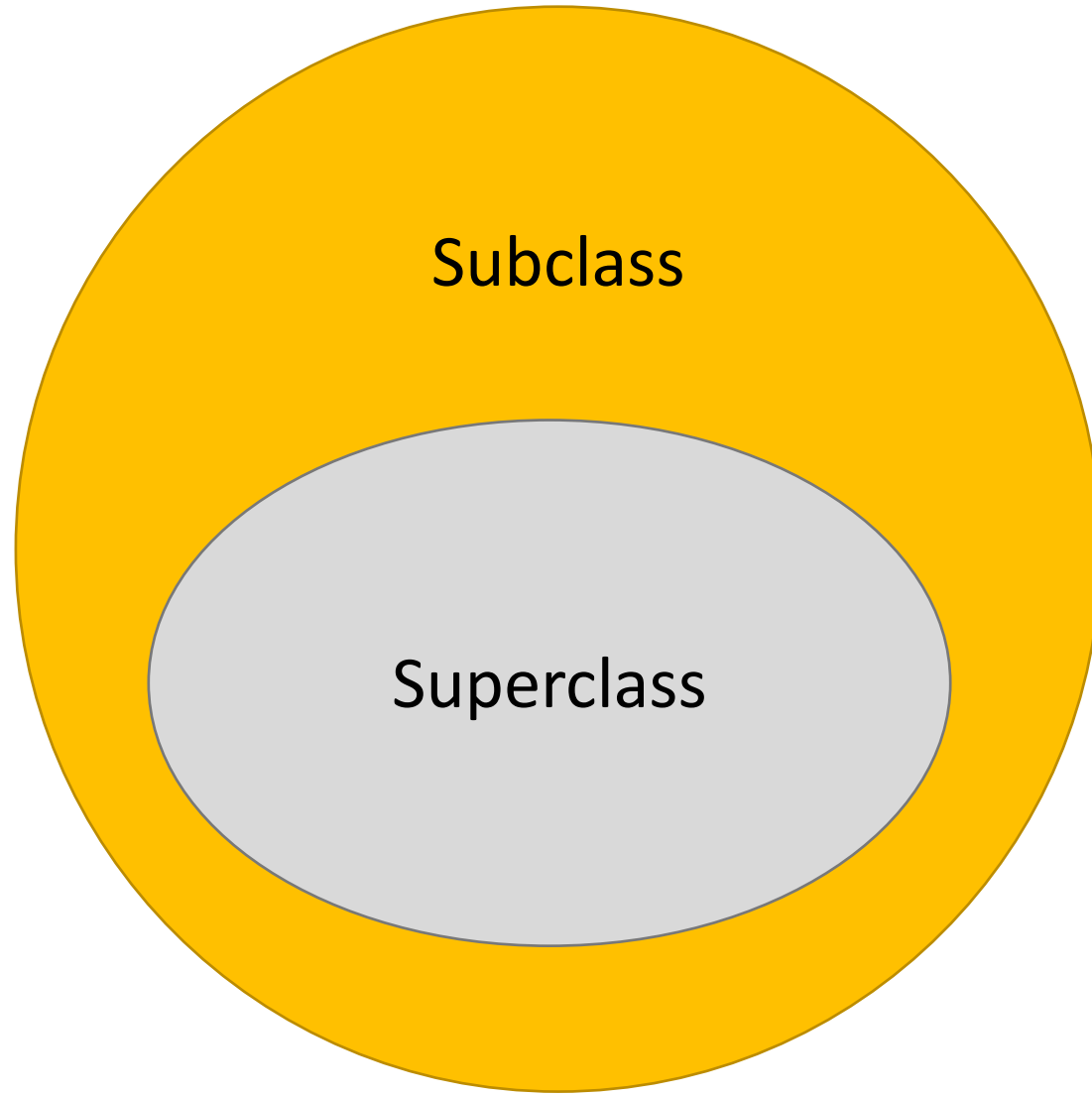
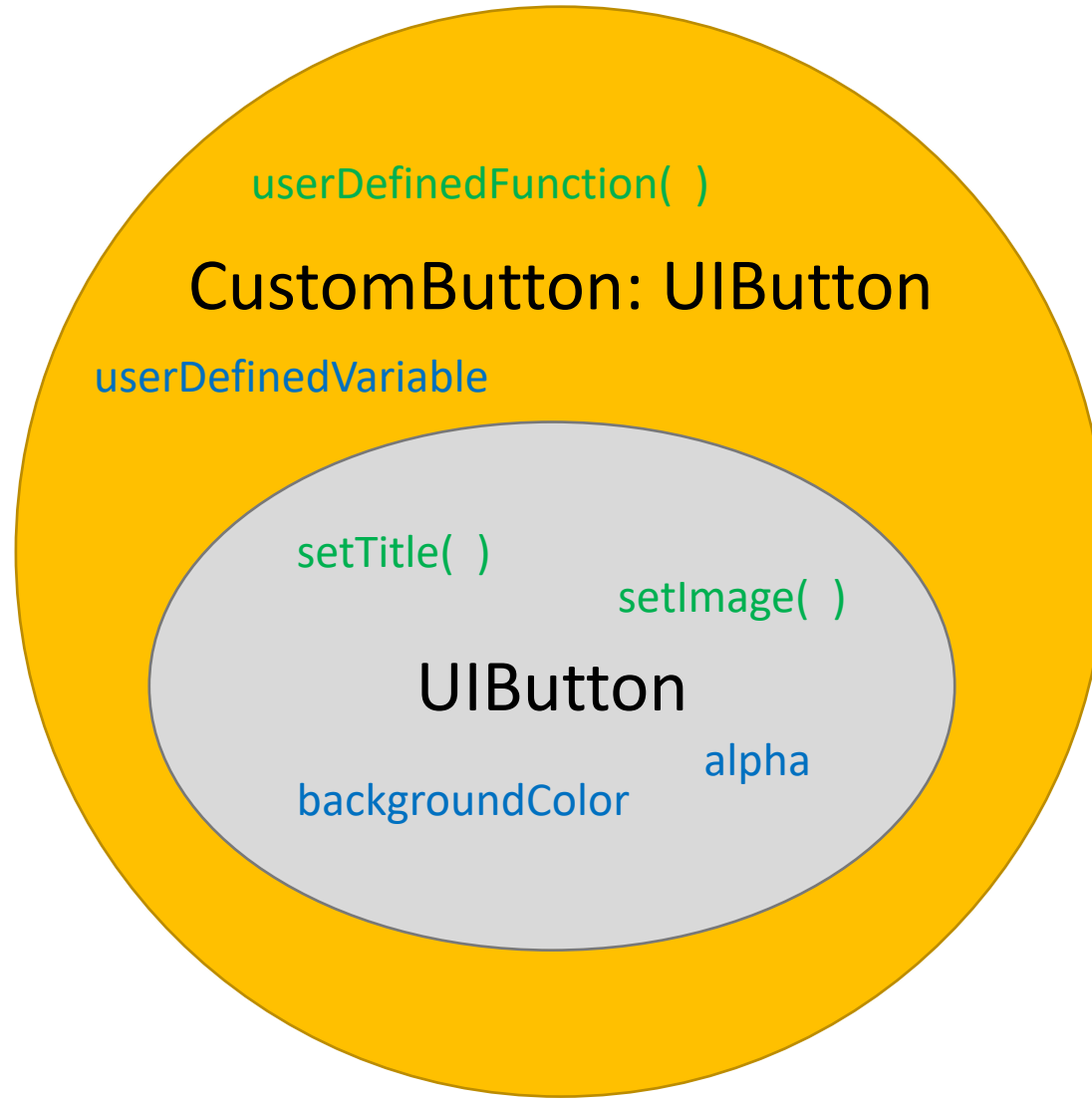


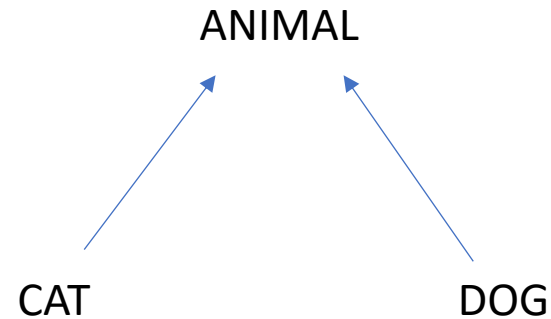
# **Inheritance and Typecasting**





# Typecasting

- Upcasting can NEVER fail
- Downcasting can fail



- Casting does not change the object, we are just treating / labelling it differently

# Typecasting

```
var view: UIView = CustomView( ) // CustomView is the subclass of UIView  
                                // CustomView is upcasted to UIView  
                                // Can be downcasted later on (back to  
                                // CustomView)
```

```
var view: UIView = UIView( ) // can't be downcasted to CustomView or any  
                             // class that subclass UIView( )
```

Dog and Animal analogy