Class Inheritance

Extend and reuse code

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Overview

- `NSObject`
- Subclass
- Overriding Methods
- `super`

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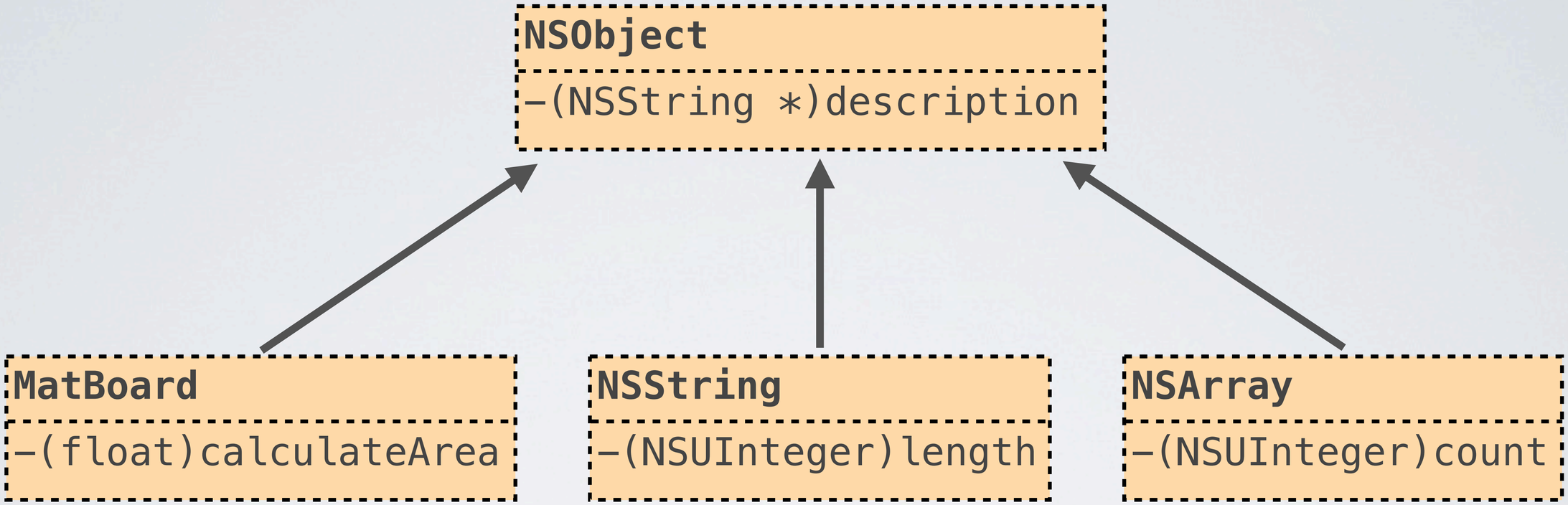
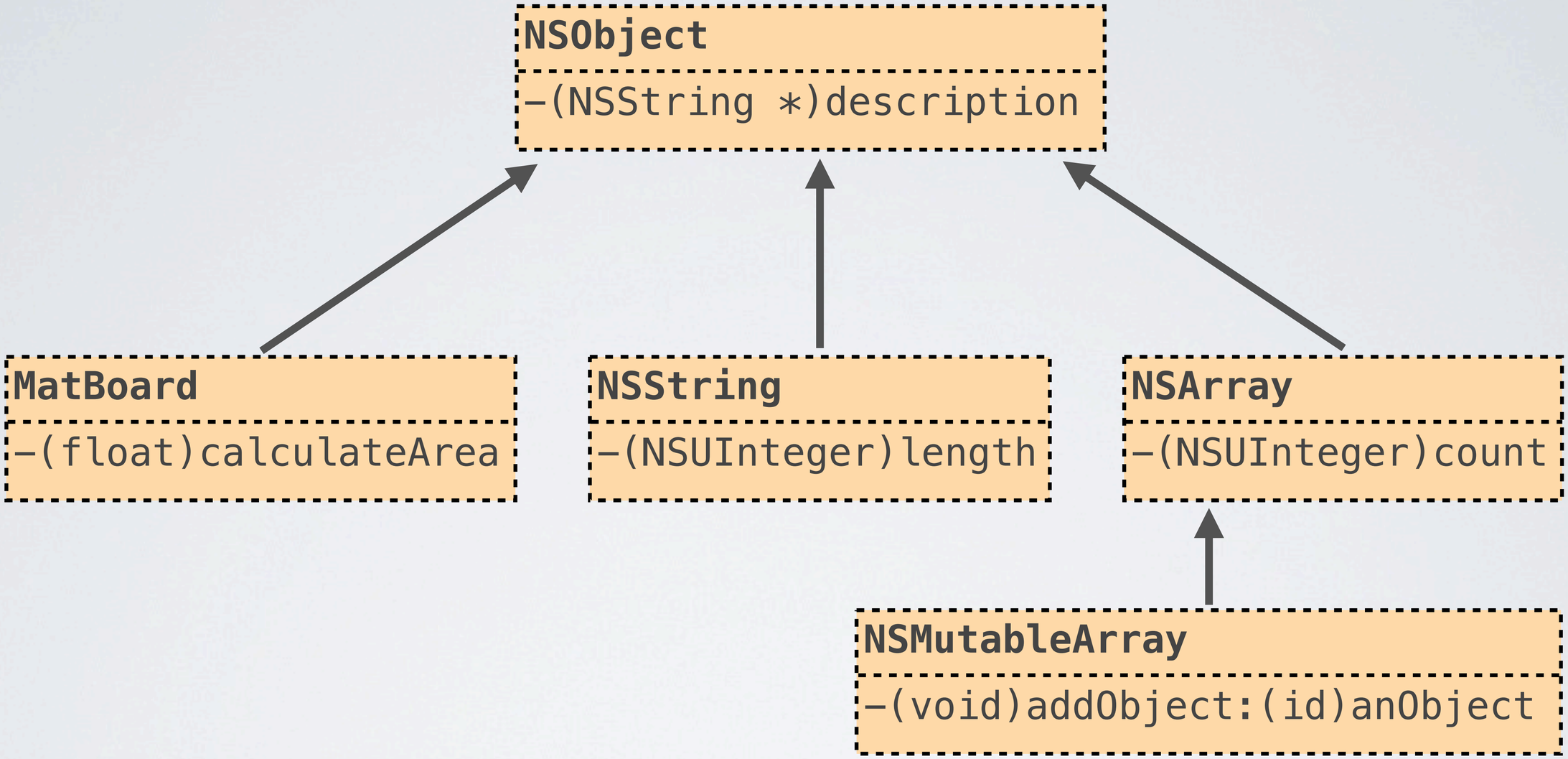
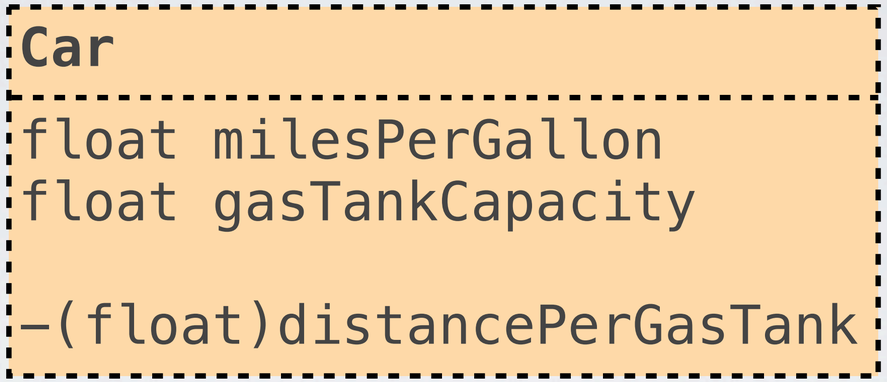
NSObject

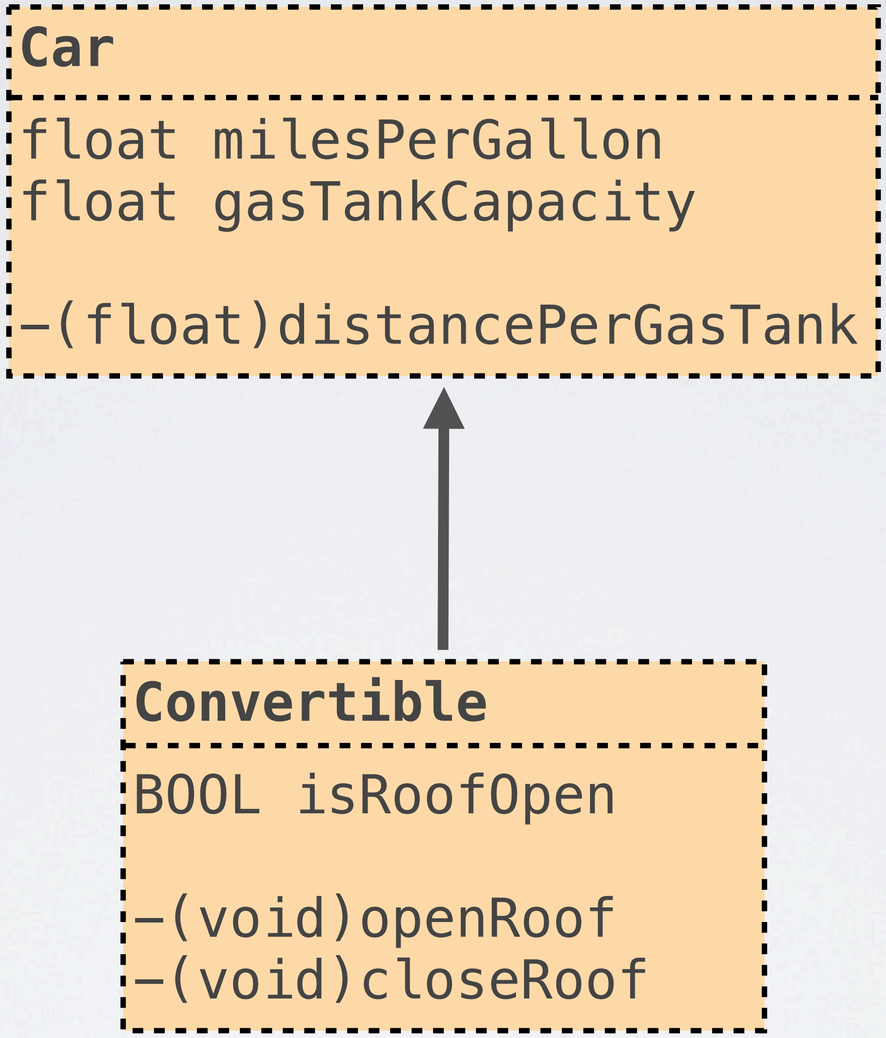
```
@interface MatBoard : NSObject {
    float _width;
    float _height;
}

@end
```

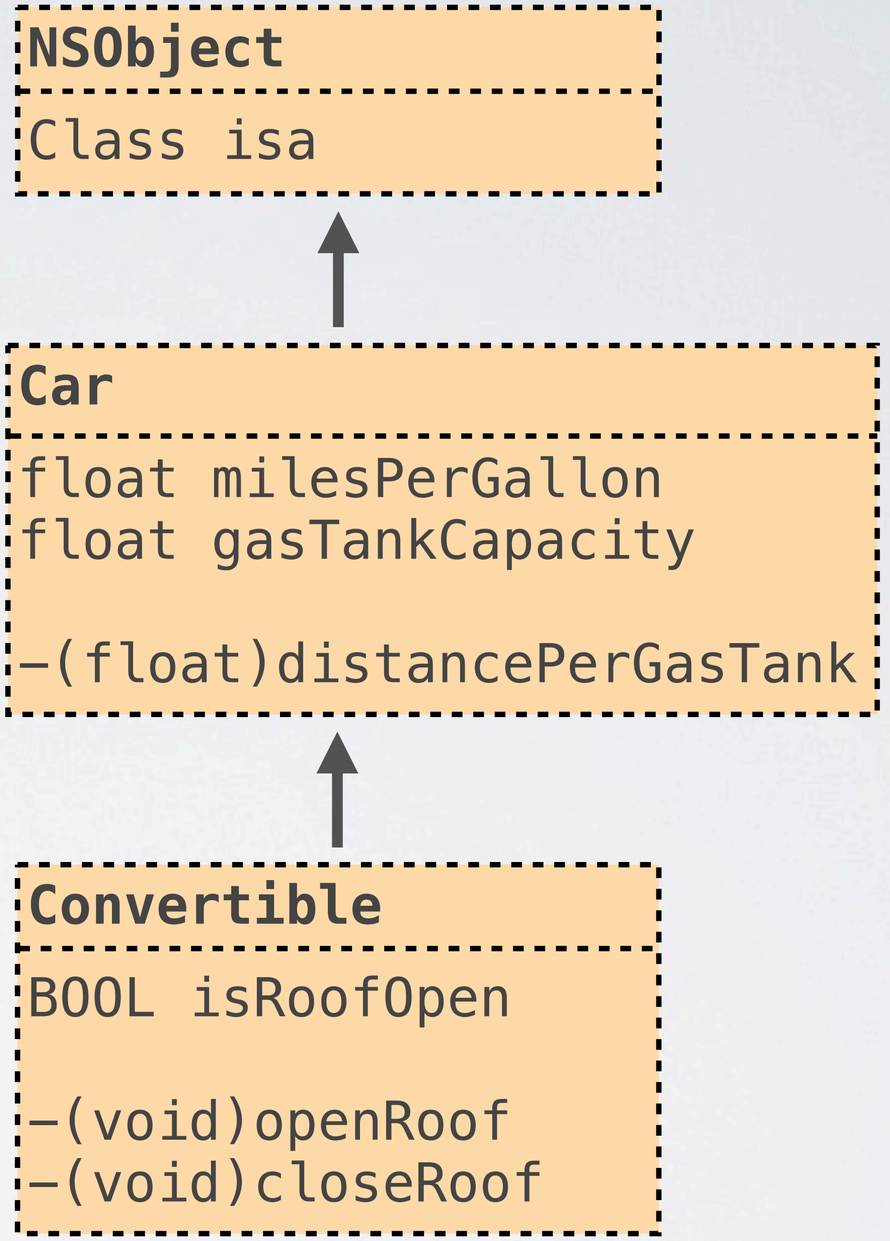
NSObject
-(NSString *)description

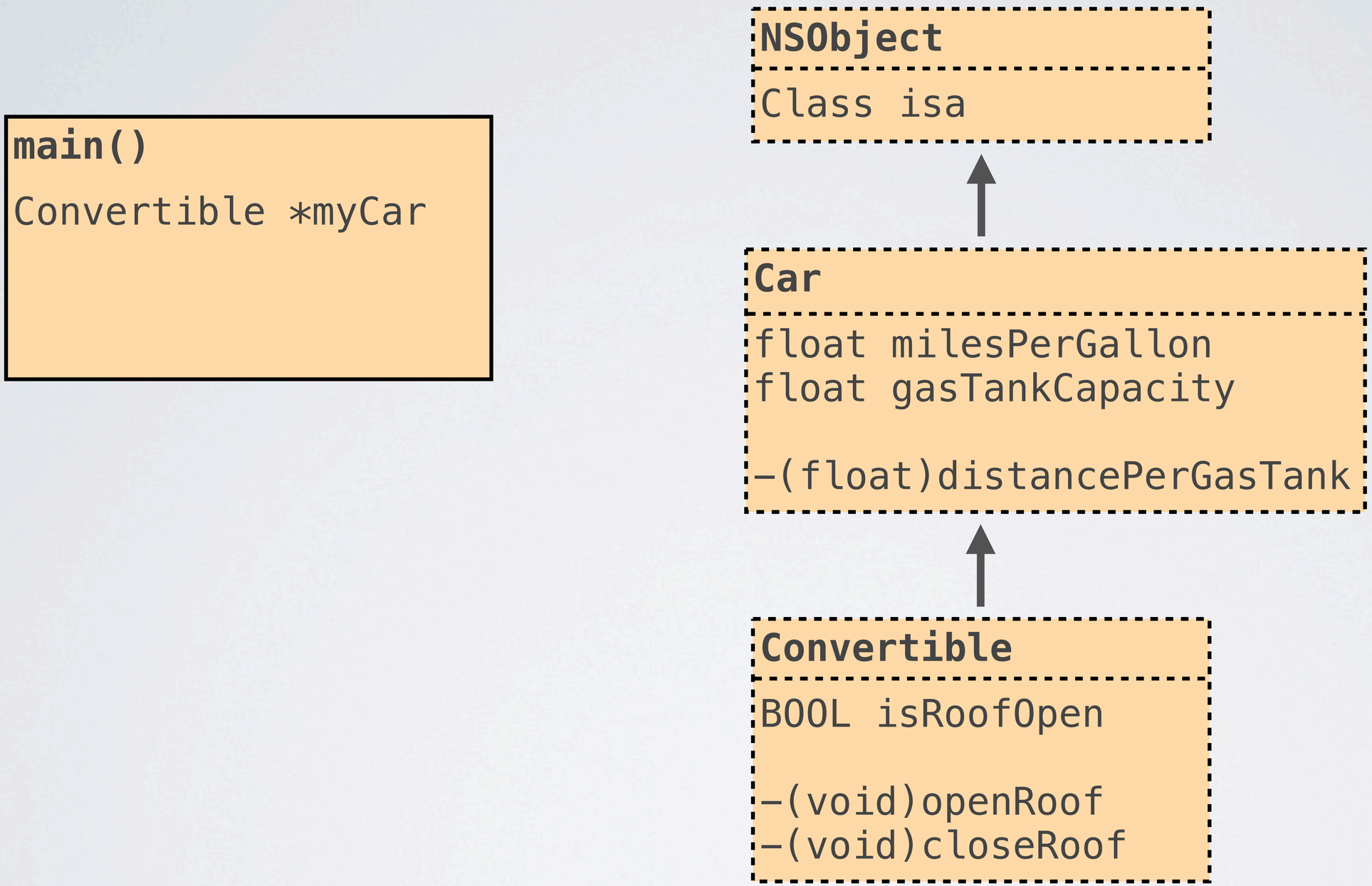

NSObject
-(NSString *)description
MatBoard
-(float)calculateArea
NSString
-(NSUInteger)length
NSArray
-(NSUInteger)count

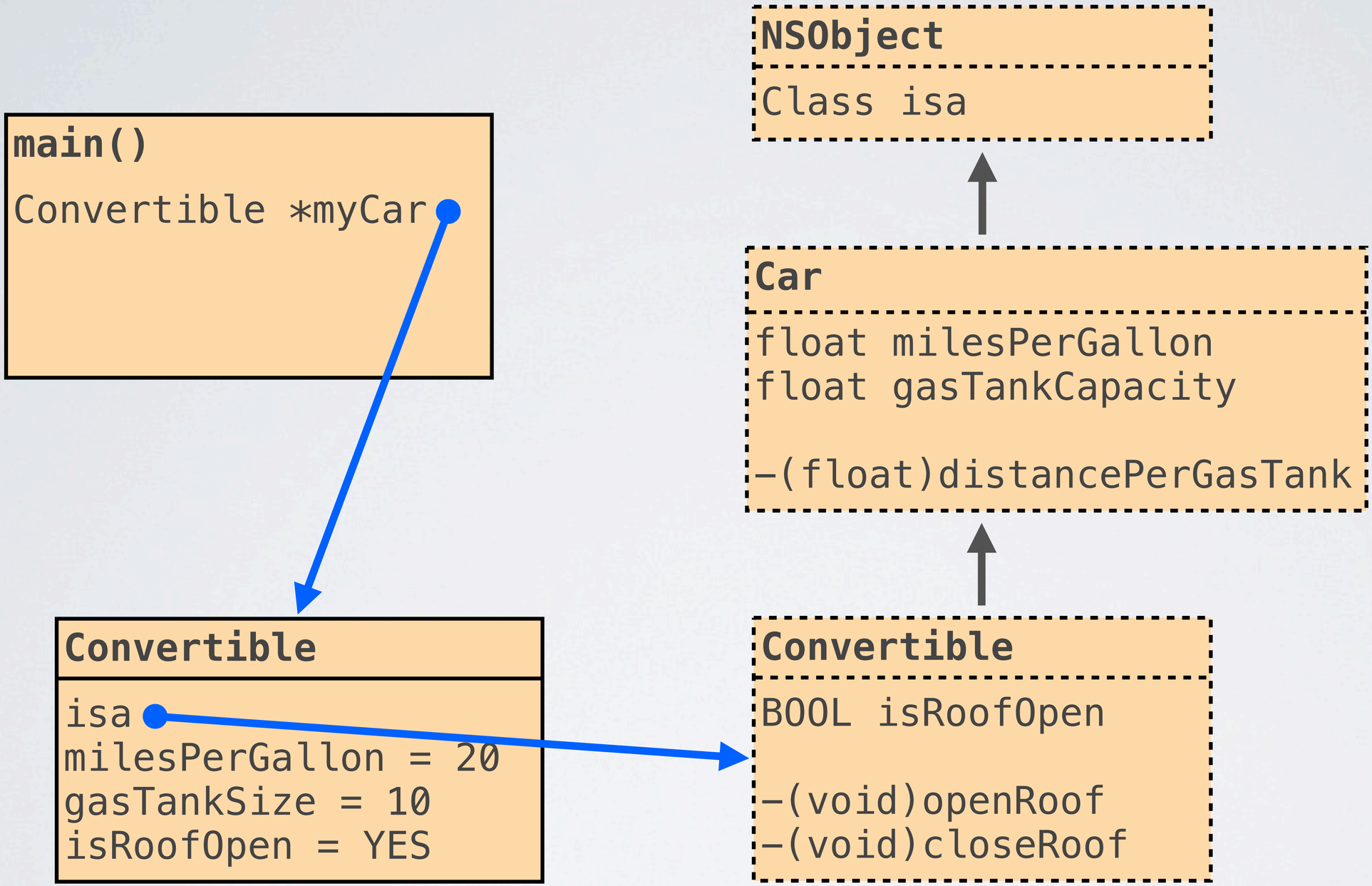

NSObject
-(NSString *)description
MatBoard
-(float)calculateArea
NSString
-(NSUInteger)length
NSArray
-(NSUInteger)count
NSMutableArray
-(void)addObject:(id)anObject


Car
float milesPerGallon
float gasTankCapacity
-(float)distancePerGasTank


Car
float milesPerGallon
float gasTankCapacity
-(float)distancePerGasTank
Convertible
BOOL isRoofOpen
-(void)openRoof
-(void)closeRoof


NSObject
Class isa
Car
float milesPerGallon
float gasTankCapacity
-(float)distancePerGasTank
Convertible
BOOL isRoofOpen
-(void)openRoof
-(void)closeRoof


main()
Convertible *myCar
NSObject
Class isa
Car
float milesPerGallon
float gasTankCapacity
-(float)distancePerGasTank
Convertible
BOOL isRoofOpen
-(void)openRoof
-(void)closeRoof


NSObject
Class isa
main()
Convertible *myCar
Car
float milesPerGallon
float gasTankCapacity
-(float)distancePerGasTank
Convertible
isa
milesPerGallon = 20
gasTankSize = 10
isRoofOpen = YES
Convertible
BOOL isRoofOpen
-(void)openRoof
-(void)closeRoof

Review

- NSObject
- Subclass
- Overriding Methods
- `super`

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