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Foundation

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Foundation



NSObject



NSObject

NSString

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NSMutableString



%@

description

NSObject

```
NSArray *tab = [NSArray arrayWithObjects:  
    @"un", @"deux", @"trois", nil];  
  
NSLog(@"il y a %d elements dans %@",  
    [tab count], tab);
```

- ```
NSArray *tab = [NSArray arrayWithObjects:
 @"ici", @"là", nil];
for (NSString *s in tab) {
 NSString *r = [@"Bonjour," stringByAppendingString:
 @" %@ il fait beau non ?", s];
 NSLog(@"%@", r);
}
```

- ```
NSString *a = @"1234";  
int v = [a intValue];  
NSLog(@"%d", v);
```

NSNumber

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```
NSNumber *n = [NSNumber numberWithInt:10];  
NSLog(@"%@ %d", n, [n intValue]);
```



NSData

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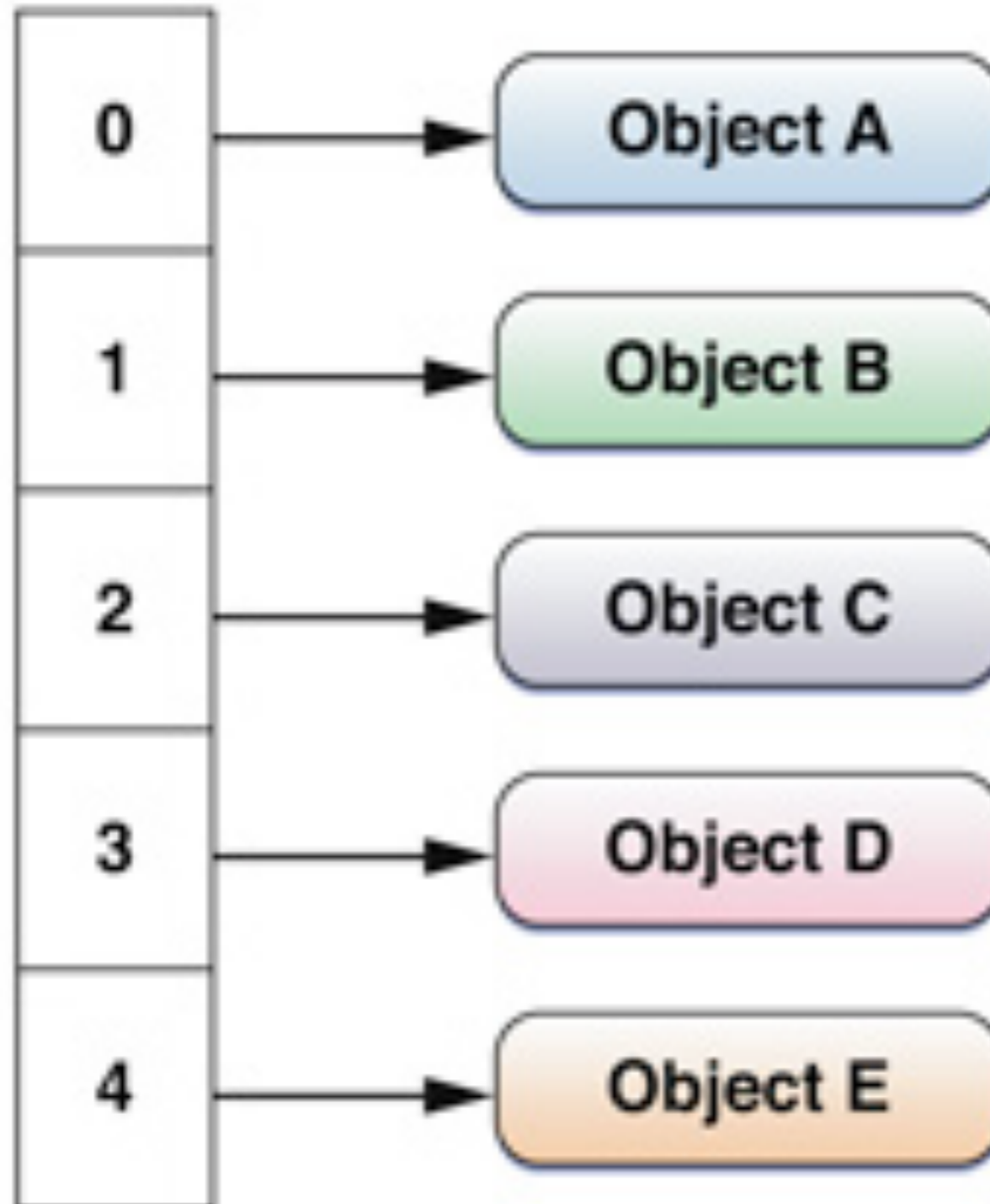
NSArray NSMutableArray

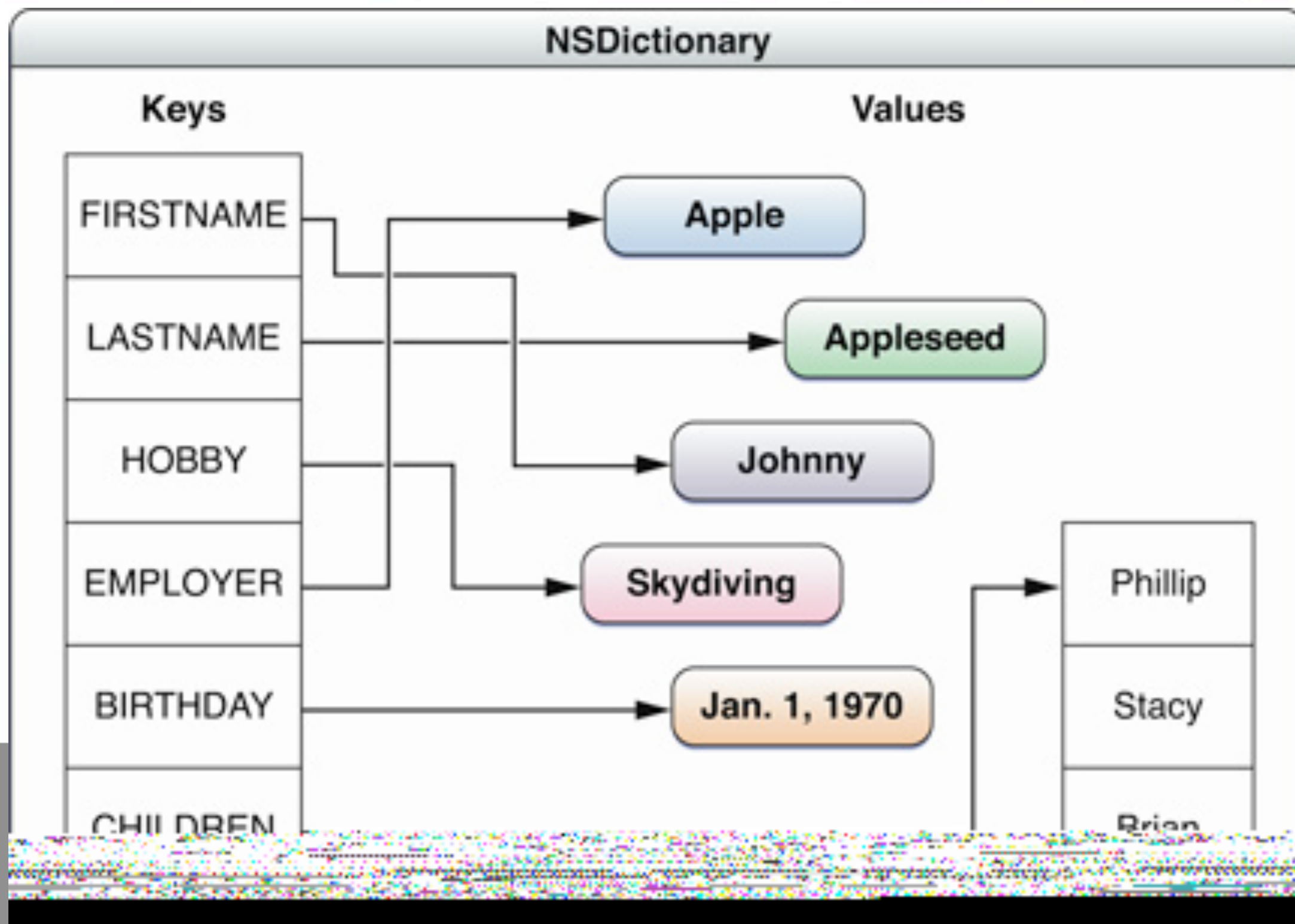
NSDictionary NSMutableDictionary

NSSet NSMutableSet NSCountedSet

NSIndexSet NSIndexPath

NSArray



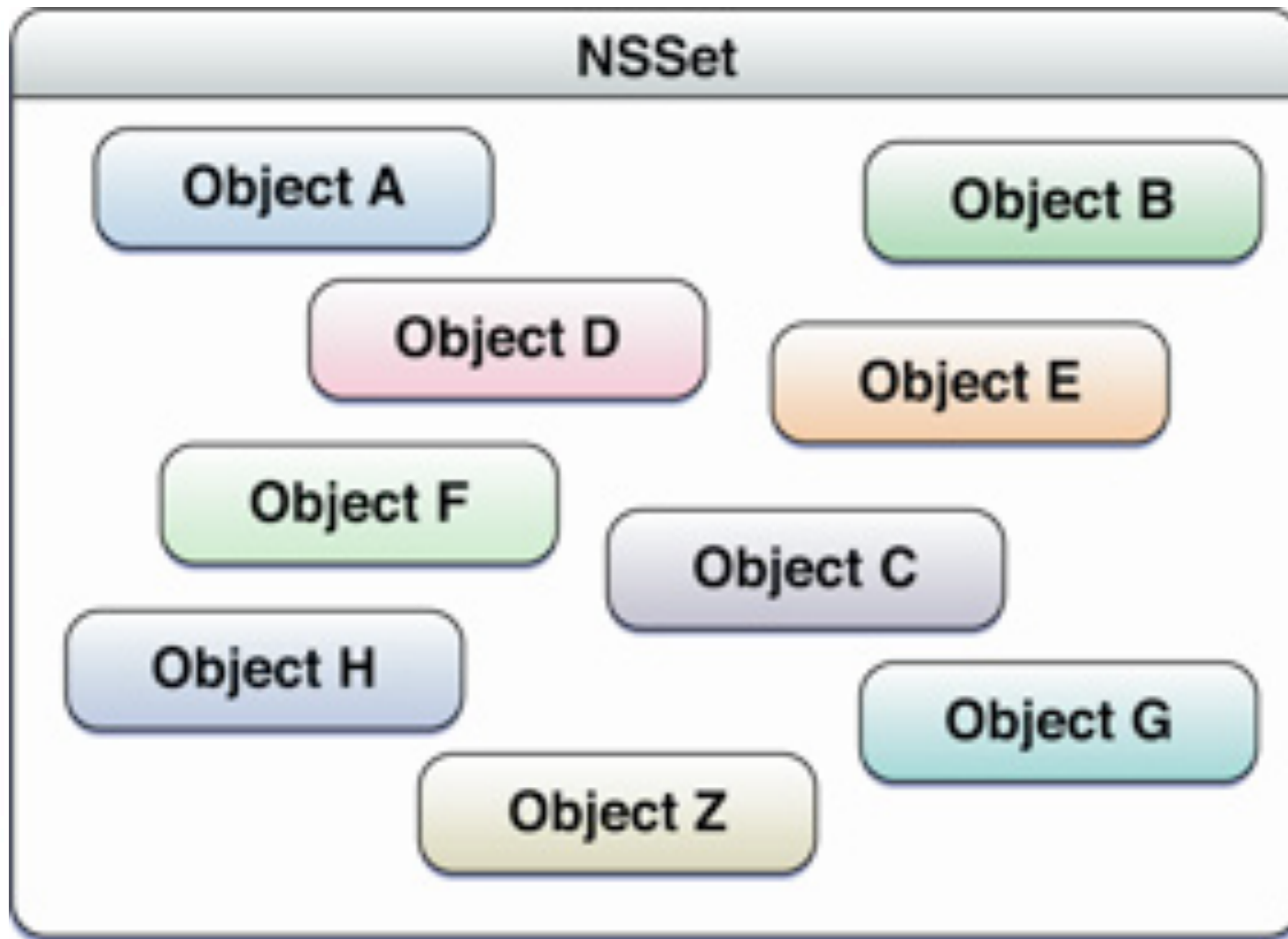


```
NSString *last      = @"lastName";
NSString *first     = @"firstName";
NSString *suffix    = @"suffix";
NSString *title     = @"title";

NSMutableDictionary *dict = [NSMutableDictionary
dictionaryWithObjectsAndKeys:
    @"Jo", first, @"Smith", last, nil];

NSDictionary *newDict = [NSDictionary
dictionaryWithObjectsAndKeys:
    @"Jones", last, @"Hon.", title, @"J.D.", suffix,
nil];

[dict addEntriesFromDictionary: newDict];
```



Les collections

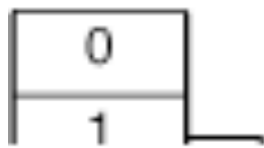
Array 1

Index Set {0, 2, 4}

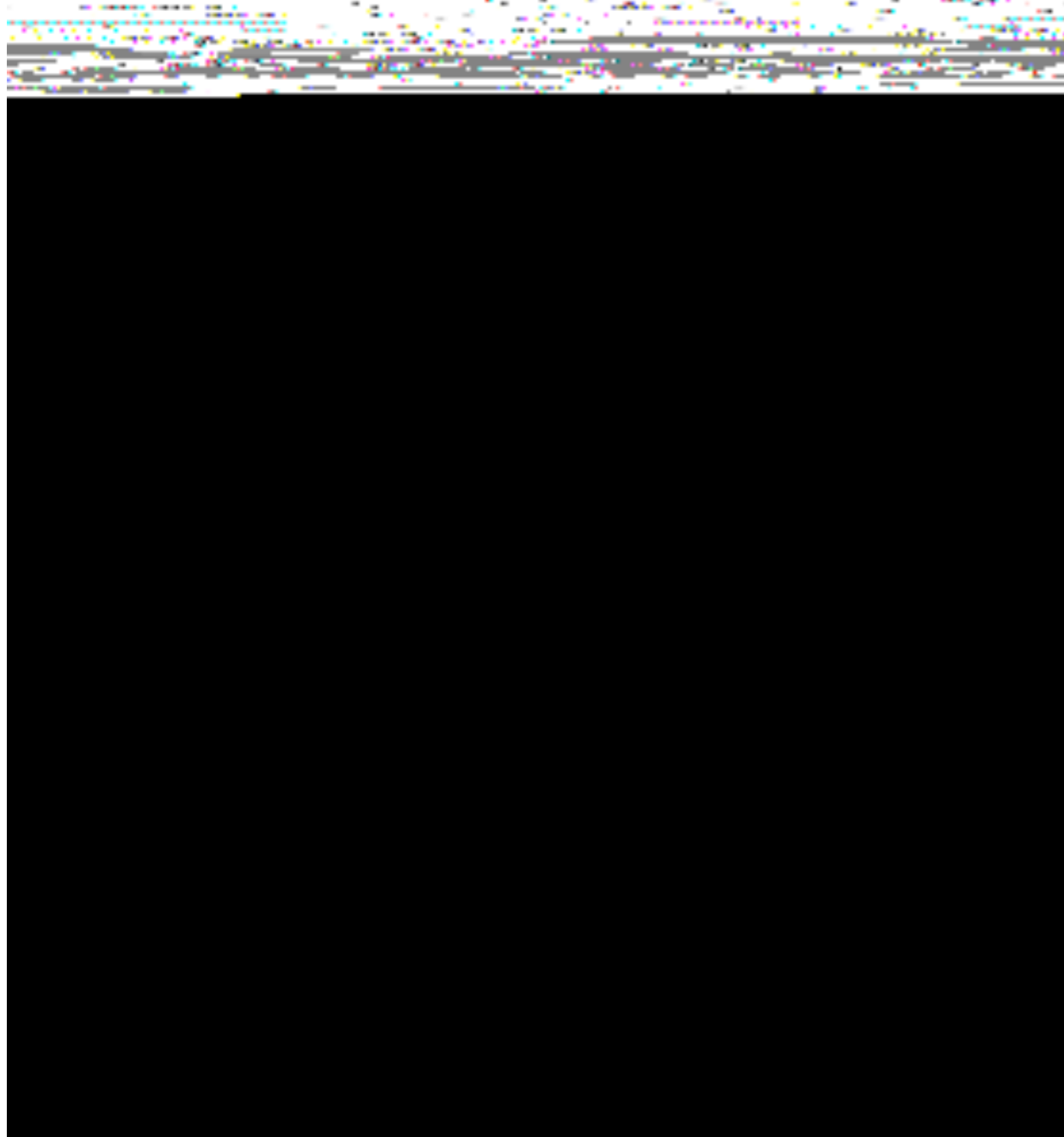
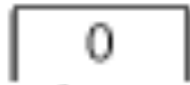


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Array 0



Array 1

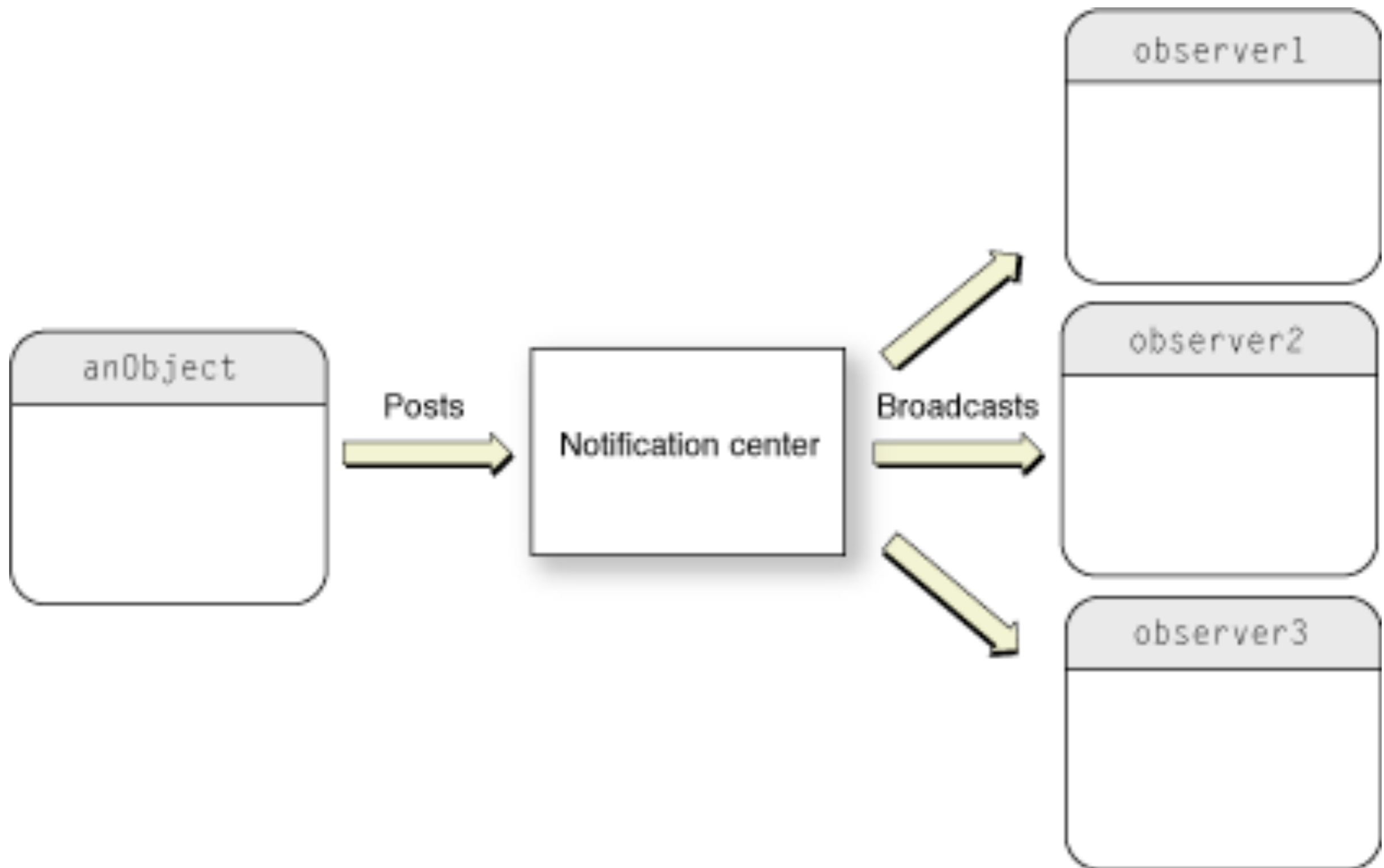


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NSNotificationCenter

NSDistributedNotificationCenter

- NSNotification



```
// UneClasse.h
#import <Foundation/Foundation.h>

@interface UneClasse : NSObject
- (id)somethingHappened:(NSNotification *)notification;
@end

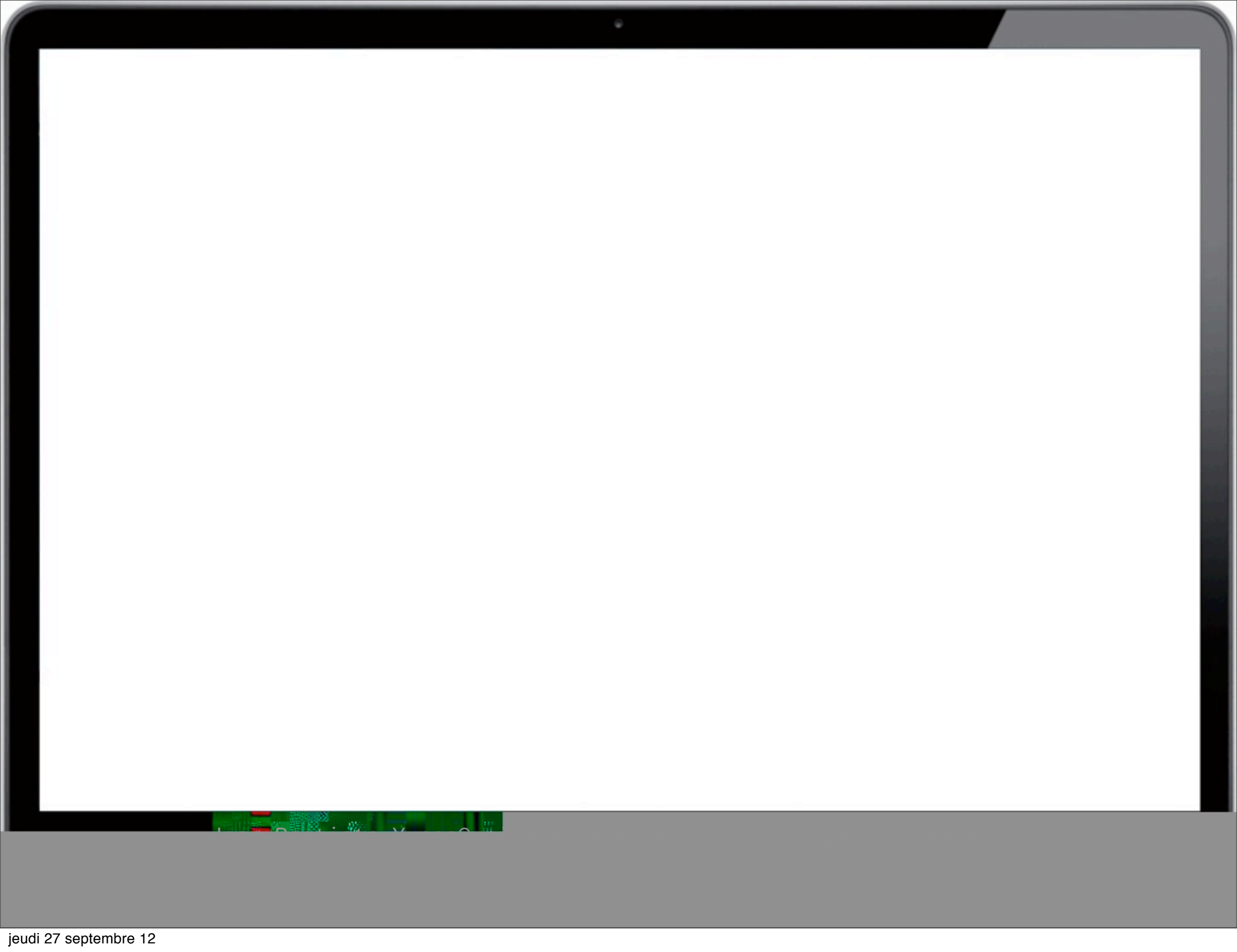
// UneClasse.m
#import "UneClasse.h"
@implementation UneClasse
- (id)somethingHappened:(NSNotification *)notification {
    NSLog(@"ok, received!");
}
@end

// Un objet receveur
UneClasse *obj = [[UneClasse alloc] init];

// on l'enregistre auprès du centre de notification choisi
[[NSNotificationCenter defaultCenter] addObserver:obj
    selector:@selector(somethingHappened:) name:@"bip" object:nil];

// On poste l'évènement (il sera reçu à un moment adéquat)
[[NSNotificationCenter defaultCenter] postNotificationName:@"bip" object:nil];

// On enlève le receveur du système de notification
[[NSNotificationCenter defaultCenter] removeObserver:obj];
```





- `NSKeyedArchiver`

`+(BOOL)archiveRootObject:(id)root toFile:
(NSString *)path`

- `NSKeyedUnarchiver`

`+(id)unarchiveObjectWithFile:(NSString *)path`

NSMutableDictionary
NSKeyedArchiver

NSMutableDictionary

- `-(id)initForWritingWithMutableData:(NSMutableDictionary *)data`
-
- `(void)encodeType:(id)objet forKey:(NSString *)key`
`encodeFloat encodeInt encodeObject`

NSCoding

–(id)initWithCoder:(NSCoder *)decoder

NSCoder

–(void)encodeWithCoder:(NSCoder *)coder

NSCoder

NSCoder

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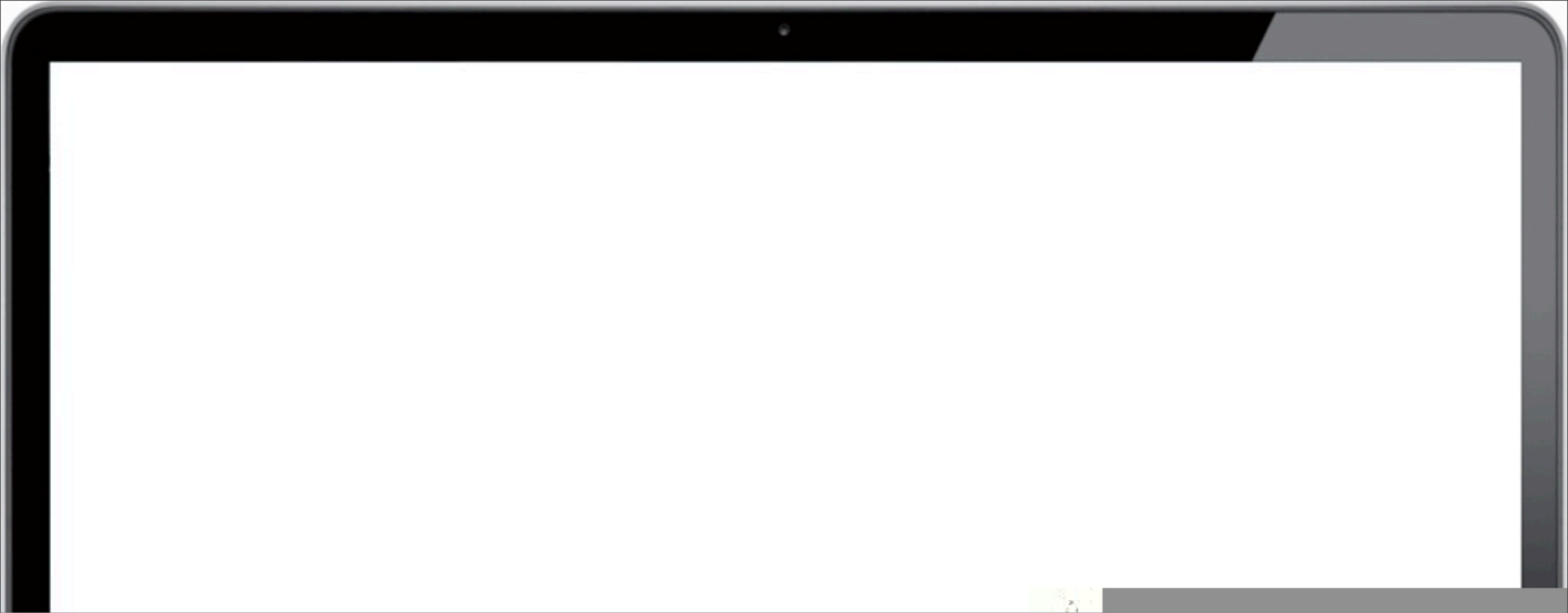
- `NSArgumentDomain`
- `NSGlobalDomain`
- `NSRegistrationDomain`

defaults

NSUserDefaults

-
-
-

`+(NSUserDefaults *) standardUserDefaults`





```
//  UneClasse.h
#import <Foundation/Foundation.h>
@interface UneClasse : NSObject
@property () int value;
@end

//  UneClasse.m
#import "UneClasse.h"
@implementation UneClasse
@synthesize value;
- (NSString *)description {
    return @"that's me!";
}
@end
```

```

// UnObserver.h
#import <Foundation/Foundation.h>
@interface UnObserver : NSObject
- (void)observeValueForKeyPath:(NSString *)keyPath
    ofObject:(id)object change:(NSDictionary *)change
    context:(void *)context;
@end

// UnObserver.m
#import "UnObserver.h"
@implementation UnObserver
- (void)observeValueForKeyPath:(NSString *)keyPath
    ofObject:(id)object change:(NSDictionary *)change
    context:(void *)context {
    NSLog(@"%@ for %@ changed",keyPath,object);
    NSLog(@"old value was %@",[change valueForKey:NSKeyValueChangeOldKey]);
    NSLog(@"new value is %@",[change valueForKey:NSKeyValueChangeNewKey]);
}
@end

```

```
UneClasse *obj = [[UneClasse alloc] init];  
UnObserver *obs = [[UnObserver alloc] init];
```

```
[obj addObserver:obs forKeyPath:@"value"  
    options: NSKeyValueObservingOptionNew+  
             NSKeyValueObservingOptionOld  
    context:nil];
```

```
obj.value = 3;
```

```
obj.value = 5;
```

```
[obj removeObserver:obs forKeyPath:@"value"];
```