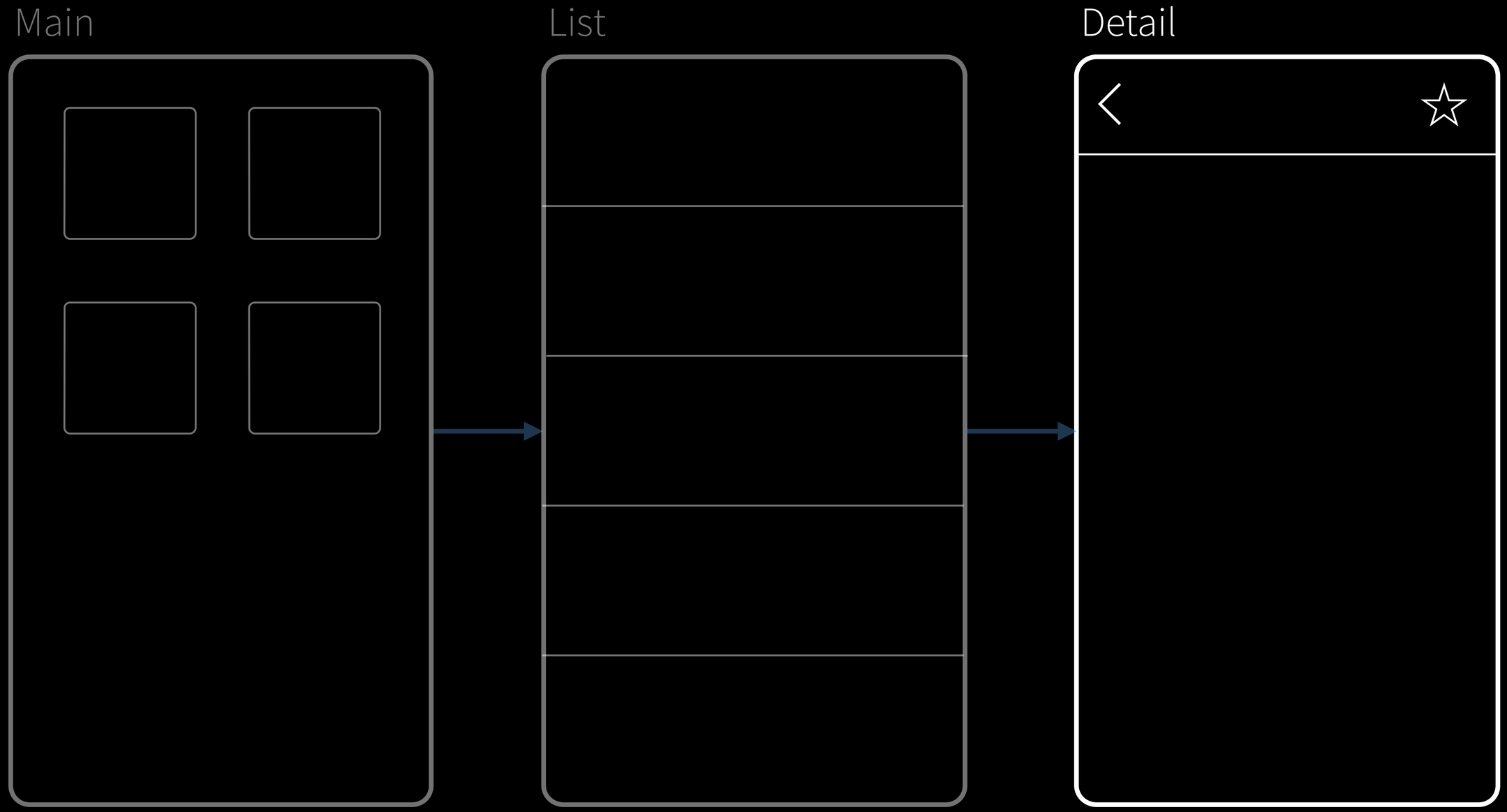
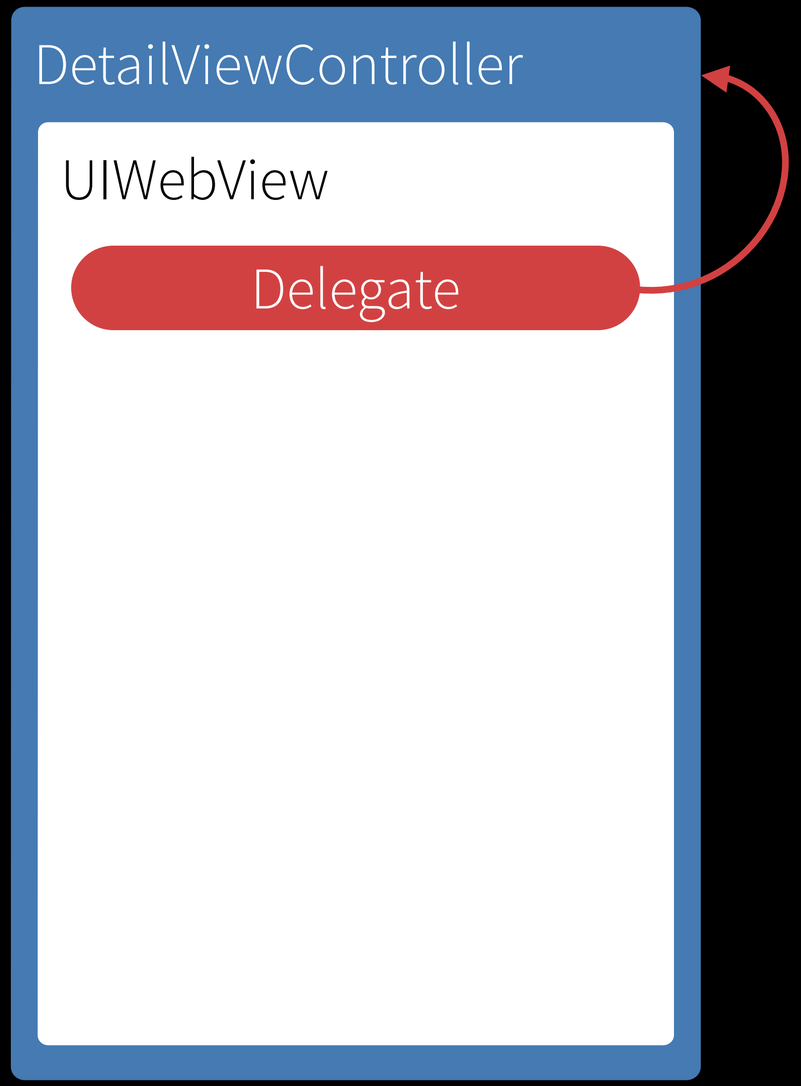
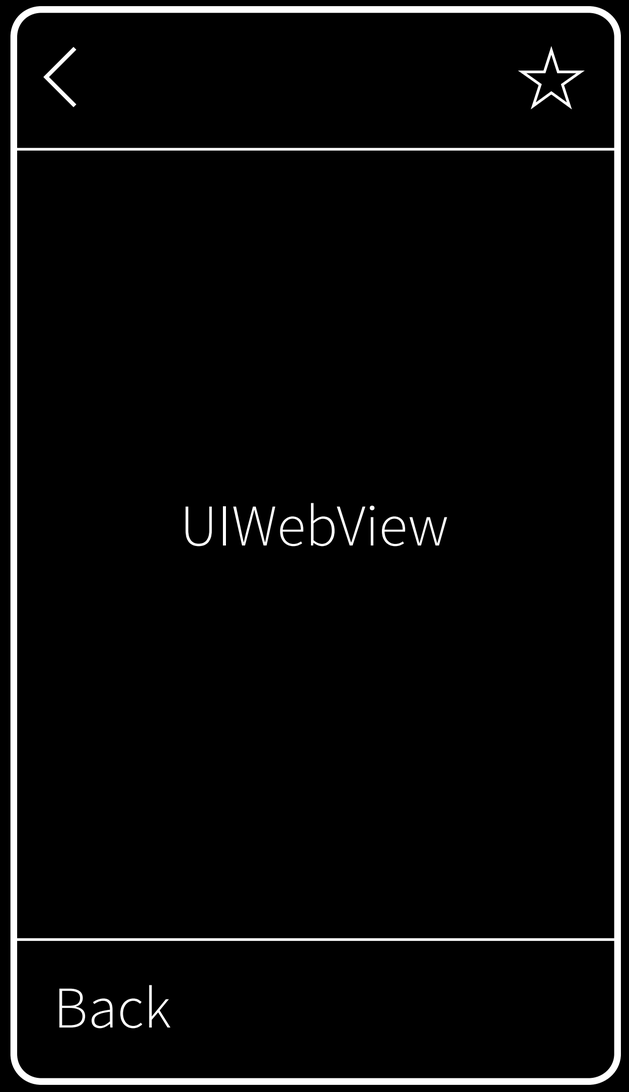

Main
List
Detail

UIWebView

DetailViewController
UIWebView


DetailViewController
UIWebView
Delegate

```
webView:shouldStartLoadWithRequest:navigationType:
webViewDidStartLoad:
webViewDidFinishLoad:
webView:didFailLoadWithError:
```


UIWebView
Back

Build It

Object Persistence

Core Data

NSKeyedArchiver

Core Data

Object modeling

Object relationships

Object validation

Schema migrations

Querying

Change tracking and undo

Powerful

Fast

Memory efficient

Mature, unit tested, and maintained by Apple

Write less code*

Powerful

Fast

Memory efficient

Mature, unit tested, and maintained by Apple

Write less code*

* Not in our case

Why not?

Complexity

	Core Data	NSKeyedArchiver
Persists Data	Yes	Yes
Pain in the Ass	Yes	No

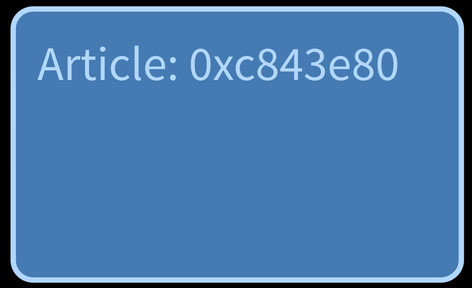
Source: nshipster.com

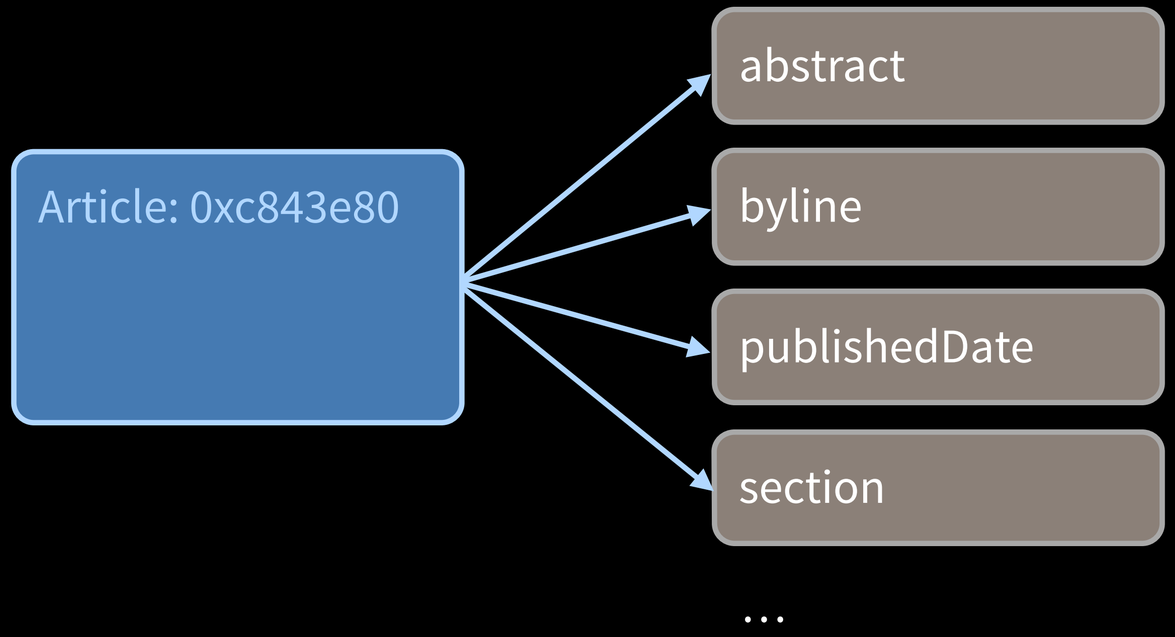
NSKeyedArchiver

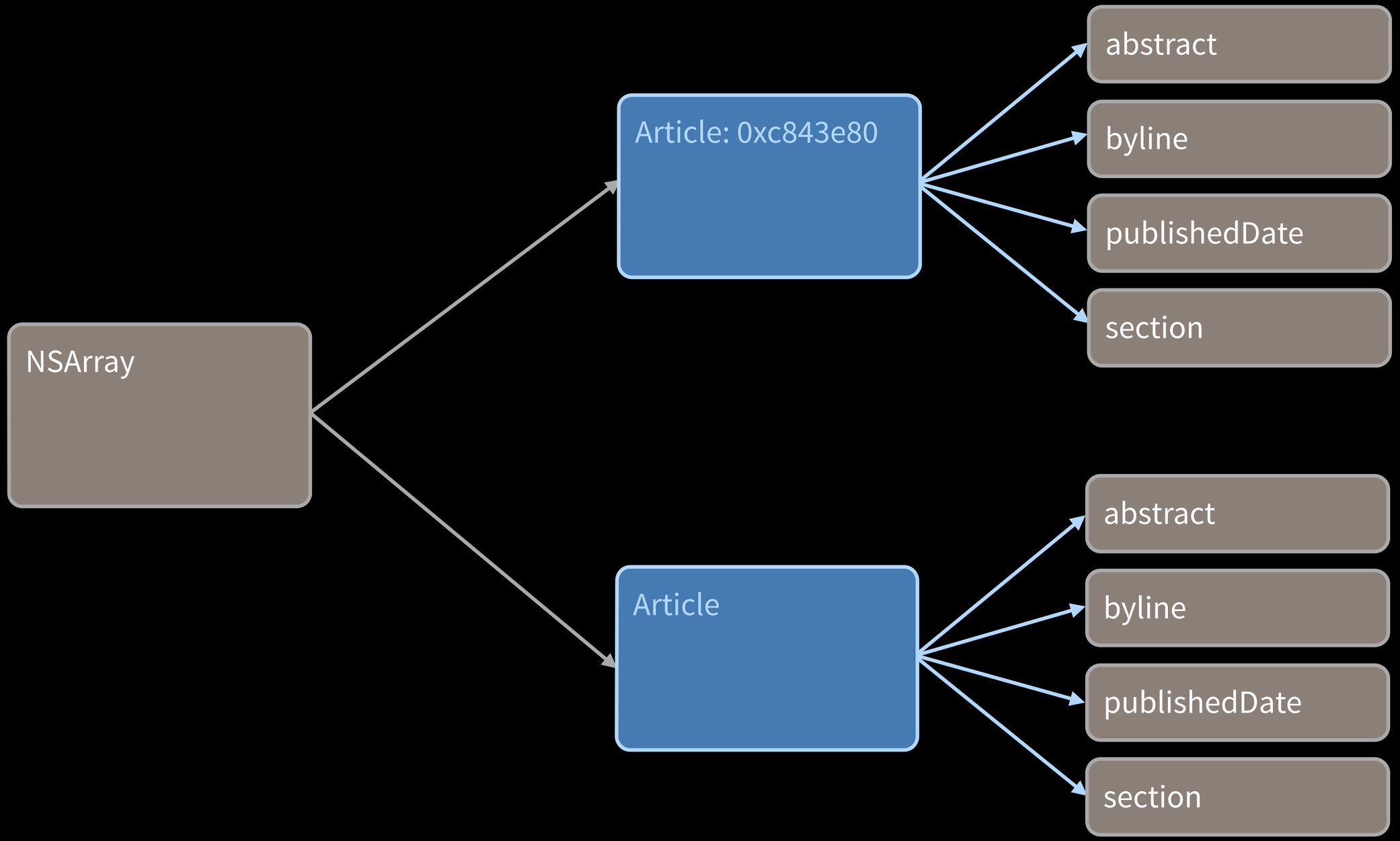
Article

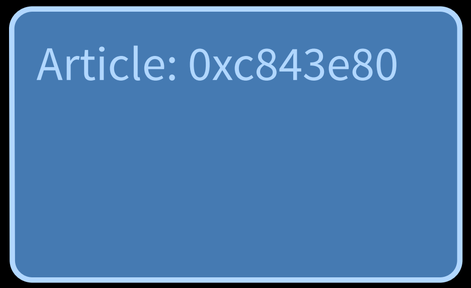
```
Article *article = [[Article alloc] init];
```

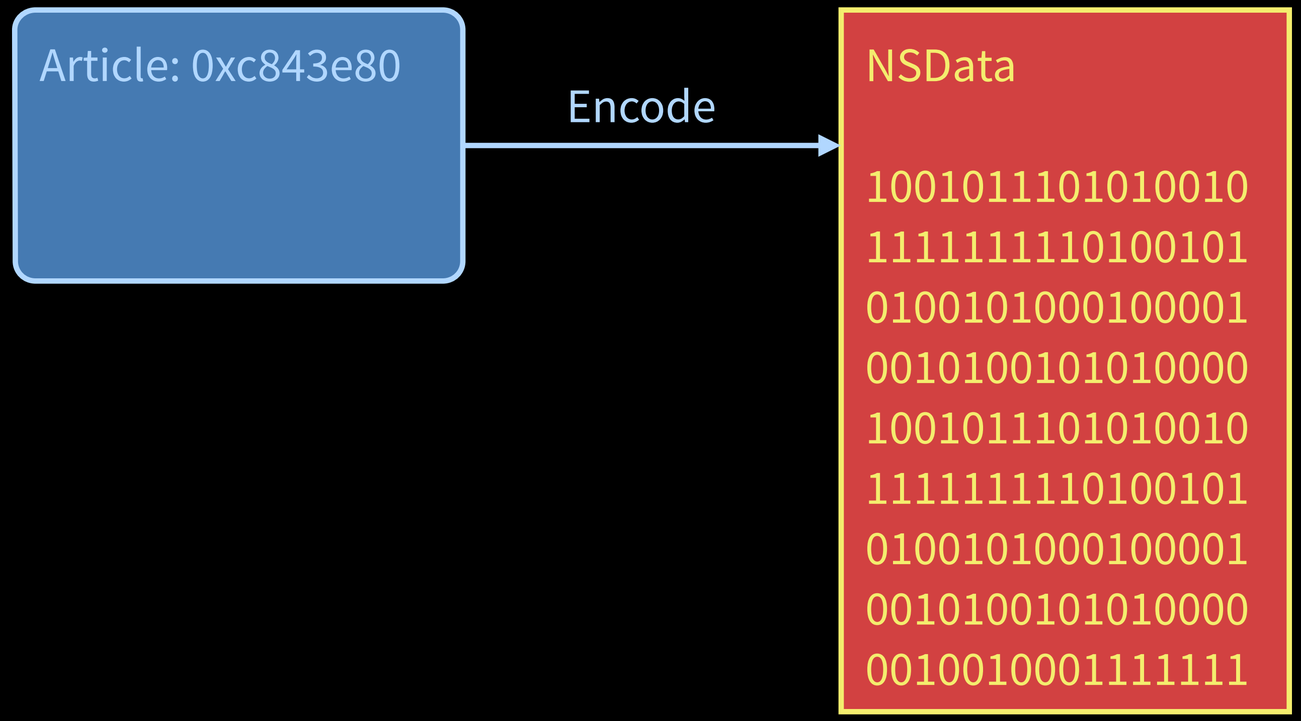
```
Article *article
```

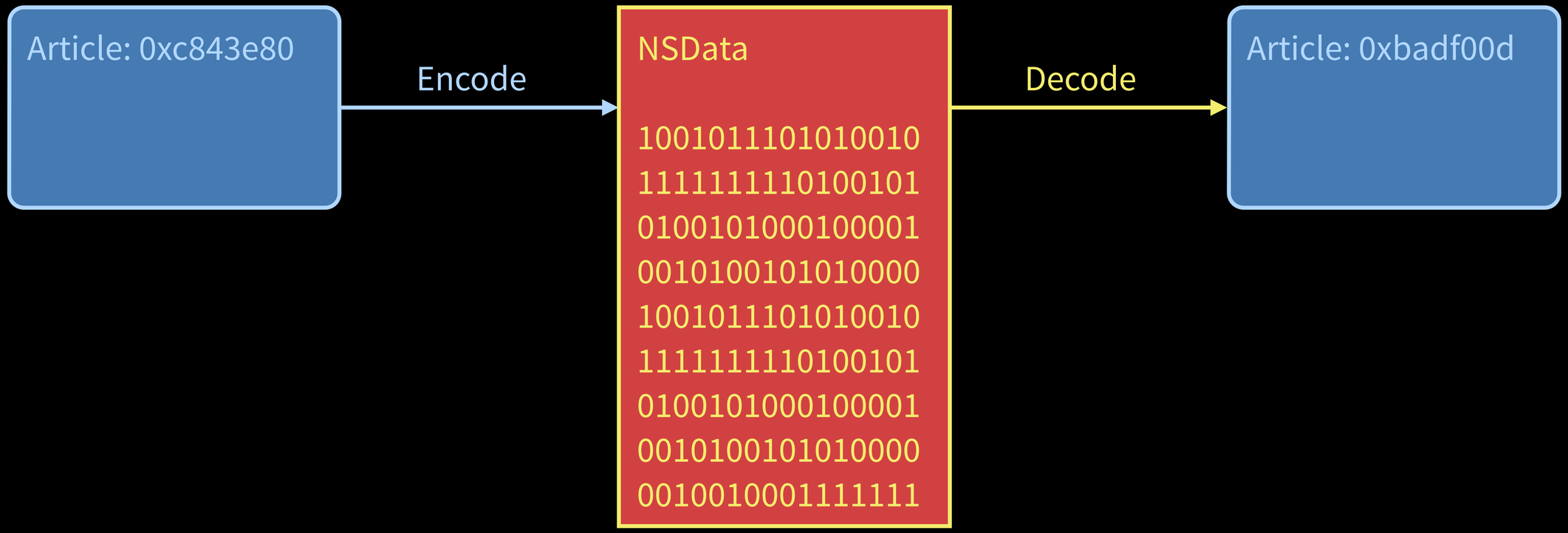

Article: 0xc843e80

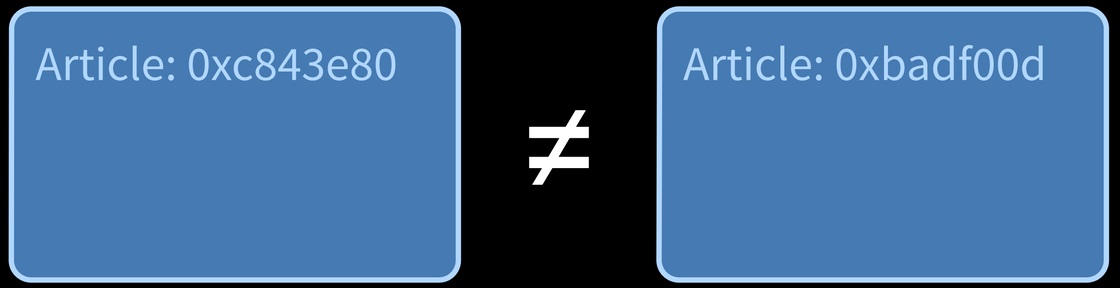

Article: 0xc843e80
abstract
byline
publishedDate
section
...


NSArray
Article: 0xc843e80
abstract
byline
publishedDate
section
Article
abstract
byline
publishedDate
section


Article: 0xc843e80


Article: 0xc843e80
Encode
NSData
1001011101010010
1111111110100101
0100101000100001
0010100101010000
1001011101010010
1111111110100101
0100101000100001
0010100101010000
0010010001111111


Article: 0xc843e80
Encode
NSData
1001011101010010
1111111110100101
0100101000100001
0010100101010000
1001011101010010
1111111110100101
0100101000100001
0010100101010000
0010010001111111
Decode
Article: 0xbadf00d


Article: 0xc843e80
≠
Article: 0xbadf00d

NSCoder & NSCoding

```
@interface Article <NSCoding>

// The usual interface junk goes here

@end
```

```objc
@implementation Article

#pragma mark - NSCoding

- (id)initWithCoder:(NSCoder *)decoder
{
    // Create a new instance with decoder values
}

- (void)encodeWithCoder:(NSCoder *)encoder
{
    // Save values into encoder
}

@end
```

NSKeyedArchiver

```
@implementation Article

#pragma mark - NSCoding

- (id)initWithCoder:(NSCoder *)decoder
{
    // Create a new instance with decoder values
}

- (void)encodeWithCoder:(NSCoder *)encoder
{
    // Save values into encoder
}

@end
```

```
- (void)encodeWithCoder:(NSCoder *)coder
{



}
```

```
- (void)encodeWithCoder:(NSCoder *)coder
{
    [coder encodeObject:self.abstract forKey:@"abstract"];



}
```

```
- (void)encodeWithCoder:(NSCoder *)coder
{
    [coder encodeObject:self.abstract forKey:@"abstract"];
    [coder encodeObject:self.byline forKey:@“byline”];
    // etc.

}
```

```objc
- (void)encodeWithCoder:(NSCoder *)coder
{
    [coder encodeObject:self.abstract forKey:@"abstract"];
    [coder encodeObject:self.byline forKey:@“byline”];
    // etc.
    [coder encodeBool:self.isFavorite forKey:@"isFavorite"];
}
```

```
- (id)initWithCoder:(NSCoder *)decoder
{
    self = [super init];

    if (self)
    {




    }

    return self;
}
```

```
- (id)initWithCoder:(NSCoder *)decoder
{
    self = [super init];

    if (self)
    {
        _abstract = [decoder decodeObjectForKey:@"abstract"];



    }

    return self;
}
```

```
- (id)initWithCoder:(NSCoder *)decoder
{
    self = [super init];

    if (self)
    {
        _abstract = [decoder decodeObjectForKey:@"abstract"];
        _byline = [decoder decodeObjectForKey:@"byline"];
        // etc.

    }

    return self;
}
```

```
- (id)initWithCoder:(NSCoder *)decoder
{
    self = [super init];

    if (self)
    {
        _abstract = [decoder decodeObjectForKey:@"abstract"];
        _byline = [decoder decodeObjectForKey:@"byline"];
        // etc.
        _isFavorite = [decoder decodeBoolForKey:@"isFavorite"];
    }

    return self;
}
```

Build It

What’s missing?

```
@interface ArticlesController : NSObject

- (void)addFavoriteArticle:(Article *)article;
- (void)removeFavoriteArticle:(Article *)article;
- (NSArray *)readFavoriteArticles;
- (void)writeFavoriteArticles;

@end
```

Lab 3.2

Next Week
Layout & Graphics