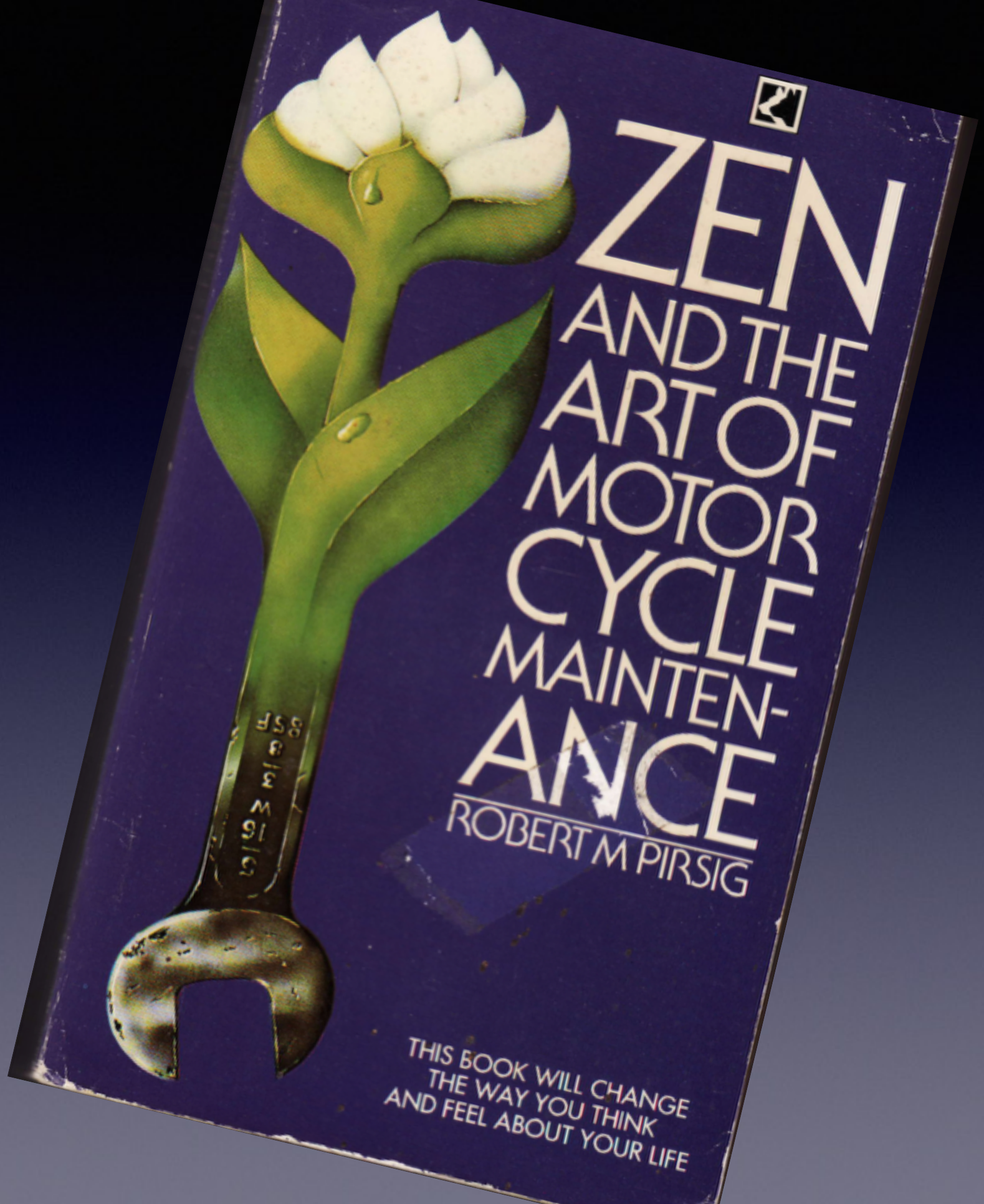
+


ZEN
AND THE
ART OF
MOTOR
CYCLE
MAINTEN-
ANCE
ROBERT M PIRSIG
THIS BOOK WILL CHANGE
THE WAY YOU THINK
AND FEEL ABOUT YOUR LIFE

```
var Philosophy =
"Love of Wisdom"
```

Meaning of life

Knowledge

Morality

Reality

Existence

Cosciousness

Economics

Politics

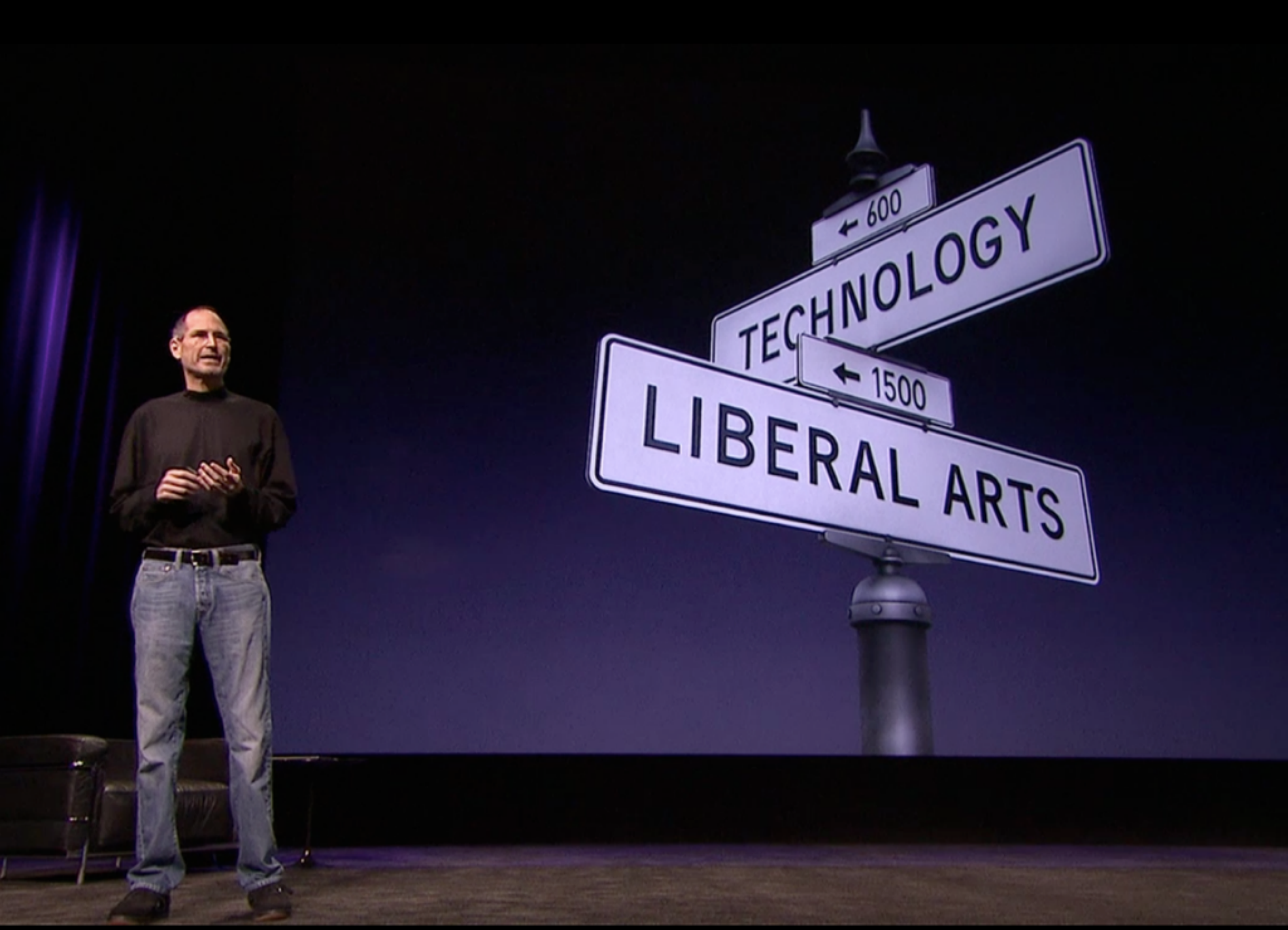
Linguistics

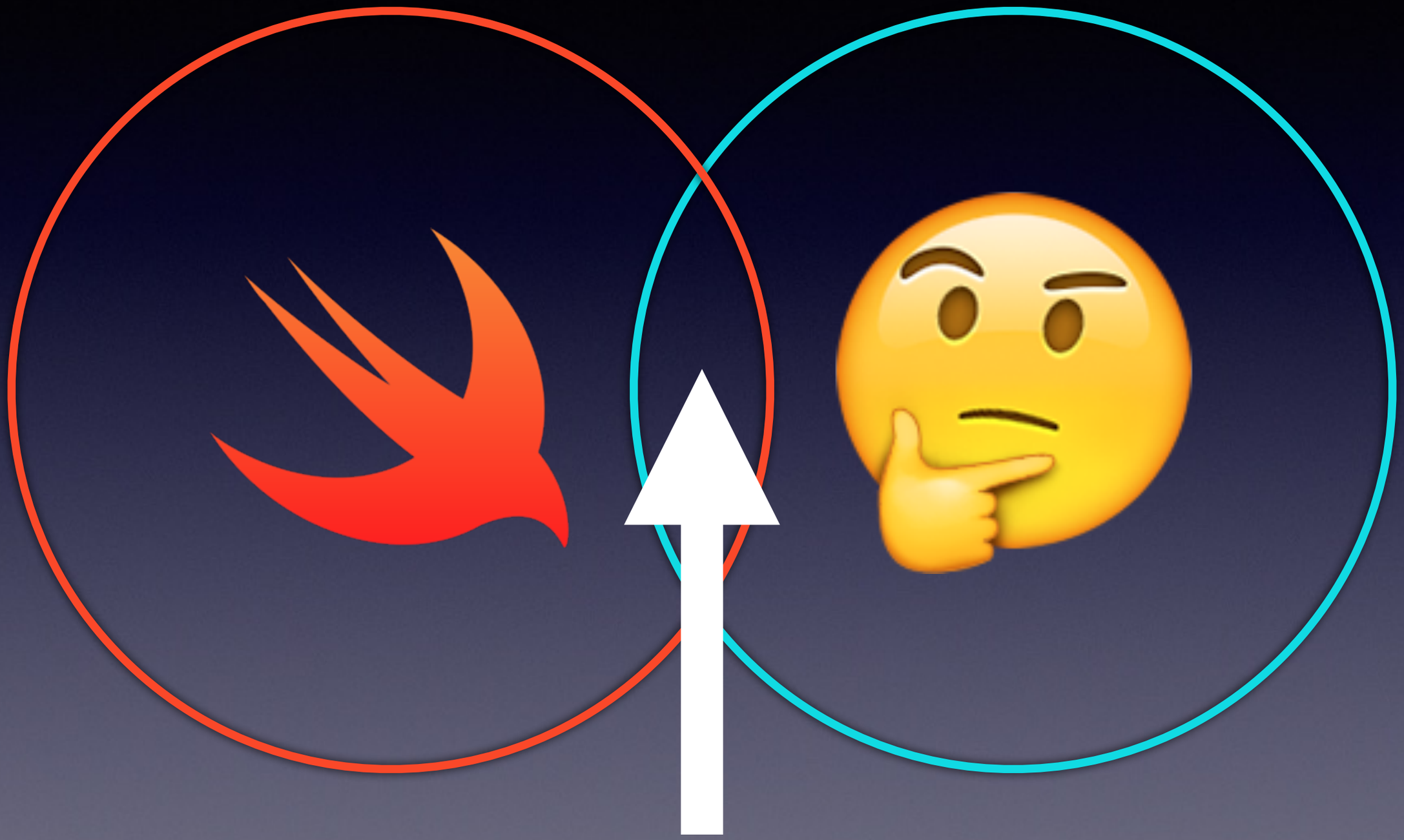
Exercise in thought

JARGON

PHILOSOPHERS

LOGIC


600
TECHNOLOGY
1500
LIBERAL ARTS



- Metaphysics
- Human Progress
- Uncertainty

Philosophy via Swift

Swift via Philosophy

CAT GIF IN THE END

Metaphysics

What is the world? What is it like?

Pre-socratic

AnyObject?

Thales = 💧

Anaximenes = ☁️

Heraclitus = 🔥

Plato’s Republic

Theory of Forms

PerceivableWorld != RealWorld

“Electrical signals interpreted by your brain.”

Forms are abstract representations of the types of things, and properties we experience

Superclass?

```
class Chair
```

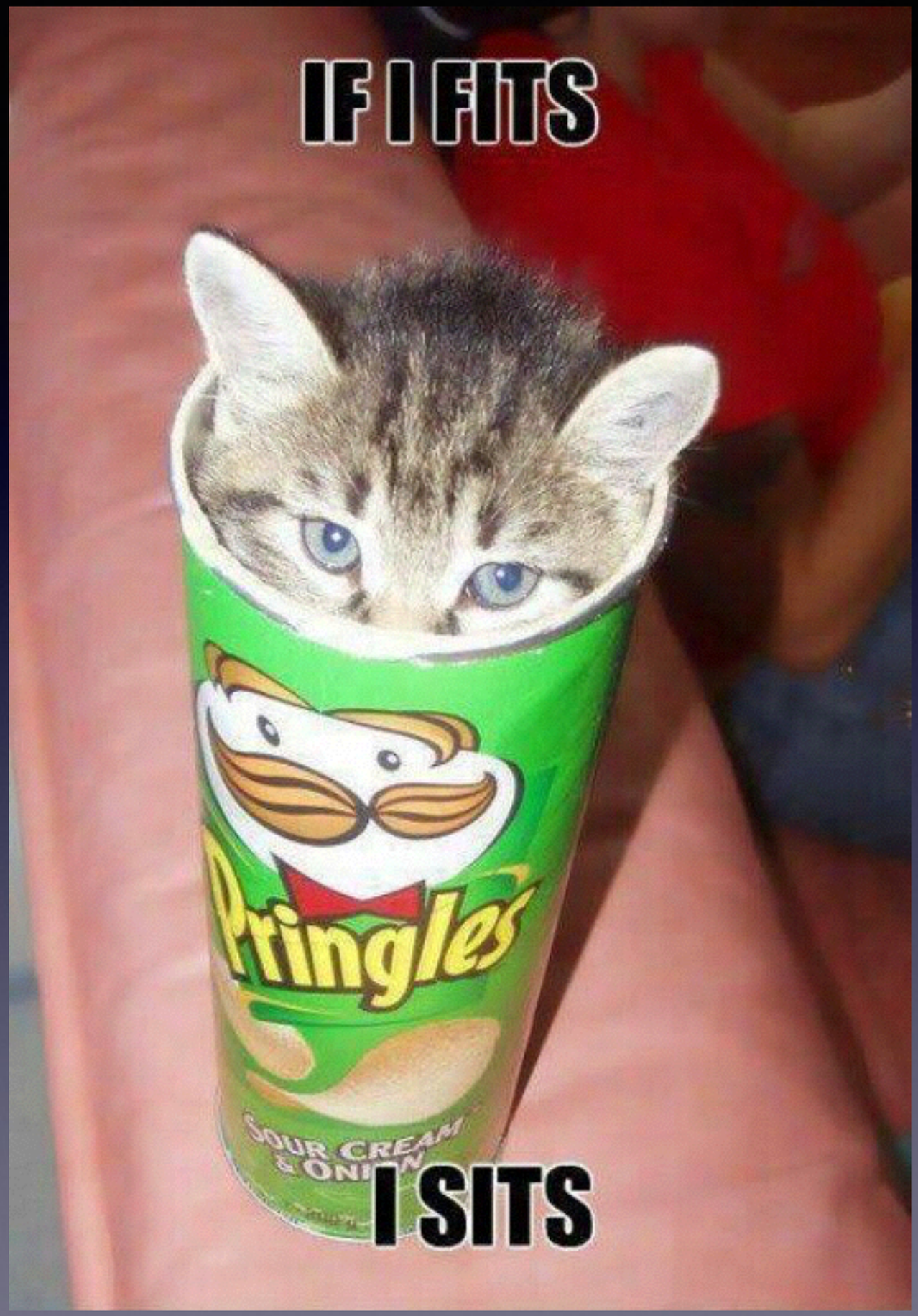
```
class HandChair: Chair
```

```
class SwivelChair: Chair {
    func swivel() {}
}
```

Deduction

```
a == x
b == x
a == b
```

Chair?


IF I FITS
Pringles
SOUR CREAM
I SITS

Protocols?

```
protocol Chair {
    func sit()
}

class swivelChair: NSObject, Chair {
    func sit() {
        print("sitting")
    }
}
```

Nature of objects

Question of identity

ΠΛΟΥΤΑΡΧΟΣ

“You can’t step in the same river twice”

Value and reference types

structs, enums or tuples are a unique copy of their data

```swift
struct Ship {
    let owner = "Theseus"
}

func compareShips() {
    var shipA = Ship()
    let shipB = shipA
    if shipA == shipB {
        print("Same ship")
    }
}
```

```
extension Ship: Equatable {}
func ==(lhs: Ship, rhs: Ship) -> Bool {

    return ❓

}
```

How does the universe implement equatable?

Aristotle's causes

Material
Form
Efficient
End

The Mind

JARGON

Transcendental idealism

Phenomena

reality interpreted by our minds

Noumena

exist regardless of our interpretation

We will never know what we can’t experience

Scope and private functions?

```
class Chair {

    func sit() {
        self.chairFunc()
    }

    private func chairFunc() {
        // Extreme chairiness
    }
}
```

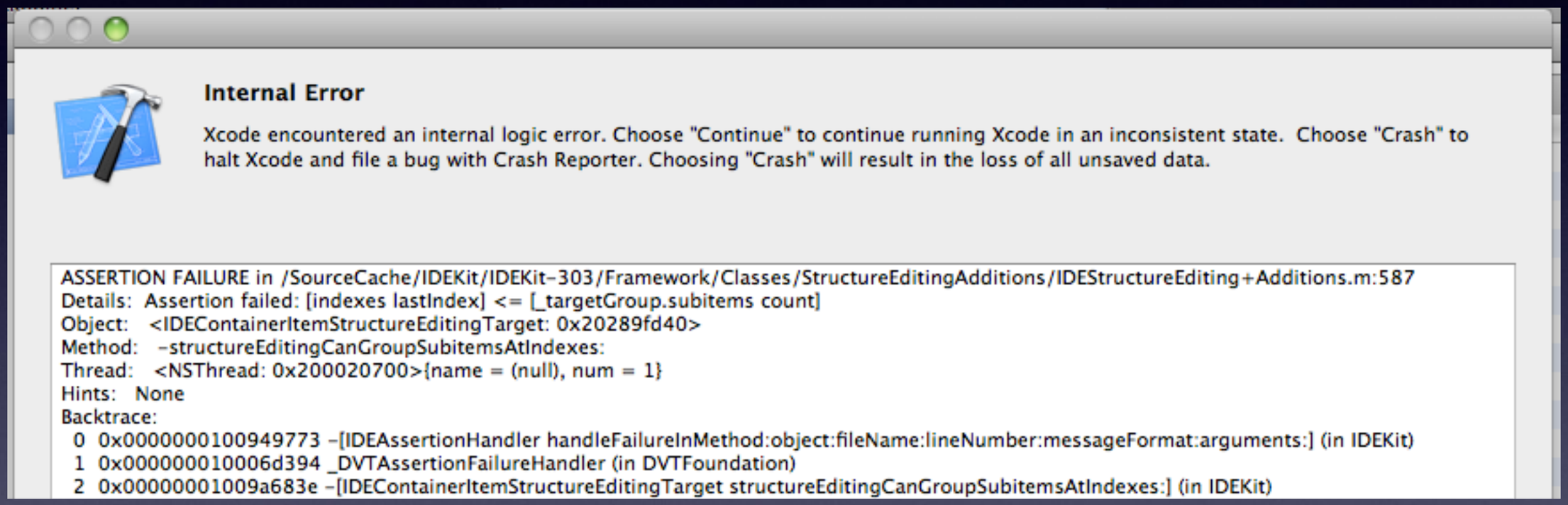
```
class SwivelChair: Chair {

    func swivel() {
        self.sit()
        self.chairFunc()
    }

}
```

Value of type 'Swivel

Universe behaves a lot like a compiler


Internal Error
Xcode encountered an internal logic error. Choose "Continue" to continue running Xcode in an inconsistent state. Choose "Crash" to halt Xcode and file a bug with Crash Reporter. Choosing "Crash" will result in the loss of all unsaved data.
ASSERTION FAILURE in /SourceCache/IDEKit/IDEKit-303/Framework/Classes/StructureEditingAdditions/IDEStructureEditing+Additions.m:587
Details: Assertion failed: [indexes lastIndex] <= [_targetGroup.subitems count]
Object: <IDEContainerItemStructureEditingTarget: 0x20289fd40>
Method: -structureEditingCanGroupSubitemsAtIndexes:
Thread: <NSThread: 0x200020700>{name = (null), num = 1}
Hints: None
Backtrace:
0 0x0000000100949773 -[IDEAssertionHandler handleFailureInMethod:object:fileName:lineNumber:messageFormat:arguments:] (in IDEKit)
1 0x000000010006d394 _DVTAssertionFailureHandler (in DVTFoundation)
2 0x00000001009a683e -[IDEContainerItemStructureEditingTarget structureEditingCanGroupSubitemsAtIndexes:] (in IDEKit)

“Cogito ergo sum”

```
class Thought: Exist {

    init(existingObject: Exist) {
        // Think something
    }

}
```

Cartesian Dualism

Body = physical

mind = non-physical

Humanity is the bridging header

Zenly 〉 Supporting Files 〉 Zenly-Bridging-Header.h 〉 No Selection

```
//
//  Use this file to import your target's public headers that you would like to expose to Swif
//

#import "ZLYAppDelegate.h"

#import "ZENBackend.h"
#import "ZENAsserts.h"
#import "ZENCollection.h"
#import "ZENDataBase.h"
#import "ZENEngine.h"
#import "ZENInvitation.h"
#import "ZENLog.h"
#import "ZENUser.h"
#import "ZENDatabase+ZENCollection.h"
#import "ZENReverseGeocodeService.h"

#import "ZLYConstants.h"

#import "ZLYAsyncButton.h"
#import "ZLYAvatarChange.h"
#import "ZLYCardUserTopView.h"
#import "ZLYCardUserContentView.h"
#import "ZLYCardViewCellController.h"
#import "ZENContactController.h"
#import "ZLYDisplayContact.h"
#import "ZLYDisplayFriendRequest.h"
#import "ZLYExtendedMessageComposeViewController.h"
#import "ZLYLoadingView.h"
#import "ZLYMapDisplayManager.h"
#import "ZLYMainNavigationController.h"
#import "ZLYForegroundPollingTimer.h"
#import "ZLYContactPickerController.h"
#import "ZLYContactPhoneNumberValidationController.h"
#import "ZLYExtendedButton.h"
#import "ZLYLargePinkButton.h"
```

2

Human Progress

vs

ObjC

Everything is connected

Zeitgeist

Dialectic

Perceived reality is what society agrees on

as flaws are revealed society evolves

thesis

antithesis

synthesis

2014

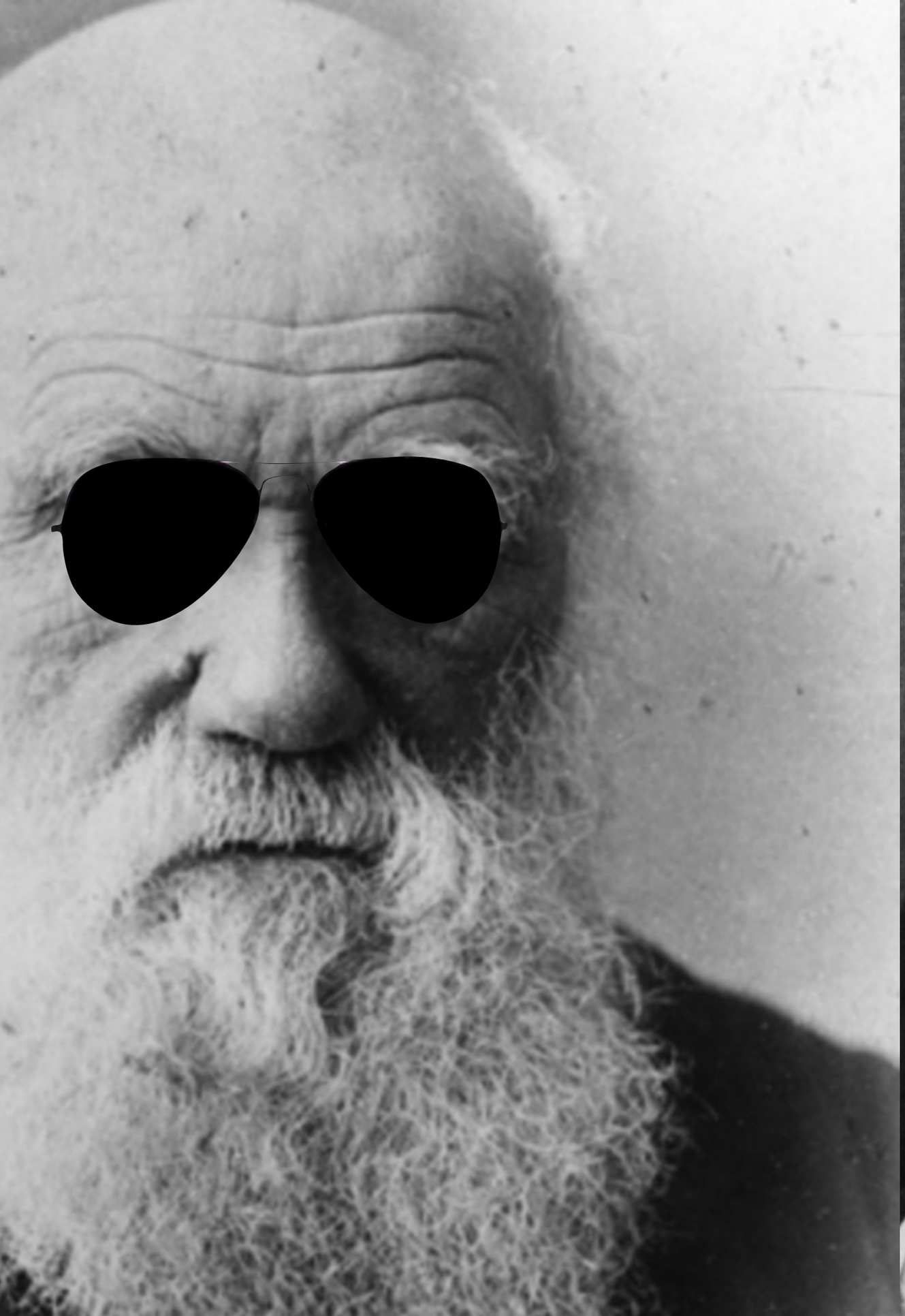
"ObjC is the best language ever"

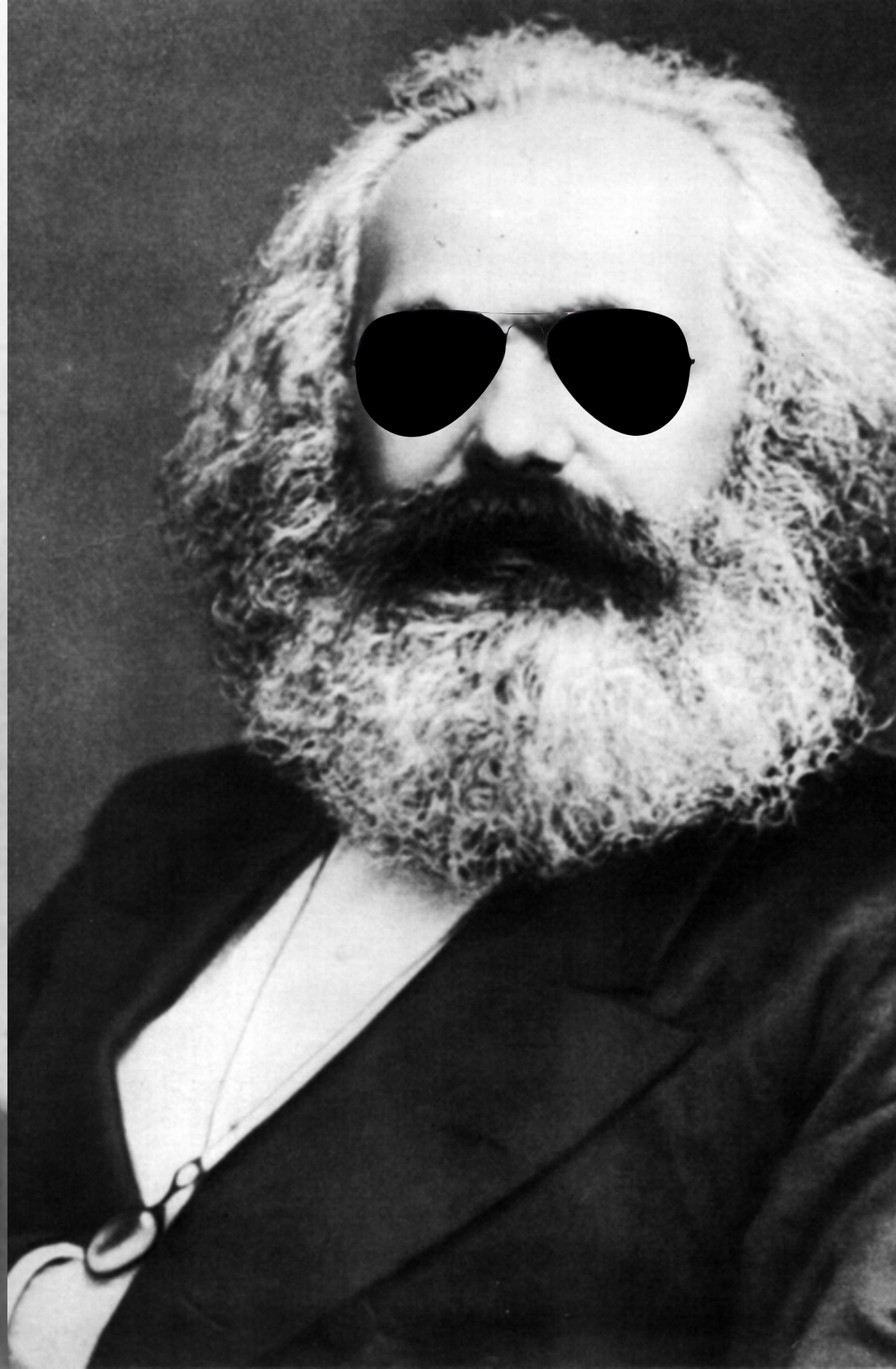
2016

ObjC is old and ugly and Swift is the best thing ever

2050

Remember when we used Swift?





Evolution or revolution?

New language

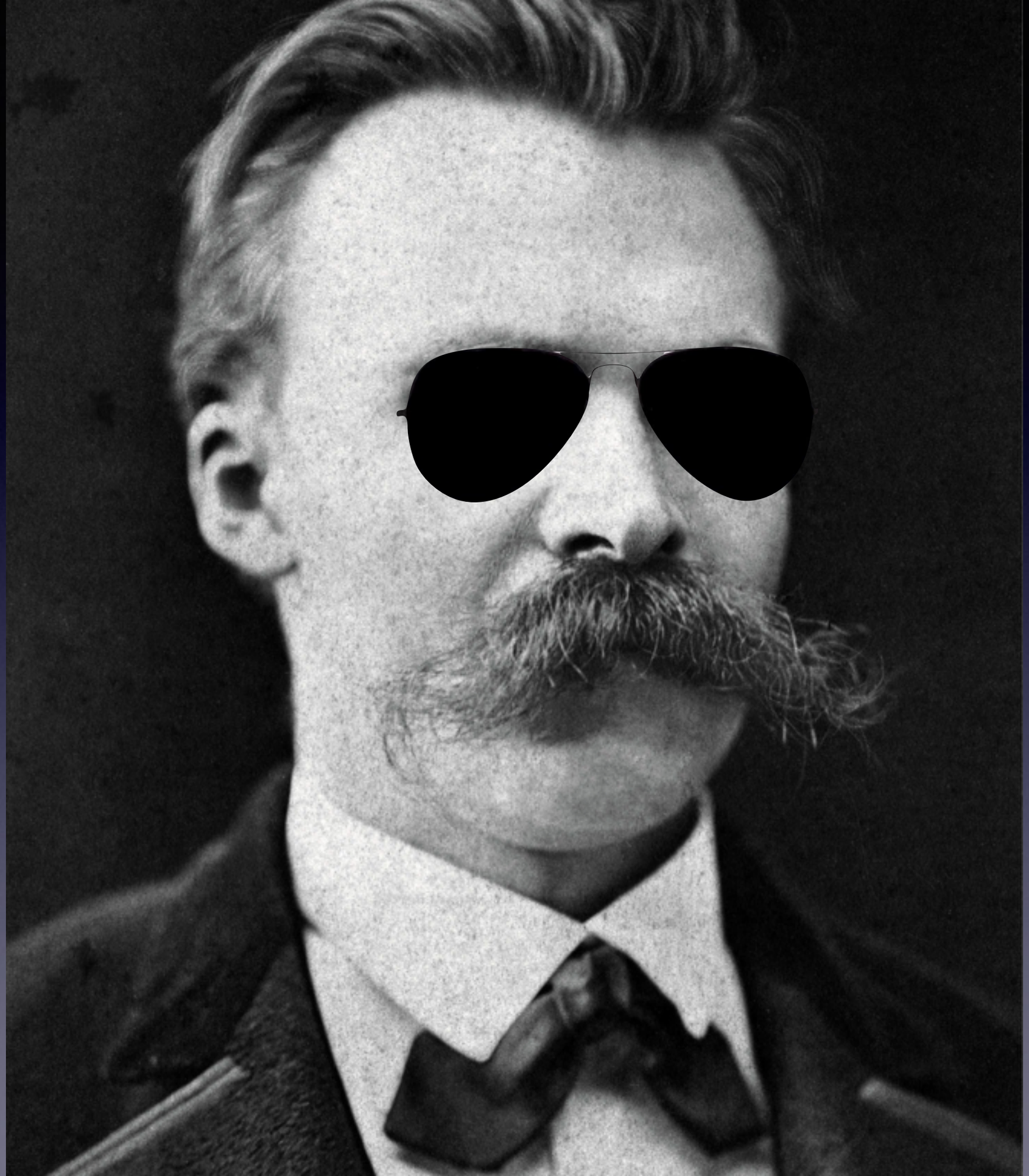
Bridging Header

“The single greatest source of complication to Swift is Objective-C. Broadly:

1 Dynamic, anything marked as @objc, ImplicitlyUnwrappedOptional, and so forth.

2 The syntax ; the curly braces, the fact that statements are not expressions, and so forth. Further, the standard library does not employ functional terminology or, generally, functional patterns. “

Bugs?



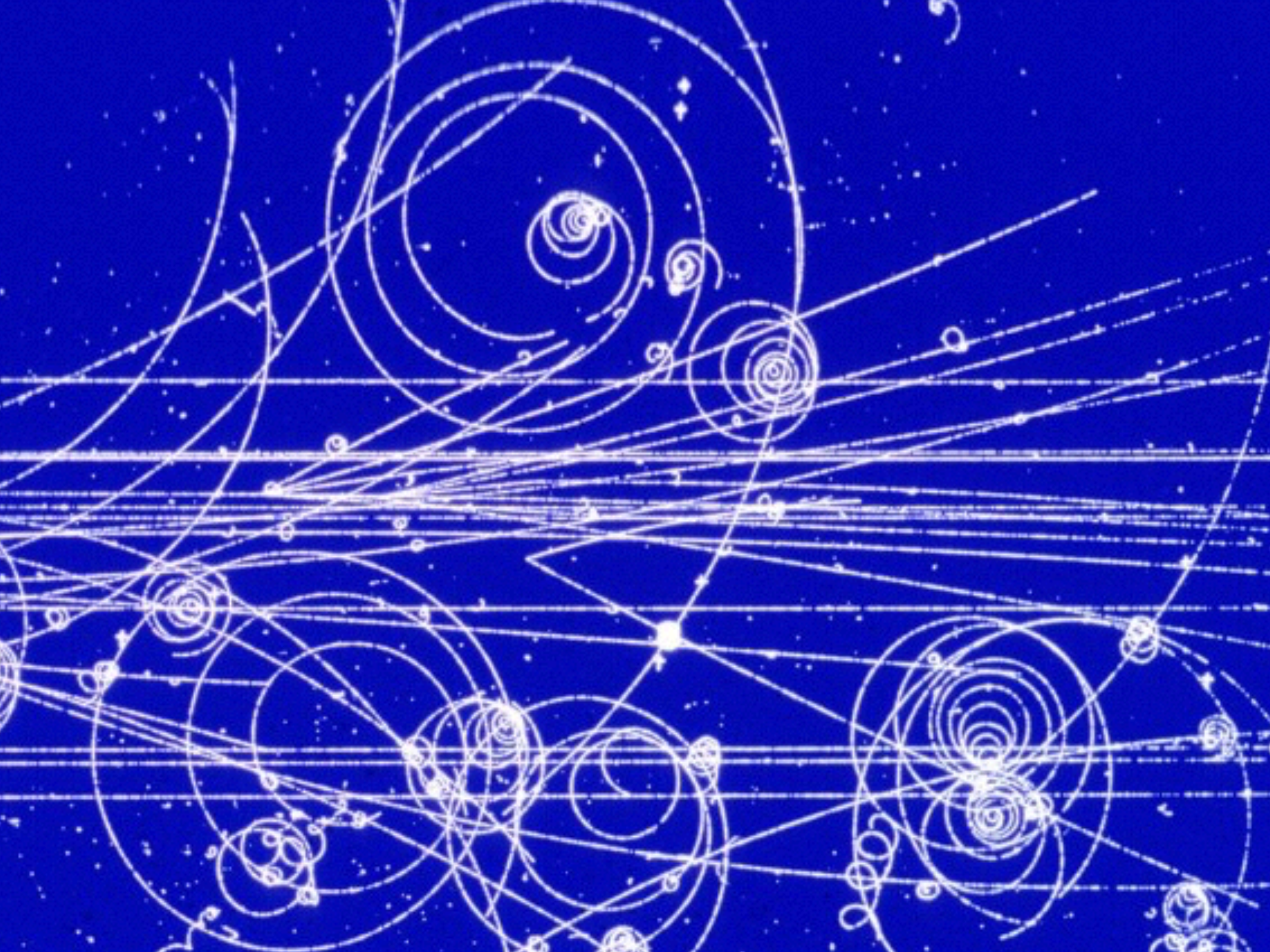
“Your whole life, like a sandglass, will always be reversed and will ever run out again"

“Life should support human interests in some fundamental way but cannot”

Swift doomed to repeat ObjC mistakes?

3

Uncertainty



Uncertainty Principle

Photon double-slit experiment

The exact position and momentum of an atomic particle can only be known within certain limits

Reality is mutable and not thread-safe?

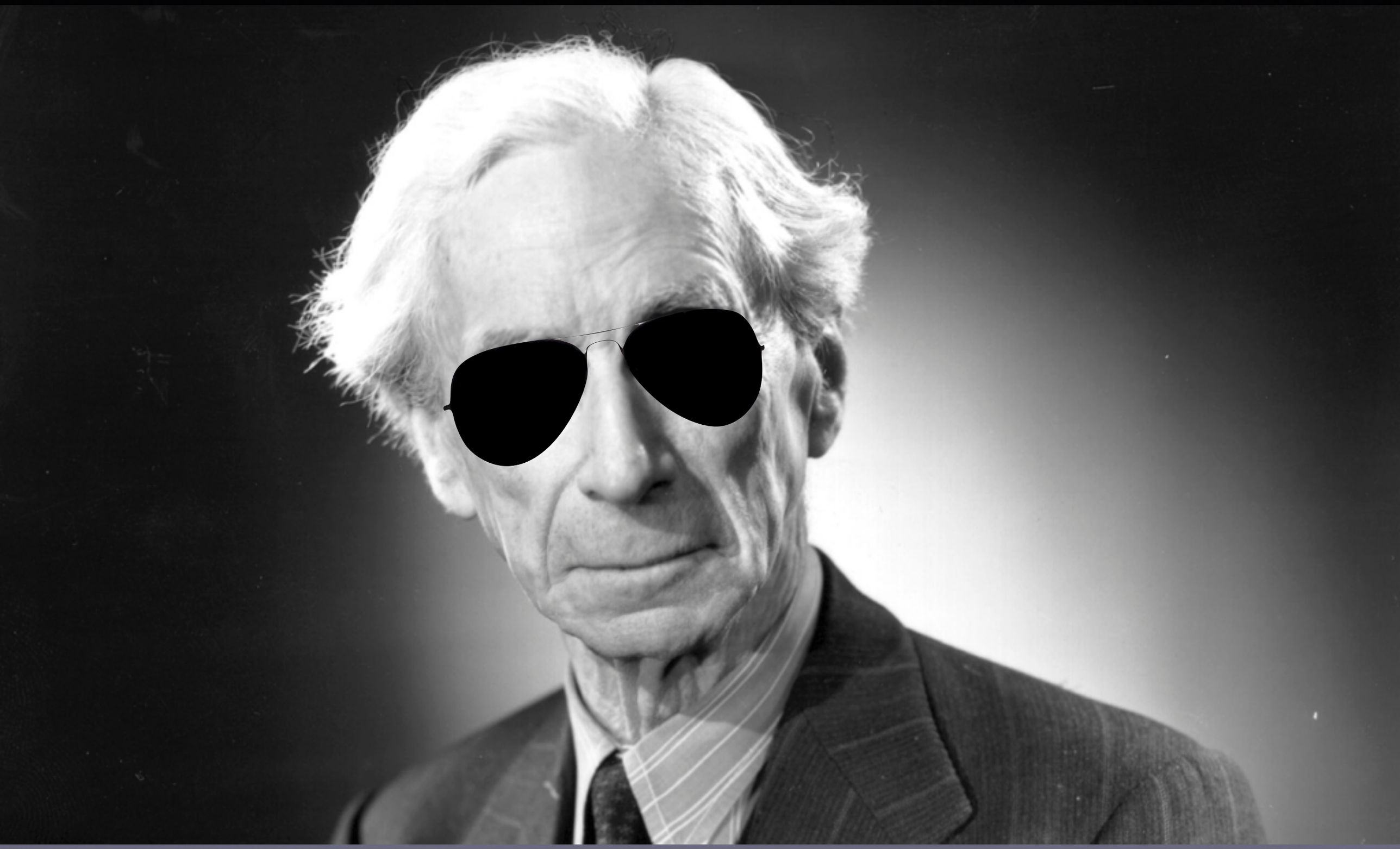
Optionals

```
var reality: Exist?
```

```
guard let reality = reality else {
    return
}
```

Accept uncertainty

```
reality?.think()
```



“Uncertainty frees us from the tyranny of dogma”

Stress less

Conclusion

Learned something new

Better Developers

Better People?

Cat gif!

@marmelroy