Talk at CocoaHeads Aachen
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Looking back: Objective-C

Is Objective-C a language at all?

Technically: A preprocessor as thin layer above C-Compiler. Classes have 2 files, interface and implementation, top level keywords (@end), implicit type defaults to ‘id’ Syntax for method-calls: [obj with: val], declaration ‘-’ or ‘+’,’ Usually instance-methods returned ‘self’ for chaining. The rest is strict C

Developed in the early 1980s by Brad Cox, as ‘soldering gun’ for ‘Software-ICs’, then used and later acquired by NeXT in 1987.

There is almost no documentation, and it is not needed.

The values of the language are in its runtime and the related frameworks.
Objective-C: Going South

Getters and setters
‘retain’ and ‘release’
ARC and properties
GCD and Blocks
Literals
Dot-syntax
Nullability

Punching holes
Distributed ownership
Clogged interface:
[who knows: ^void (blocks) {anybody}];
Not that bad: @“string”, @[a, b, c]; @{ k1: o1, k2: o2};
Same thing twice: [myView window]; VS. myView.window;
Greetings from Swift:
@property (readonly, nonatomic) NSView * _Nonnull aView;

... we were doomed ...
Looking @ Swift

A new language to the rescue.

Safety first: Empty object-pointers and type mismatching is made (almost) impossible, because such code never compiles.

Swift is a real computer language, not a bloated preprocessor, with a full range of features, namely dot-syntax with round and curled brackets on a single file.

It has concurrent types: ‘String’ vs. ‘NSString’, ‘Array’ vs. ‘NSArray’ etc.

It offers a lot of rude expressions nobody immediately understands:

\[
_\] [String:Any] [NSString] ((value?))!

empty array of type optionals

generic typing

func swapTwoValues<T>(_ a: inout T, _ b: inout T)
Looking @ Swift

Mixing types: What?

Float, CGFloat, Double

Why is there a difference?
Who has, as a developer in need of a ‘soldering gun’, intentions to make a difference like:

let a:CGFloat = 1.2
let b = Float(a)

Why does this not compile?

let a = 1.2 as! CGFloat
let b = 0.1 as! Float
let c = a * b

instead of explicit typing
let c = Float(a) * b
Looking @ Xcode

May Xcode and its automated correctional facilities be always with you!

There is one question:
If the machine, the software, knows what is wrong and how to do it right, why can’t the machine do it on its own?

Maybe some more questions:

Why the torture?
Why is that the stuff not under the hood?
Looking @ Updates

Who likes compatibility?

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Thank you.