

Swiftabú

2023

una iOS conferencia en
la ciudad Buenos Aires
ARGENTINA!



THANK YOU ORGANIZERS!

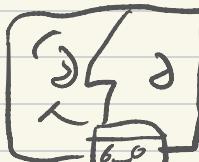
♥ THANK YOU SPONSORS ♥

Code
magic

Rappi

emerge
tools

RevenueCat



Lickability

RUNWAY
runway.team

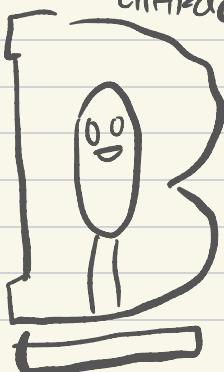


Kodeco



CHARACTER DESIGN BY
peca ♥ ♥ ♥

SWIFTABLE



WITHOUT OUR
ORGANIZERS
+ SPONSORS
THIS CONFERENCE
LOVE
WOULDN'T BE
POSSIBLE!

PRE-EVENT FUN

DIVERSION PREVIA AL EVENTO

WE GOT TO
LEARN ABOUT
YUMMY
ARGENTINO
FOOD!!!

Meet & greet
REUNIÓN Y SALUDO

aprendimos sobre
comida argentina

CHOCOTORTA

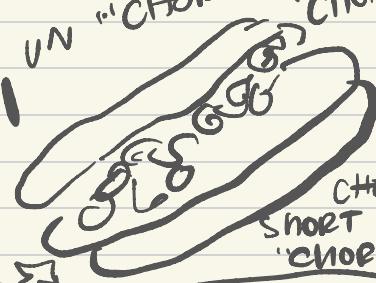
Chori



vn "Chori" o "Choripan!"

Chori is

short for
"choripan"



"el choripan es un
sándwich tradicional
del asado argentino
formado por chorizo
a la parrilla y pan."

Hi! I just
flew in
from
Brazil!

ENCANTADA
de
CONOCERTE

Pleased to meet
you

Chori is a sausage
BBQ? Beef. It
reminds me of
a Chicago or
(Brazilian) Hot Dog.

es me recuerda a un
hotdog brasileño o
Chicago

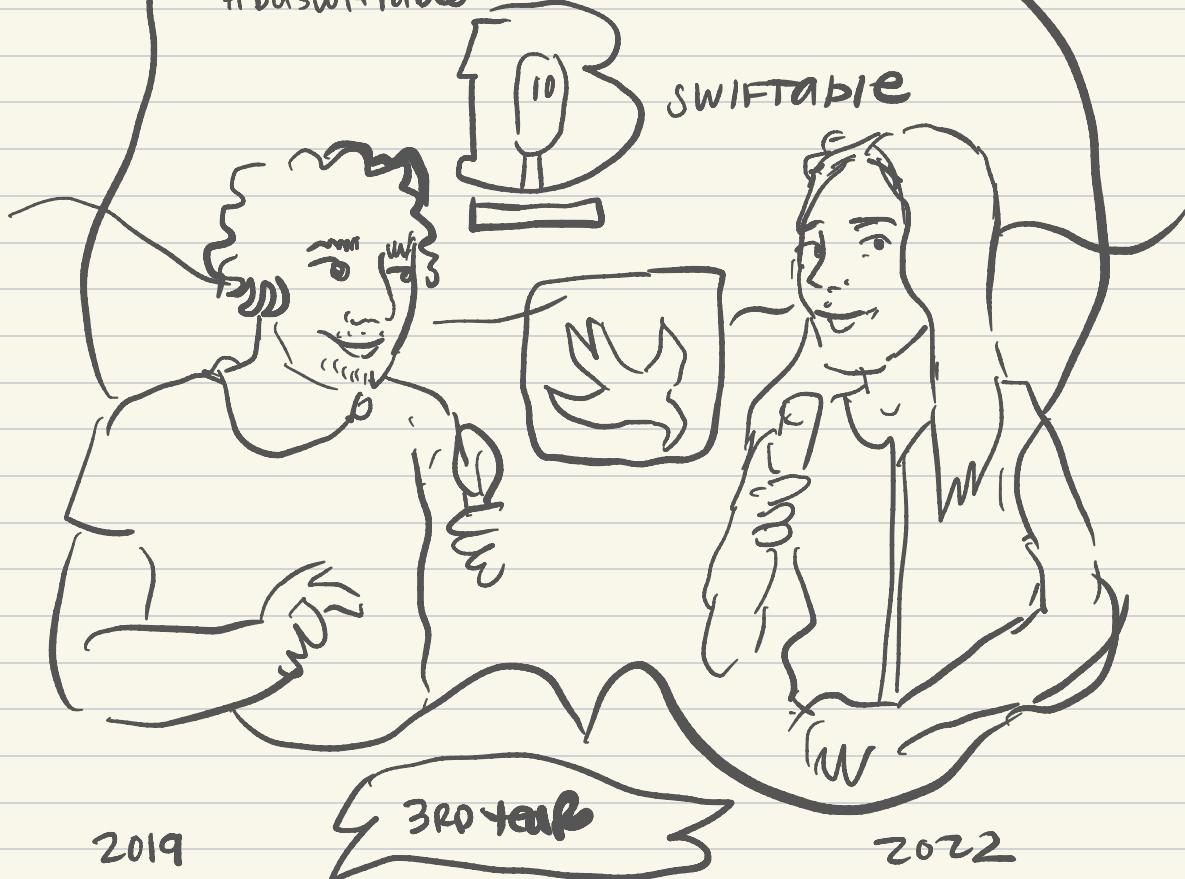
ESTOY CANSADO.
I'M TIRED? MY
FLIGHT FROM
TOKYO WAS 30
HOURS!

Hi I'M FROM
Chicago!

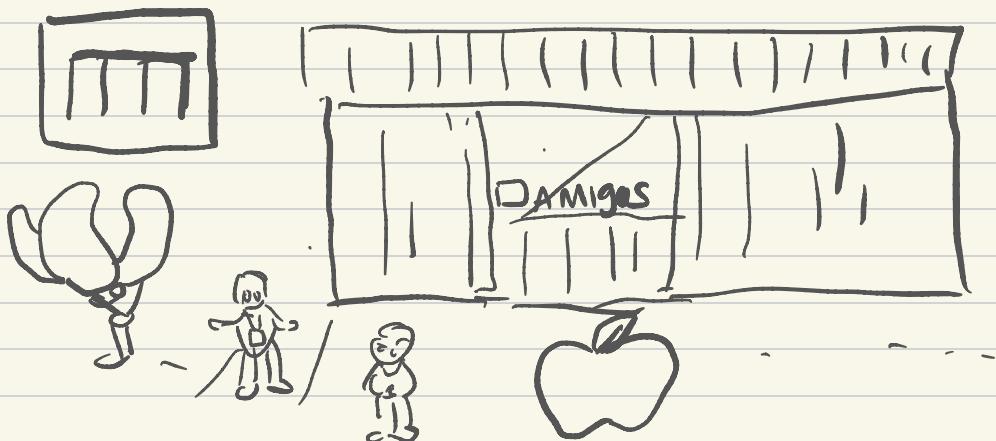
AMSTERDAM!

リルオット
@littlegssa

#bdaswifttable



VENUE: "FRIENDS OF THE FINE ARTS"



OPEN SOURCE

You can do
IT!

...100% of you are
PART of the OPEN
SOURCE COMMUNITY!

@joshdholtz
JOSH
HOLTZ
@revenue
cat

I STARTED
CONTRIBUTING TO FASTLANE
AND IT CHANGED MY LIFE!

fastlane

ADD
TESTS THEY'RE
SO good...

or write tests

#ba_swiftifiable

CONTRIBUTOR

BE VERBIL &
CONCISE...

review your
PR

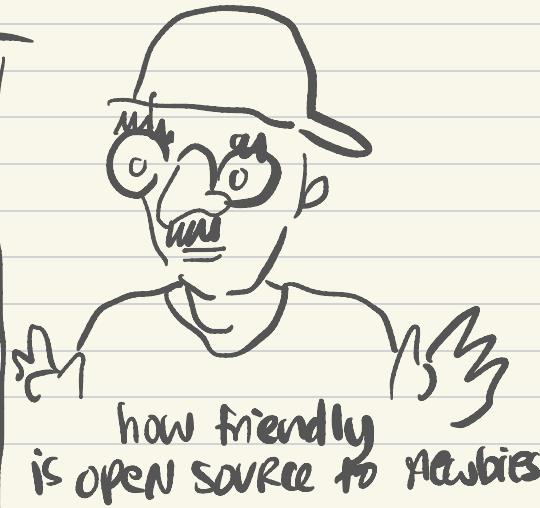
How to become a CORE CONTRIBUTOR

OPEN SOURCE IS ABOUT
COMMUNITY



JOSH HAS A LOT OF
EXPERIENCE ...

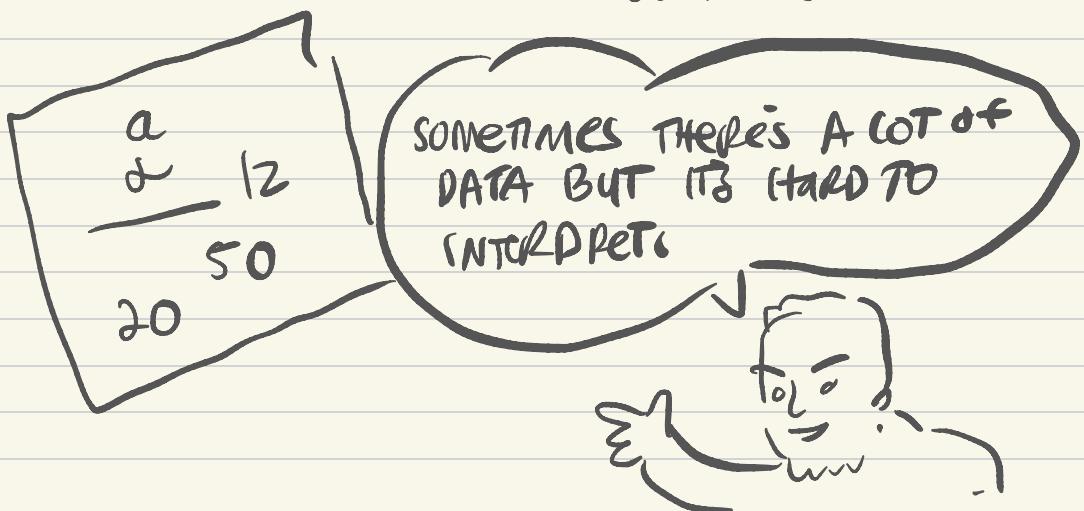
He EXPERIMENTED
WITH CREATING A NEW
PERSONA "MAGNIFICENT
MILES" TO SEE HOW HE'D
EXPERIENCE CONTRIBUTING
AS A NEW GITHUB USER
WITH NO HISTORY!



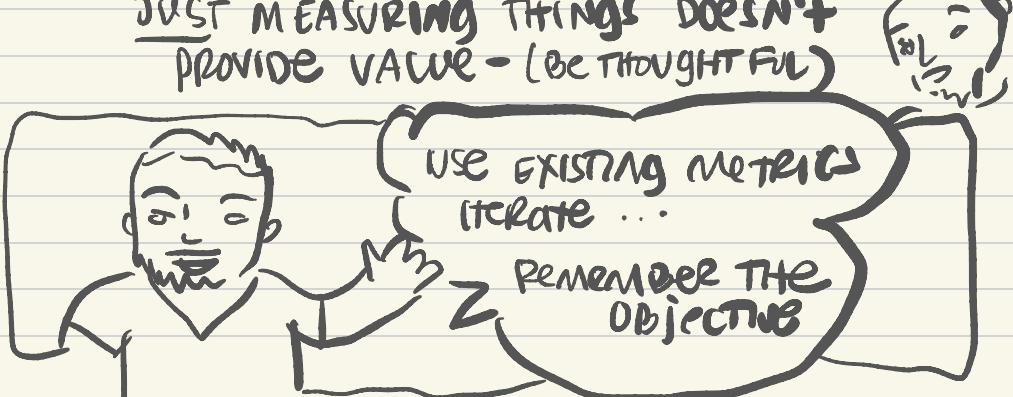
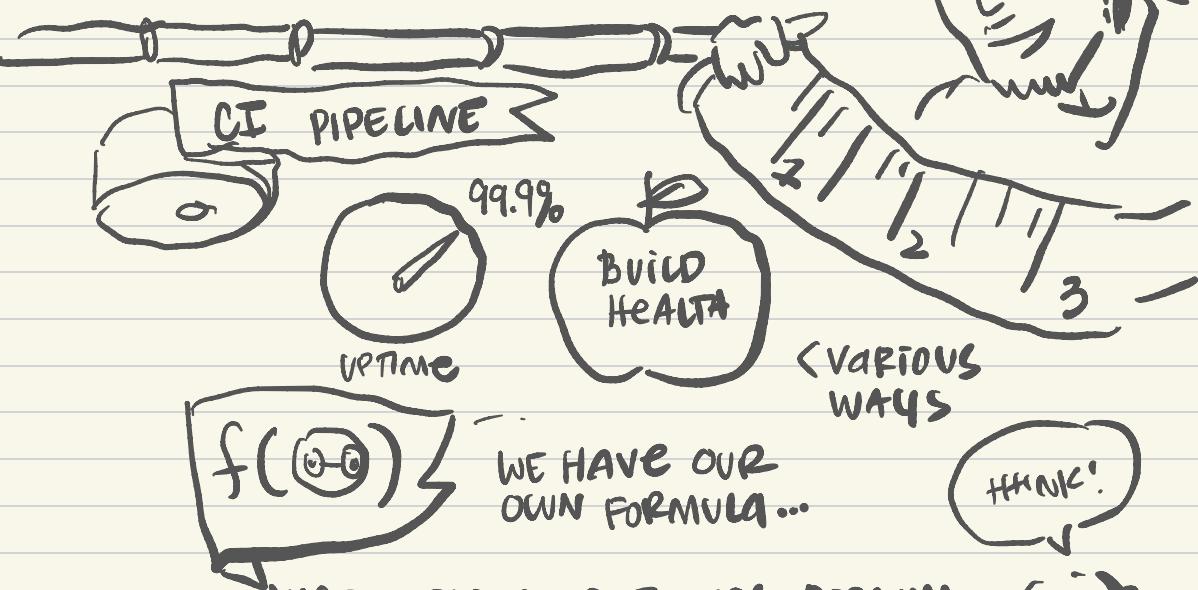
how friendly
is open source to newbies

Masaru Nakamura

Engineering Manager @ Pinterest



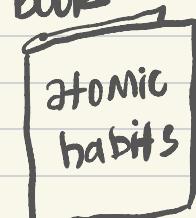
#baswifttable



ATOMIC CODING HABITS

MAURICIO CHIRINO
#BASWIFTABLE

INSPIRATION
FROM THE
BOOK



for example...

automate
nudges toward
the
desired
behavior

fastlane ...

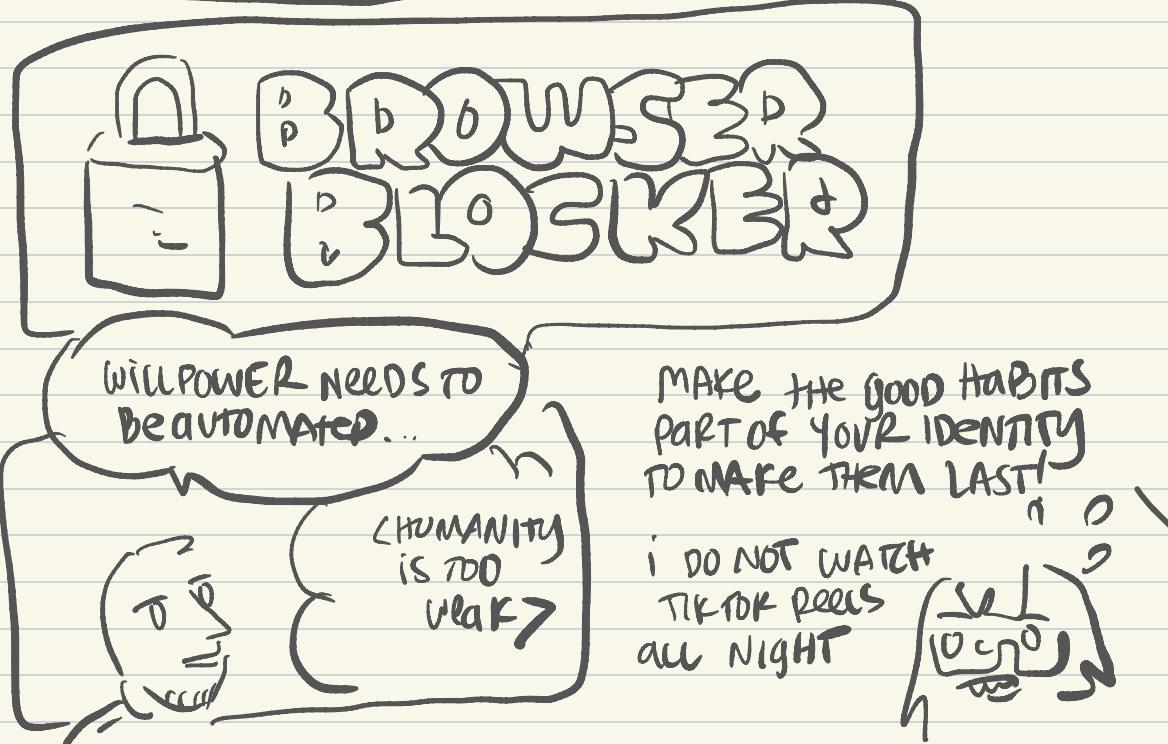
thank you for 20
your tests. ❤️

example

let current AI
tools do heavy
lifting for us...

(MAURICIO CHIRINO)

#baswiftable



JOY & PAIN

OF SWIFT
PACKAGES

#baswiftable

PETR PAVLIK

PERRY STREET SOFTWARE

3 YEARS AGO

OUR APP IS

SLOW BUILD TIMES
OLD CODE BASE
OLD TECH

WHERE DO WE GO
FROM HERE?

WE WERE EARLY
ADOPTERS OF
SWIFT UI

AND
SAM (STILL
BUGGY IN
2020)

WE CONSIDERED
OUR OPTIONS!

COCOAPODS → SAM

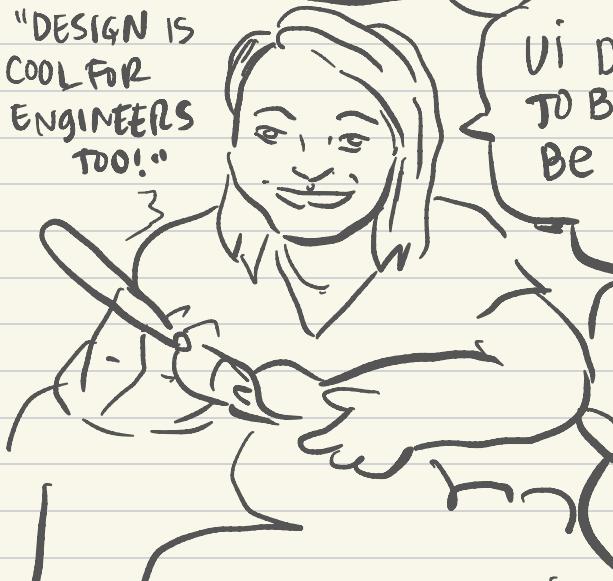
WE TOOK A LEAP
OF FAITH TO
MAKE THE SWITCH

CLAUDIA MACHIEL

basrifable

AIRLINE PILOT 
ENGINEER
MOM. 

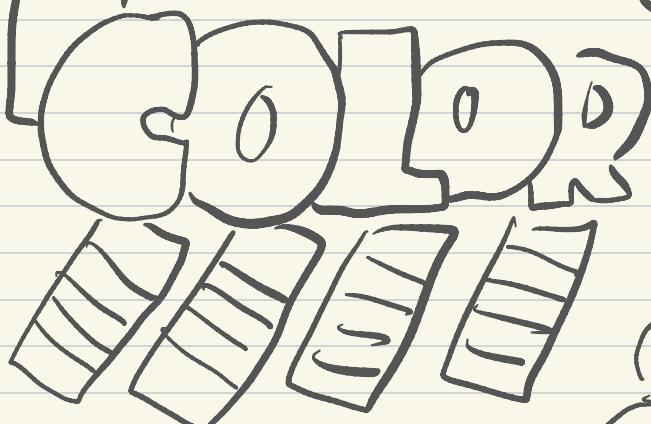
"DESIGN IS
COOL FOR
ENGINEERS
TOO!"



UI DESIGN DOESN'T HAVE
TO BE HARD. IT CAN ALL
BE GOVERNED BY A SYSTEM
OF LOGICAL RULES

TINY IMPROVEMENTS =
BETTER USER
EXPERIENCE =
MORE USERS..

COLD



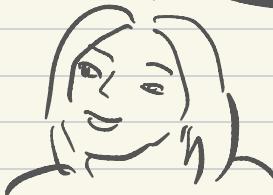
DESIGN HAS
ALWAYS BEEN
STRONGER FOR
iOS devS

MAP

DYNAMIC SIZING
IS IMPORTANT..

< MANY PEOPLE SET
THEIR FONTS LARGER
FOR EASIER READING >

ESPECIALLY OLDER
SENIORS



NOVEMBER 30,
2023

#ba swiftable

TUIST

PEDRO PIÑERA @pepicraft
@tuist

from challenge to



my journey developing
TUIST for scalable

XCODE
PROJECTS

from
SPAIN
España
cities
IN
Barcelona

NOW I
HAVE
FRIED
MATE
THIS WEEK

opbxproj WAS INTRODUCED
before git

2003

git

2005

github

2008

workspaces

A FORMAT NOT
DESIGNED FOR
COLLABORATION

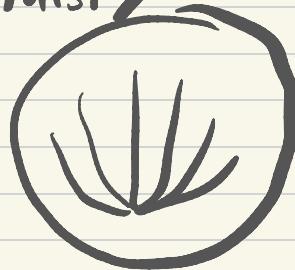
#baswifttable

HOW TO SOLVE
Pbx project? conflicts

HMM...



<THAT'S WHY I MADE
TUIST> WITH OTHERS.



TUIST

<these xcode projects AND
WORKSPACES GET LOMANI
cated ..>



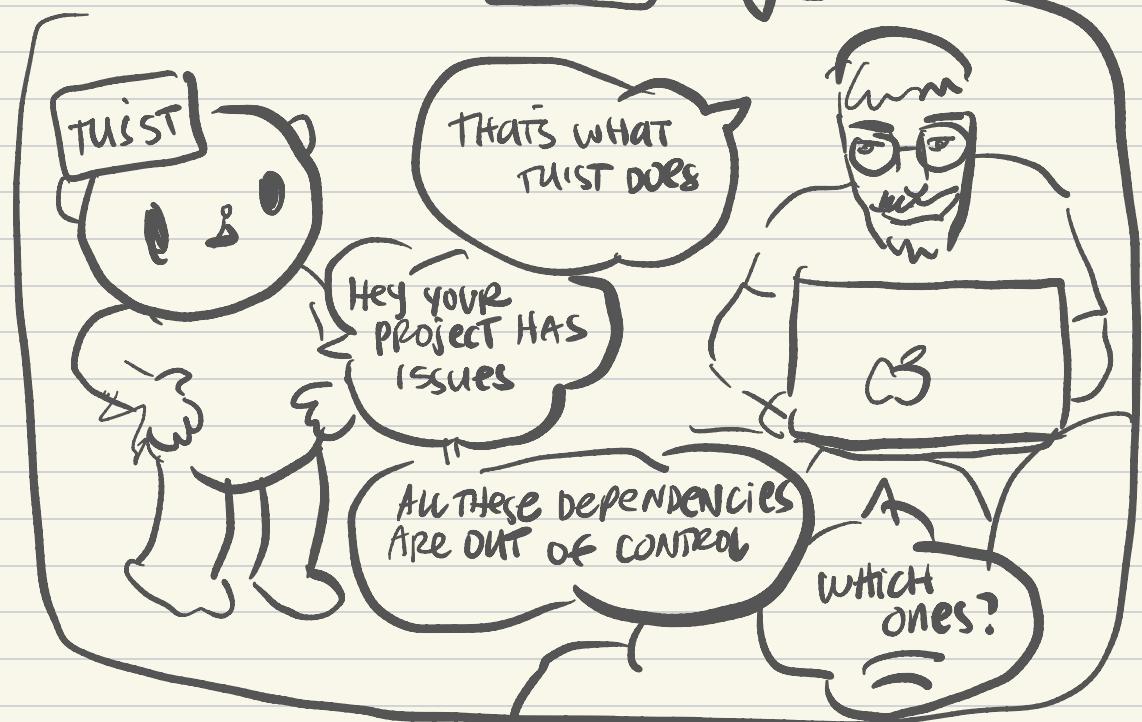
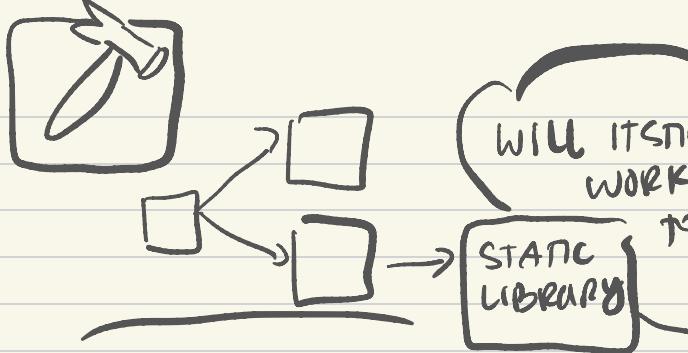
- ⊕ ADDING FRAMEWORKS
- ⊕ LOTS OF HANDS
TOUCHING THE SAME
CODE

tip
Keep stuff
STA

```
import ProjectDescription

func targetDependencies() -> [TargetDependency] {
    return [
        .target(name: "SwiftableKit"),
        .project(target: "SwiftableKit", path: "./SwiftableKit"),
        .sdk(name: "CoreData", type: .framework),
        .framework(path: "./SwiftableKit.framework", status: .optional),
        .library(path: "./SwiftableKit.a", publicHeaders: "./SwiftableKit/Headers", swiftModuleMap: nil),
        .xcframework(path: "./SwiftableKit.xcframework", status: .optional)
    ]
}
```

#baswiftable

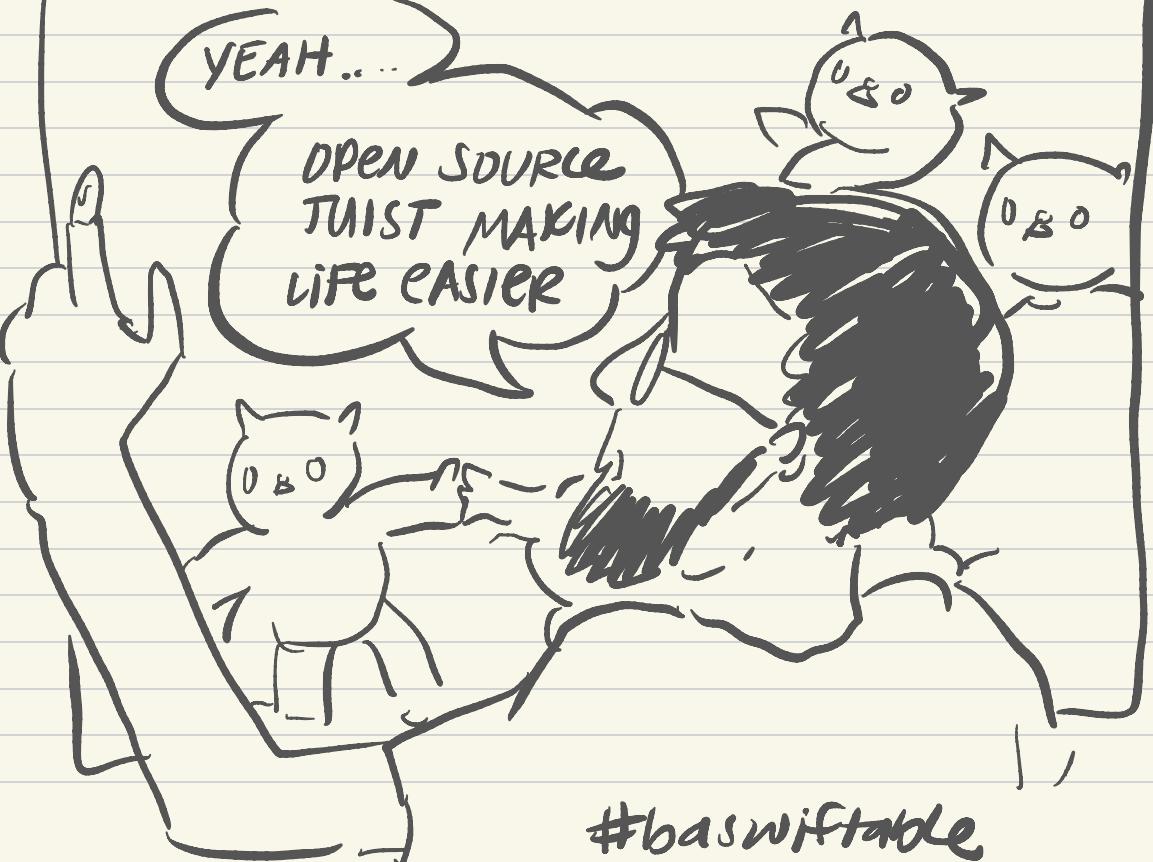


- ✓ My project has minimal Git conflicts - Project.swift DSL
- ✓ My project graph is fun to work with - Project.swift DSL
- ✓ My project is fast within Xcode - Focused projects
- ✓ My project deps DX is smooth - XcodeProj package integration
- ⚠ My project clean builds are slow



```
[TuitSigningTesting] Processing TuitSigningTesting-Info.plist  
[TuitScaffoldTesting] Processing TuitScaffoldTesting-Info.plist  
[TuitMigrationTesting] Processing TuitMigrationTesting-Info.plist  
[TuitDependenciesTesting] Processing TuitDependenciesTesting-Info.plist  
[TuitLoaderTesting] Processing TuitLoaderTesting-Info.plist  
[TuitCoreTesting] Processing TuitCoreTesting-Info.plist  
[TuitAsyncQueueTesting] Processing TuitAsyncQueueTesting-Info.plist  
[TuitPluginTesting] Processing TuitPluginTesting-Info.plist  
[TuitKit] Processing TuitKit-Info.plist  
[TuitGeneratorTesting] Processing TuitGeneratorTesting-Info.plist  
[TuitAutomationTesting] Processing TuitAutomationTesting-Info.plist  
⚠ /Users/pepicfrt/src/github.com/tuist/tuist/Tuist/Dependencies/SwiftPackageManager/.build/checkouts/swift-to-swift-tools-support-core.xcodeproj: DEFINES_MODULE was set, but no umbrella header could be found to generate a module map (in target 'TSClifc')  
⚠ /Users/pepicfrt/src/github.com/tuist/tuist/Tuist/Dependencies/SwiftPackageManager/.build/checkouts/Yams/Yams.xcodeproj: DEFINES_MODULE was set, but no umbrella header could be found to generate the module map (in target 'Yaml')  
⚠ /Users/pepicfrt/src/github.com/tuist/tuist/Tuist/Dependencies/SwiftPackageManager/.build/checkouts/swift-system.xcodeproj: warning: DEFINES_MODULE was set, but no umbrella header could be found to generate the module map (in target project 'Swift-system')  
Build Succeeded  
[ZIPFoundation_ZIPFoundation] Processing ZIPFoundation_ZIPFoundation-Info.plist  
Build Succeeded  
Starting 59 cacheable targets: AEXML, Any Codable, ArgumentParser, ArgumentParserToolInfo, CSystem, CYaml, Checksum, CombineExt, CryptSwift, DOT, Graphviz, Kanna, KeychainAccess, Logging, PathKit, ProjectAutomation, ProjectDescription, Queue, Stencil, StencilSwiftKit, SwiftGenKit, Swifter, SystemPackage, TSCBasic, TSCUtility, TSCLibc, Tools, TuistAnalytics, TuistAsyncQ, TuistAsyncQueueTesting, TuistAutomation, TuistAutomationTesting, TuistCore, TuistCoreTesting, TuistDependencies, TuistDependerTesting, TuistEnvKit, TuistGenerator, TuistGeneratorTesting, TuistGraph, TuistGraphTesting, TuistKit, TuistLoader, TuistSigning, TuistSigningTesting, TuistSupport, TuistSupportTesting, XcodeProj, Yams, ZIPFoundation, ZIPFoundation_ZIPFoundation  
n  
All cacheable targets have been cached successfully as frameworks  
+ tuist git:(main) ✘
```

COMMAND
LINE
TUIST



52500
MINUTES

HOW DO YOU MEASURE YOUR CAREER?

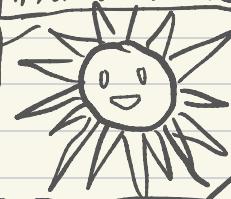
BECOMING
A LEADER
+
DEFINING
MOMENTS



Daniela
Riesgo

an iOS / mobile dev
from Argentina -

#baswifttable



DEFINING
MOMENT

STUDENT

iOS developer

SCRUM
MASTER

ASSISTANT
TEACHER

ENGINEER

Dima Kalachnik

#buswifttable

@dkalachniuk

Software Enginner
Leader, KLM

DimK Kalachnik

CHECK OUT (new)
+ SEAN ALLEN
+ FIO WRITES CODE!

WHAT IS
MY PROCESS
OF LEARN
ING.

FROM

EARNING

to WRITING AN

OPEN SOURCE

TOOL.

ORIGINALY
FROM.
UKRAINE
NOW IN
NL

XCODE PROJECTS

TOOL TO HELP DEAL W/
MANAGING XCODE
PROJ

< i tested FIRST ON MY
INTERNAL TEAM THEN PUT IT
ON GITHUB >

i MADE A MEDIUM POSTS
THE GITHUB STARS
MOTIVATED ME!

MY TOOL -

github
STARS.

YAY!

A CHINESE BLOG
POSTED ABOUT MY
PROJECTS ... i GOT
INTEREST FROM MANY
CHINESE
ENGINEERS.



+ MOTIVATION

THEN i GOT
MY FIRST
PR REQUEST!

NOW i WANTED TO
MAKE A REAL MAC APP!

Be + MOTIVATION



#ba
swiftable

Osamu Hiraoka

Loves
BREAK
DANCE

Engineer @
CLACS METHOD
+ BREAK
DANCING
WORLD
CHAMPION

@littleosama

the Widget

Widget

VO

uton

iOS 17 HAS BROUGHT
NEW CAPABILITIES
<TD ENHANCE ANIM.
ATIONS + INTERACTIVITY!

Widgets work
across so many
platforms too
with adjustments -
watchOS, visionOS even!

Widgets are
cool!

< App Intent Protocol >
< see videos for code-along >

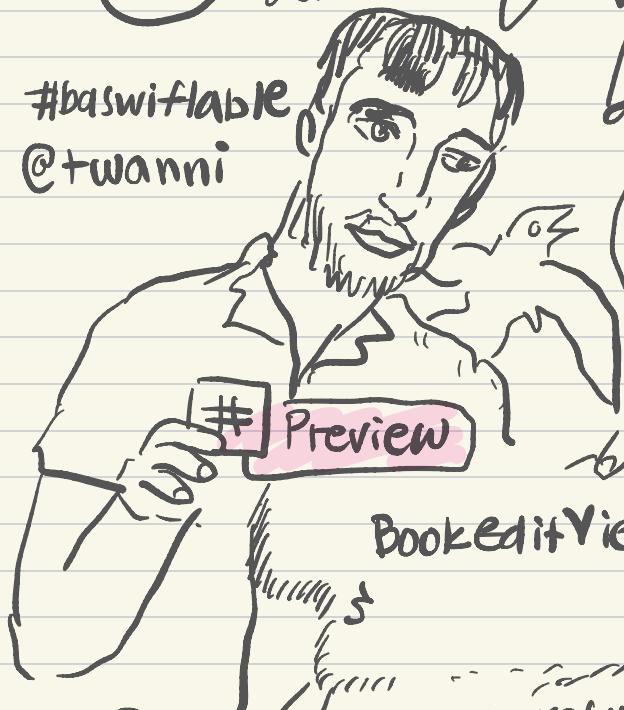


Harnessing the Power of #SWIFTMACROS

ANTOINE van
der Lee

Swift Sunderlaar

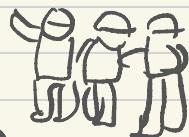
#baswiftable
@twanni



Let's keep SWIFT
SMALLER + MORE
FOCUSED

SLUG
PROPOSAL

SWIFT
Language
User Team



BookedItView(book:
Book())

so useful!

all the codes.



- testable
- accessible
- expandable

ALL THE
MACRO
CODE IS
THERE TO
SEE!

MACRO

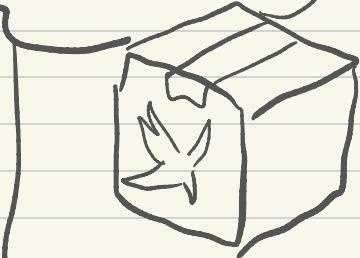
(0 B 0)

freeStanding(peer)

i can have
many diff
creations
so powerful
now

LOTS TO LEARN IN
THE INFORMATION
SESSIONS FROM
WWDC

THE MACROS ONLY
HAVE ACCESS TO THE
FILE THEY'RE IN.



LOTS OF USEFUL
SWIFT PACKAGES
TO LEARN...

SwiftSyntax
MACRO

(see video,
some great
code samples)

Implementation of
@#Freestanding
#URL Macro

SwiftAST Explorer

COOL TOOL



SOME OF
THESE MACROS
ARE SO NERDY
BUT ALSO
USEFUL

check out open source
MACRO examples → so nerdy.
(see video) github



look at
me!
i'm
the
COMPILER
now!

Here's some
MACROS

ALL THE
NERDY
MACROS



@SPyable

FOR MARK GENERATION

DON'T use MACROS

MACROS are best
for boilerplate code!

- non repetitive code
- outside info/dates/global properties,
compile time / diagnostics



Q & A

WE SHOULD BE HAPPY
SWIFT IS EVOLVING

Carola Nitz

@-Caro-N

#baswiftfable

SENIOR SOFTWARE
ENGINEER @
NETFLIX



BACK END
+
FRONT END
WORKING
(IN HARMONY)

I'm adopting

GRAPH
QL

ORCHESTRATING REST
CALLS BETWEEN FRONT
END (ex. iOS) AND
THE SERVER

NETFLIX
STRANGER
THINGS

THE GRAPH QL
FRAMEWORK MAKES
LIFE FASTER // less
CONFUSION.



(watch videos for code samples)

WHAT is GraphQL good for?

COMPLEX DATA REQUIREMENTS
(Complex, nested, related data)

PROTOTYPING ...
data that changes a lot...

and more!

CAROLA NITZ

@-caro-n-

REST APIs are
STILL great for
PREDICTABLE
SIMPLE DATA..

GraphQL is
not a SILVER BULLET..



#boswiftable

#baswifttable

SEARCHING for ALIENS

@sond813

NOAH MARTIN

CO-FOUNDER
EMERGENTOOLD

DRAKE EQUATION

$N =$

rate of
habitable
planets

x fraction w/
life
x # of stars

WITH 10
TRILLION STARS
MILES ...
THEODDS ARE
TRUE!
THAT SOMEWHERE

NUMBER of
habitable
Planets

AS LONG AS ONE OF
THESE FACTORS IS VERY
BIG IT WILL HAVE AN
IMPACT!

ALIENS

TAKE AWAY for iOS
ENGINEERS

LOOK FOR SCALE
FACTORS -
WAYS TO AMPLIFY
YOUR WORK ...

SCALE
FACTORS

BIG SCALE FACTORS

ALL APPS
IF APPLES JUST REDUCED APP LAUNCHED
BY ONE SECOND, IT WOULD BE
162 DAYS TOTALY → SAME AS A
FLIGHT TO MARS.

ONE SMALL CHANGE
CAN HAVE A BIG
AFFECT!

SO APPS THAT ARE
POPULAR OFTEN HAVE
MILLIONS OF LINES OF
CODE

HOW

THE

shake formula

APPLIES TO

NO MATTER WHAT THEY'LL
HAVE MORE BUGS!

GOOD CODE IS AS LITTLE
CODE AS POSSIBLE!

INFERD DOPE!

THINK ABOUT FINDING
ALIENS NEXT TIME YOU
PLAN A PROJECT

@widcket

MANAGING + -

VOSS

LIBRARIES at

SCALE

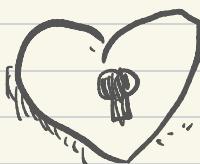


TOOLBOX
for SDKs.

RITA ZERRIZUELA →

iOS ENGINEER

@OKTA



#baswiftable

NOT JUST
SPECIALISTS
BUT
ALSO
THOSE
WHO CAN
DO ALL

SHAPED
ENGINEERS ET

Example -
AUTH
mobile
SDKS

automation
of
documenta-
tion
from open
API specs

E.X.
dashboards of
issues and
PRs.

SLACK
BOTS

#baswiftable

@charlesPODO

Charles Pisciotta

@audible

AUTOMATING Audible's iOS RELEASE PROCESS

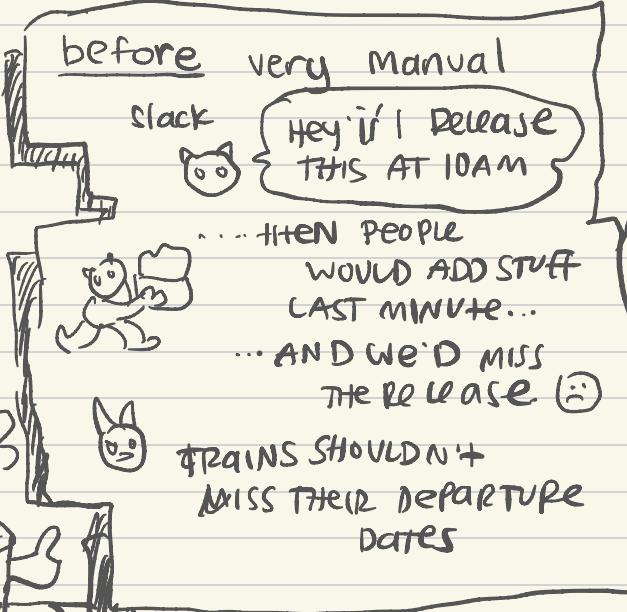
ALSO
TWEAK
THE
PROCESS!



POR Ejemplo
for example



We gave
Marketing
the ability to
use git to
MAKE PULL
REQUESTS +
MANAGE METADATA!



<OUCH>

MARKETING

Yay! we feel
empowered!

We can do release
notes too

(QA)

WHEW! engineers
hated doing meta
data

CHARLES
PISCIOTTA @AUDIBLE

@charlesp000

(see video for complete
list of examples)

+ -
EX.
AUTOMATIC
TAGS

- +
EX.
VERSION +
BUILD
NUMBERS

we removed
unnecessary
processes ...
AND BECAME MORE
INTENTIONAL.

RELEASE EXCEPTION
REQUEST.

WHAT'S THE
FIX?

WHAT'S THE
IMPACT?

FOR
HOTFIX PRs

PROCESS creates
INTENTION.

MON	TUES	WED	THURS

o xcconfig

SLACK
PROCESS to
add intentional
friction.

#ba
swiftable

<AD HOC HOTFIXES
MESSED UP
SCHEDULE...>

...Planned
HOTFIX

0 & 0

v3

E1

ARGENTINO!!!

@marcelobusico

#baswiftable

iOS TECH
LEAD,

taller

testing

} to ensure quality
save time + money

MARCELO BUSICO

ASSERT

Mocks

enum
InvalidReason()

DEPENDENCY
INJECTION

NO' (E) SINGLETONS

GOOD CODING PRACTICES

DON'T TALK TO
STRANGERS

TELL DON'T ASK

SINGLE RESPONSIBILITY

ADVICE - CAPTURE REQUIREMENTS w/ UNIT TESTS

#basifiable

- write unit test before writing code
- MAKE QUESTIONS b4 writing code

MARCELO BUSICO

@MARCELBUSICO

"SWIFT UNIT TESTING"

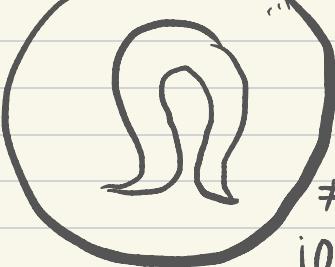
iOS Lead at taller.



mpos Evolution,

(MOBILE POINT of sale)

PAIN POINTS & WINS



based in Canada

#baswiftable
iOS @ lululemon

@jmanuelmosso

iOS SOFTWARE
ARCHiTECT, LULULEMON

originally
from
MEXICO!
¡chido!

J. manuel mosso

"EMPLOYEES ARE
BBR USERS"
THEY
CARRY AROUND
THE PHONE
& APP



mpos
PROXY

stripe

Lead
REGISTER
REGISTER

STORE C

STORE B

Hello welcome
TO LULU
MON!

LULULEMON
EDUCATORS
HELP
CUSTOMERS
IN STORES

KICKASS UX
+ iOS ARCH.
ITECTURE
DESIGN
TO MAKE
LULULEMON
EDUCATORS
DO RAD
WORK



j° manuel mosso 



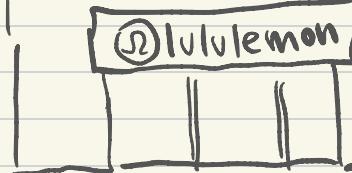
START WHERE YOU ARE
USE WHAT YOU HAVE
DO WHAT YOU CAN

mobile
Point
of

Sale

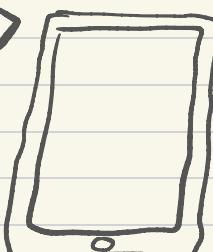
lululemon

@jmanuelmosso
iOS software
architect, lululemon
#baswiftable



< LOTS OF STUDYING how USERS
WORK, HELP iterate THE MOBILE
APP + ITERATIONS >

(see video)



DEMYSTIFYING

APP

@SPR SLEPR

#ba swift
able

INTENTS

achli Ran'it

iOS engineer, lickability.

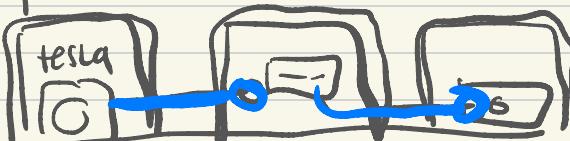
APP intents save users time

OPEN
the
TRUNK

WITH APP
INTENT

Ex. THE tesla APP.

A 1-step button tap instead of tapping 7 times



CODE examples + how to do it

THE SYSTEM CAN EASILY DISAMBIGUATE WHEN LISTING ENUMS.

Disambiguation.



SOMETIMES APP INTENTS
CAN FEEL LIKE MAGIC WHEN
THEY'RE RUNNING...

BUT REMEMBER THAT
THEY RESOLVE THEIR
PARAMETERS FIRST!

W SEE VIDEOS FOR SAMPLES
+ TIPS + LINKS >

<APP INTENT> PROTOCOL

a journey to your PR reviews

#baswiftable

@inahuelzapata

TECH LEAD, TALLER

YOU CAN LEARN A LOT ABOUT
YOUR team's CULTURE LOOKING
AT THEIR PRS!

PR Review

THE TIME IT TAKES TO
FINISH...

@Hey.

PR
review

NAHUEL
ZAPATA

PR REVIEW HISTORY

PR Review

QA



BE CONFIDENT!

A JOURNEY
TO YOUR
PR REVIEWS

WITH PRS YOU CREATE A BACK
AND FORTH WITH YOUR TEAM-
MATES!

WE ARE ALL HUMAN AND MAKE
MISTAKES

PR REVIEW

OPINIONS ARE NOT
FACTS...

IF ITS A
FACT BACK
IT UP WITH
DOCUMENTATION!

YOU SHOULD NOT
USE SINGLETONS

CAN WE TRY TO USE
DEPENDENCY INJECTION
INSTEAD? WE GET
X, Y, Z BENEFITS FROM
IT...

bE**K**ind

NAHUEL ZAPATA @nahuelzapata
#baswiftable