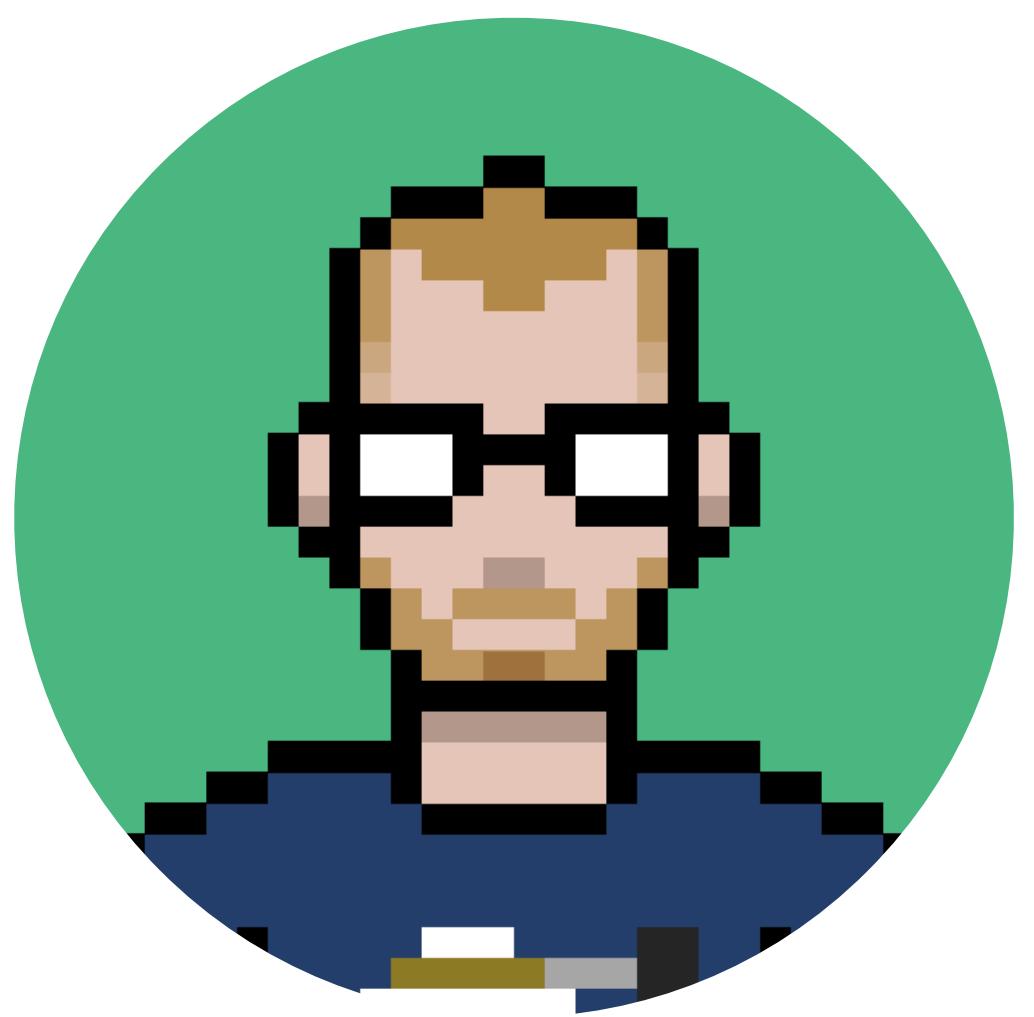




**Keep It Simple, So you can complicate it later**

# HELLO



Matteo



Konstantin



# Bear

## Secure markdown notes

The screenshot shows the Bear application interface on a Mac. On the left is a sidebar with a search bar at the top. Below it is a list of notes and tags. The notes include:

- Notes
- Trash
- bear
- code
- comics
- context
- debug
- dev
- film
- games
- mammals
- music
- shinyfrog
- swift
- unity
- video

Notes listed on the right:

- 36m Grocery List
  - Bread Flour - Instant Dry Yeast -
  - Extra-virgin Olive Oil - Mozzare...
- 1h Bear
  - ⌚ `/bɛɪ/ /noun/ \* a large, heavy mammal which \*walks o...
- 6m Write down your ideas!
  - Bear is the \_most elegant\_ way to compose, sync and store your \*notes\* on /iPhone, iPad and Mac/ 📱🔄💻
- 19m Books to read
  - \* \*Stoner\* - John Edward Williams [Stoner (novel)](https://...)
- 1h Swift code samples
  - ``` swift var a = 1, b = 2 (a, b) = (b,

The screenshot shows the Bear application interface on an iPhone. It displays a note titled "Write down your ideas!" with the following content:

H1 Write down your ideas!

Bear is the most elegant way to compose, sync and store your \*notes\* on /iPhone, iPad and Mac/ 📱🔄💻

Organize and provide #context to your notes! Insert [links](🔗), email@address.rocks and locations.

Keep your tasks in check:

- Clean and tidy todo lists within the note
- ... with an overall progress bar in the note

H2 Don't limit yourself to plain text

Bear is the most elegant way to compose, sync and store your \*notes\* on /iPhone, iPad and Mac/ 📱🔄💻

A large image of a bear's face is displayed in the background of the note.

# Shiny Frog

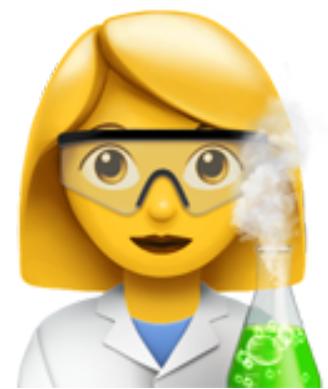


Indie since 2005





**Why are we here today?**



Mostly because you're smart



**BUT**



Sometimes you're a  
bit TOO smart



# Overthinking



- Why graphic UI? I'm good at code! I can code it!
- Core Data? Notnx! I can write something simpler!
- UnitTests are for snobbish people!

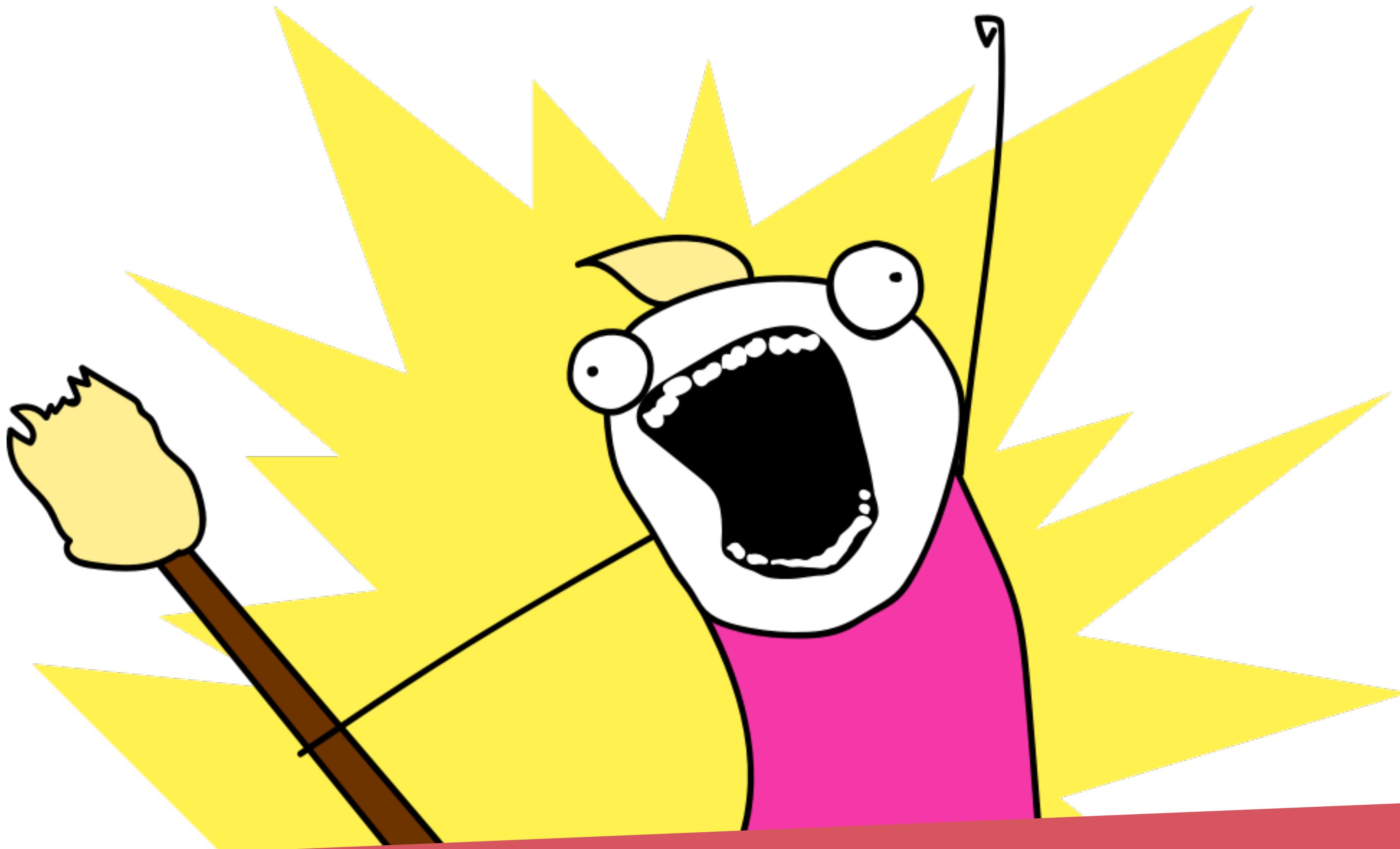


# Breathe



- Most apps have commons needs
- Existing tech and patterns are here to help
- No need to reinvent the wheel every time

# Get all the “free” wheels



FREE

# Topics

-  UI: what you see
-  Persistence: what you save
-  Unit testing: what's actually working



UI

# Options

- Code everything 
- 3rd party Frameworks
- Interface Builder

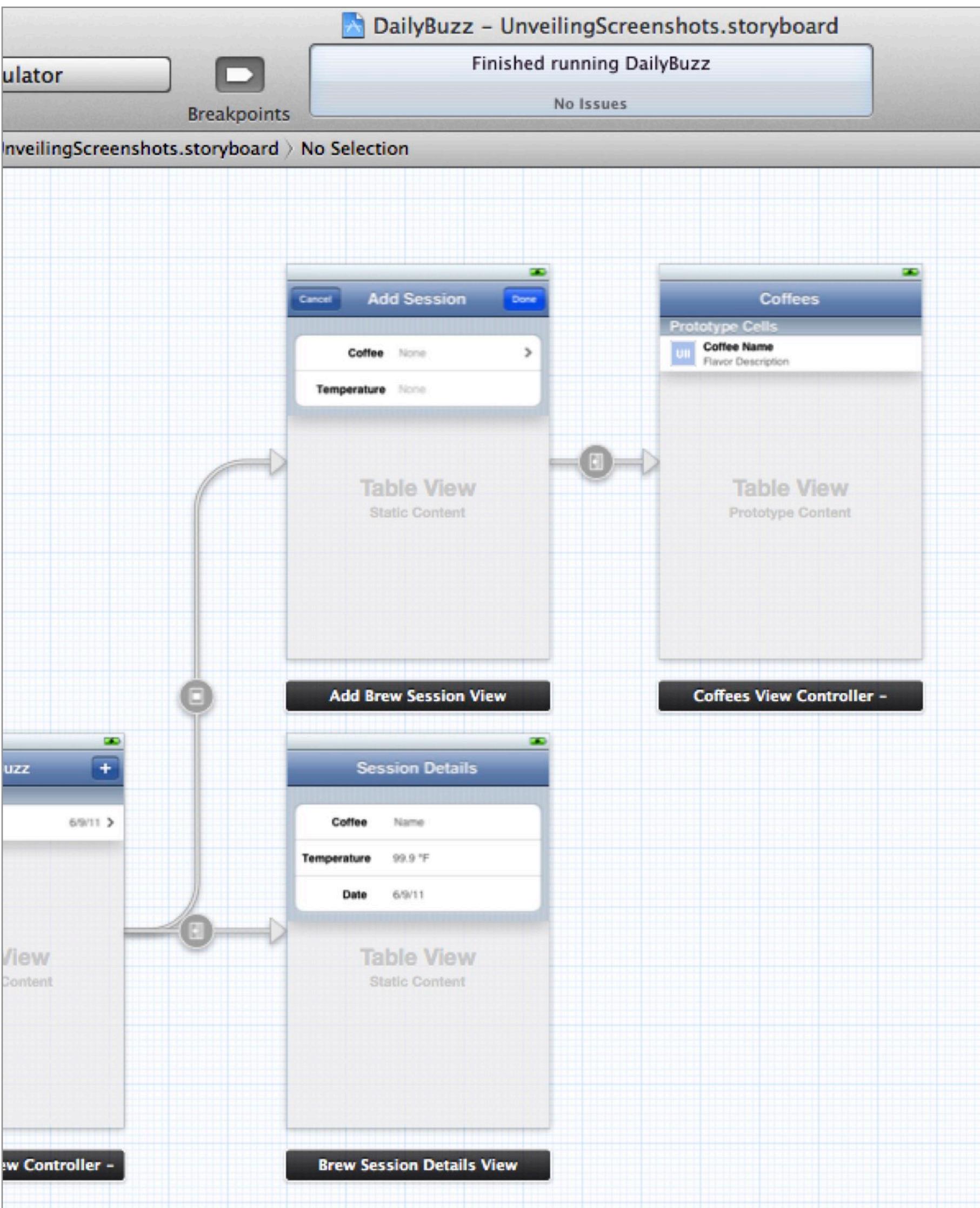
# **IB Evolution**

# NIB / XIB files



# Storyboards

## iOS5 (2011)



# Autolayout

## iOS6 (2012)



# Safe Areas

iOS11 (2017)



# So what are the advantages?

- Do less with the same results
- New features every new OS release
- Embrace devices that don't exist yet ✨



**Cousin time!**

**“If I layout in code—I know where it all lies”**

*- a cousin*

# **“I have legacy view hierarchies”**

*- a cousin*

**“Storyboards are un-mergeable ! ”**

*- a cousin*

# New wheel: Storyboard



- Learn once use for 10+ years
- Get free updates from trustworthy devs
- Easy to understand project flows



# Persistence

# Options

- Code your persistence layer
- Use a 3rd party Frameworks
- Core Data

# Code yours

- Really? 😅
- Only if you have super special needs (you don't)
- Big initial effort, bugs, maintenance 😔

# 3rd party

- Could be good
- Could disappear overnight (Parse)
- Closed data format

# Core Data

- Free and with 14 years of history
- Gains new features every year
- Open formats (XML, SQLite, etc...)

# Core Data

Visual Data Editor

Version migration

Async database access



Multiple database instances

In memory data graph

CloudKit sync

Utility classes



**Cousin time!**

**“It’s hard and has a steep learning curve”**

*- a cousin*

**“I’ve heard that it’s slow!”**

*- a cousin*

**“My queries are complex and Core Data  
doesn’t support that”**

*- a cousin*

# New wheel: Core Data



- Learn once use for 10+ years
- Get new features every year
- Trustworthy, fast, open



# Unit Testing

# Options

- Use unit tests 🎉
- Don't use unit tests 😭



- Almost everyone agree on the usefulness
- BUT 🍑
- Very few are actually using it

# Unit Testing

- Established old technique (1960s, IBM for NASA)
- Good integration with Xcode
- Increases quality and structure of the code



**Cousin time!**

**“It’s not worth it for small projects”**

*- a cousin*

**“My code is full of dependencies and  
because of that not unit testable”**

*- a cousin*

**“I don’t believe in mass produced  
non-organic gluten-full Unit Tests”**

*- a cousin*

# New wheel: Unit Test



- Improve app quality
- Better code structure
- Just use it, please!

This slide is  
intentionally left  
empty

So—here is a panda!

PHOTO BY GUILLAUME BOURDAGES ON USPLASH





**So - what's the point?**

- Cousins are (probably) dumb
- Common patterns and established technologies save you time...
- ... and keep you sane

**“You tell me I cannot use shiny new  
things?”**

*- a cousin*

# Thank you



@matteorattotti



@nerolapis