

«Abacus» in Objective-C + Kindergarten mode

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As an introduction...

Goals of this exercise

- Manipulate the main interaction mechanisms under iOS
- Have most of them both as «outlet» and «actions»
- Practice a bit more StoryBoard
- Write a bit of Objective-C
 - ▶ **Without ARC**
 - ▶ **Sadly, too simple for really experimenting memory management**

Demo on a «small» device



Demo on a «large» device

4



iMidiNoteConverter



A similar application exists in the AppStore

Issued from a previous MOOC



App Store Preview

This app is only available on the App Store on iPhone.

iMidiNoteConverter 4+
Sebastien REMY
Free

iPhone Screenshots

Settings
GENERAL
Use 'Tr' in

Do# Ré# Fa# Sol# La#
Do Ré Mi Fa Sol La Si

Do3 = C3 = 60

C# D# F# G# A#
C D E F G A B

Octavia : 3 Note : 60

C# D# F# G# A#
C D E F G A B

Do3 = C3 = 60

Octavia : 3 Note : 60

Do# Ré# Fa# Sol# La#
Do Ré Mi Fa Sol La Si

Do3 = C3 = 60

Octavia : 3 Note : 60

A few hints

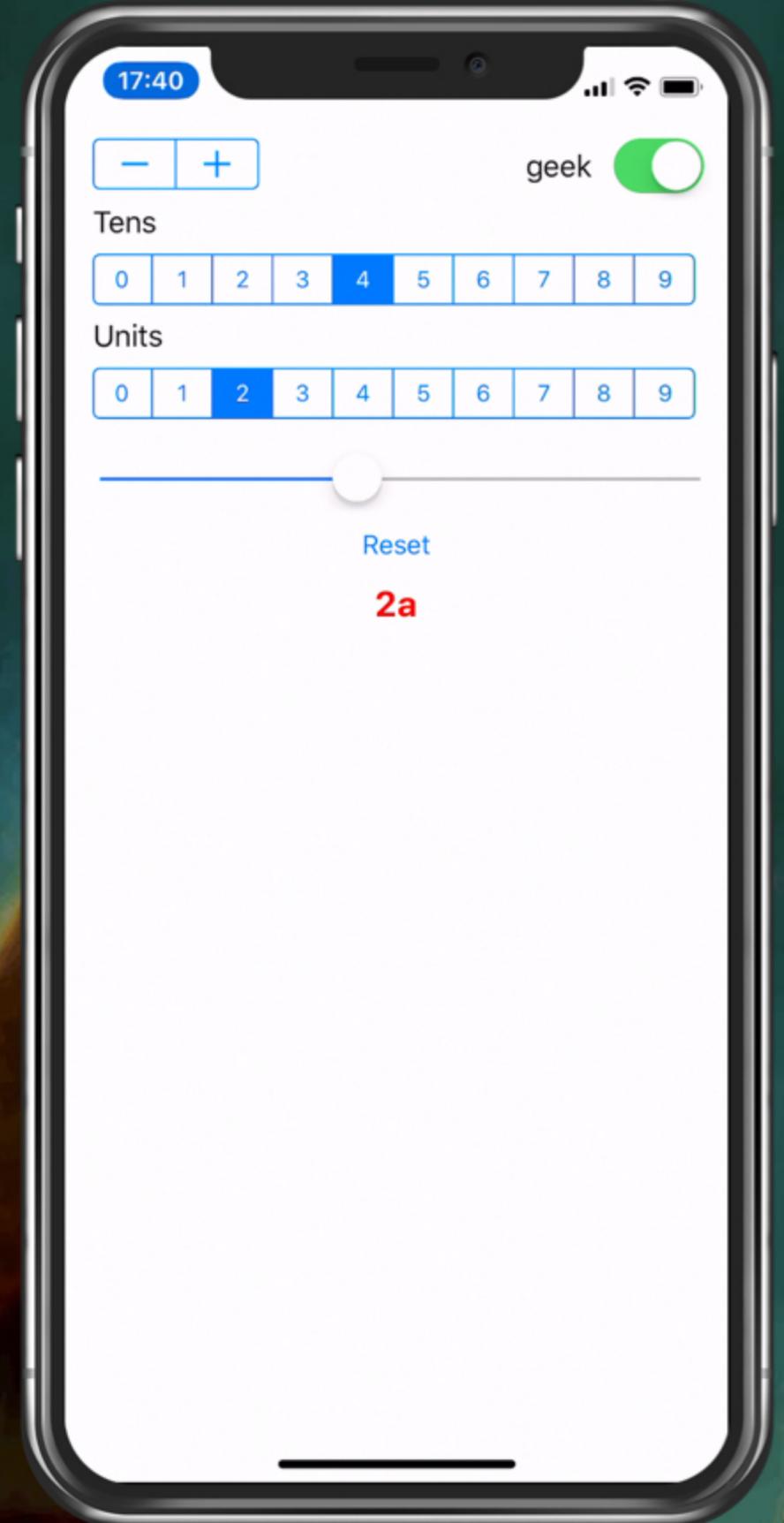
Interface mechanisms to be used

- UIButton + UILabel + UIStepper
- UISwitch
- UISegmentedControl
- UISlider

A bit of code

- NSString formatting
- A bit of color management

But you know...



A few hints



Interface mechanisms to be used

- UIButton + UISegmentedControl
- UISwitch
- UISegmentedControl
- UISlider



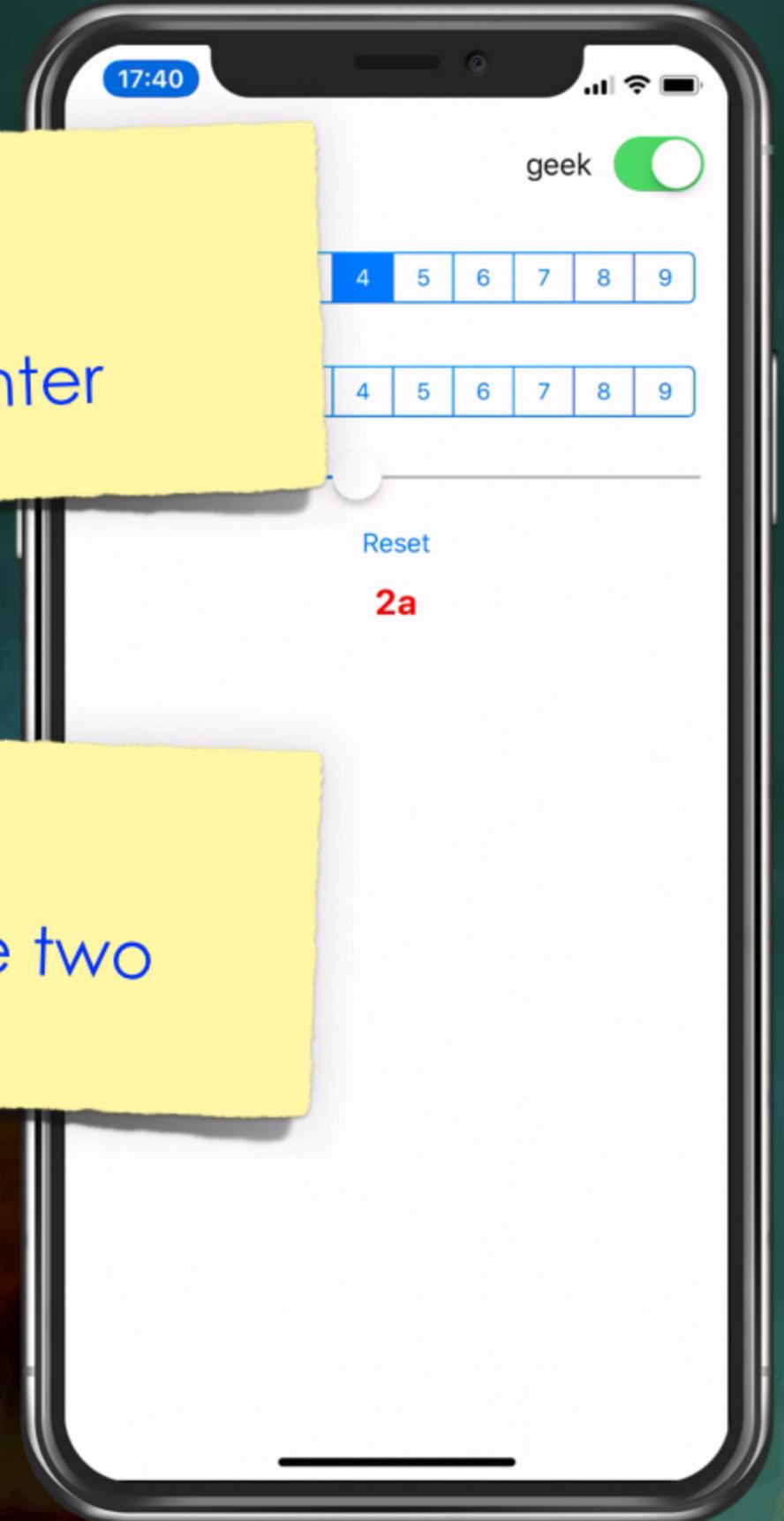
Trick 1

Just use the stepper's counter



Trick 2

Use the same method for the two UISegmentedControls



A bit of color

- NSString formatting
- A bit of color



But you know...



As a conclusion...



Have fun!



You may enrich the exercise

- 📍 Resources in the video description's page