

03. Xcode

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Office hours - Consultations

- **Slovenia**
 - <https://calendly.com/ios-academy-dejanskledar>
- **Macedonia**
 - <https://calendly.com/ios-academy-damjan-dimovski>
 - <https://calendly.com/ios-academy-filip-stojanovski>
- **Croatia**
 - <https://calendly.com/ios-academy-luka-terzic>
 - <https://calendly.com/ios-academy-josip-zavada>
 - <https://calendly.com/ios-academy-filip-gulan>
- but feel free to book a slot with any of the mentors

Office hours - Work from the office

- **Ljubljana**
 - Ljubljana, Tehnološki park 22A, building F, 4th floor
 - Please ping Dejan since he is remote from day to day
- **Skopje**
 - Maksim Gorki 13
 - Please ping Damjan or Filip S.
- **Zagreb**
 - Zagreb, Strojarska 22, 7th floor, ring at the door
 - ping Luka, Josip or Filip G.
 - 09h - 17h
- regardless of consultations
- feel free to come whenever
- we have fresh coffee beans ;)

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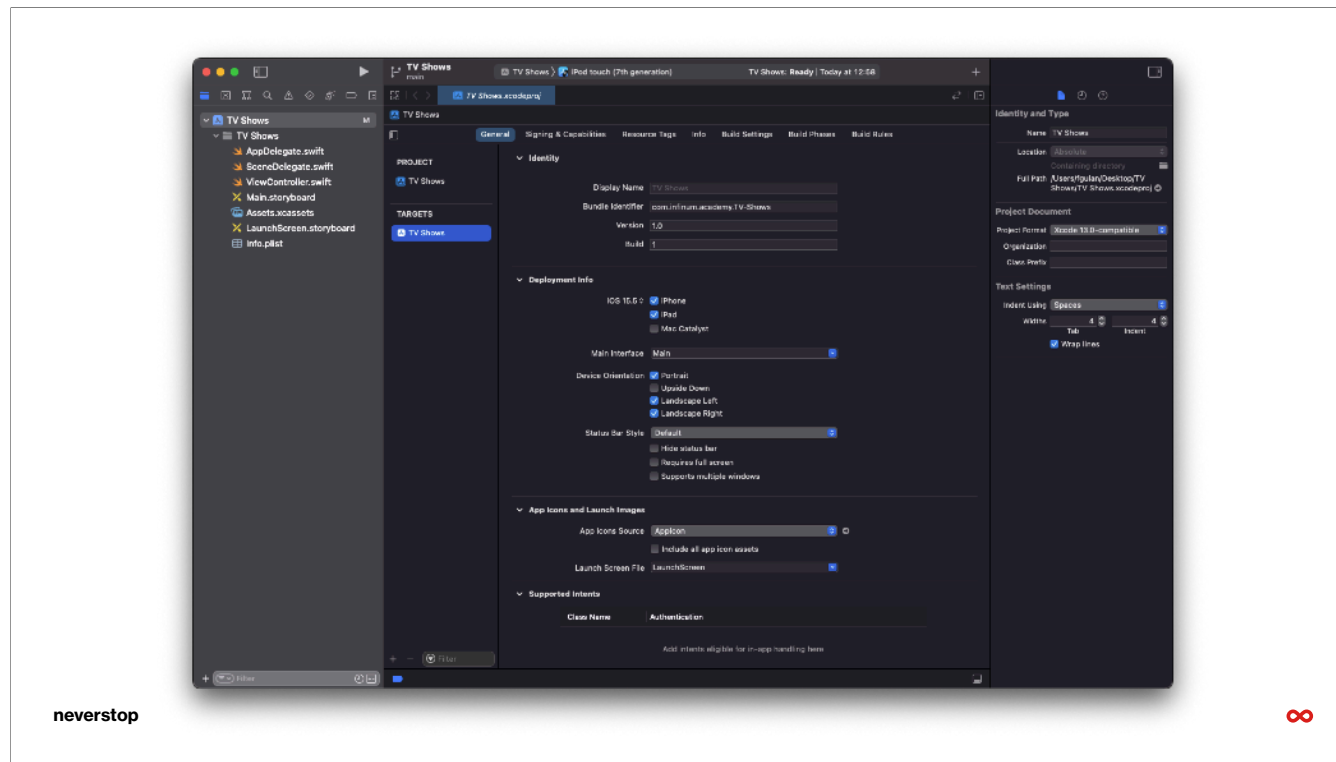


01

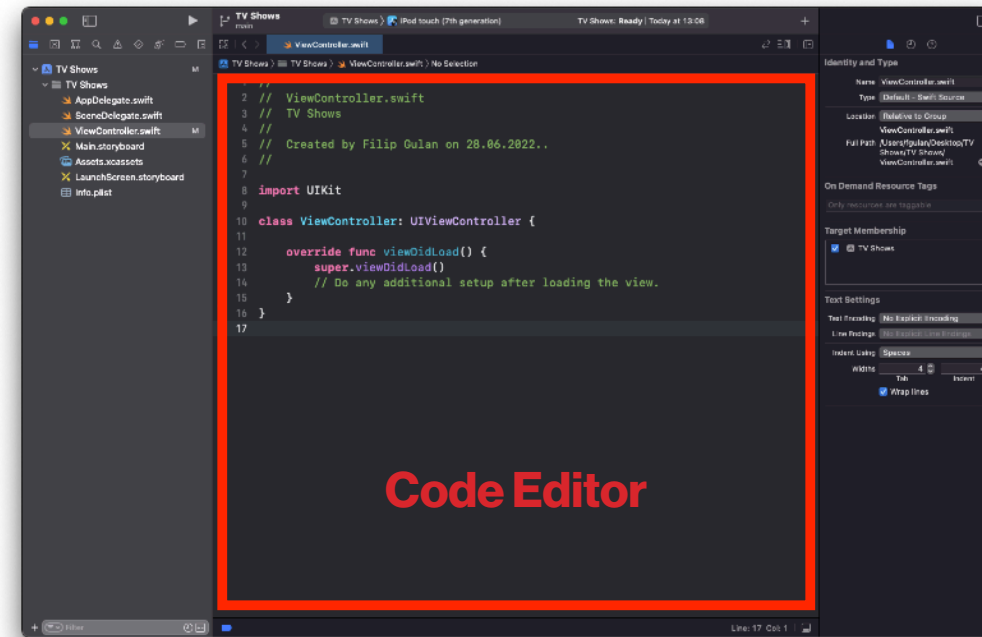
Xcode overview



– so every developer have this love/hate relationship with Xcode, I'm sure you will quickly found out why



- this is the first thing that you will see once you created a new “Single View App” project template
 - it could be that if you are using Xcode for the first time you would need to enter you Apple Developer Id
 - it could be that if you are using Xcode for the first time you would need to register your mobile phone to Apple Developer portal
- it will take some time to get accustomed with Xcode
- we'll go through the most important today



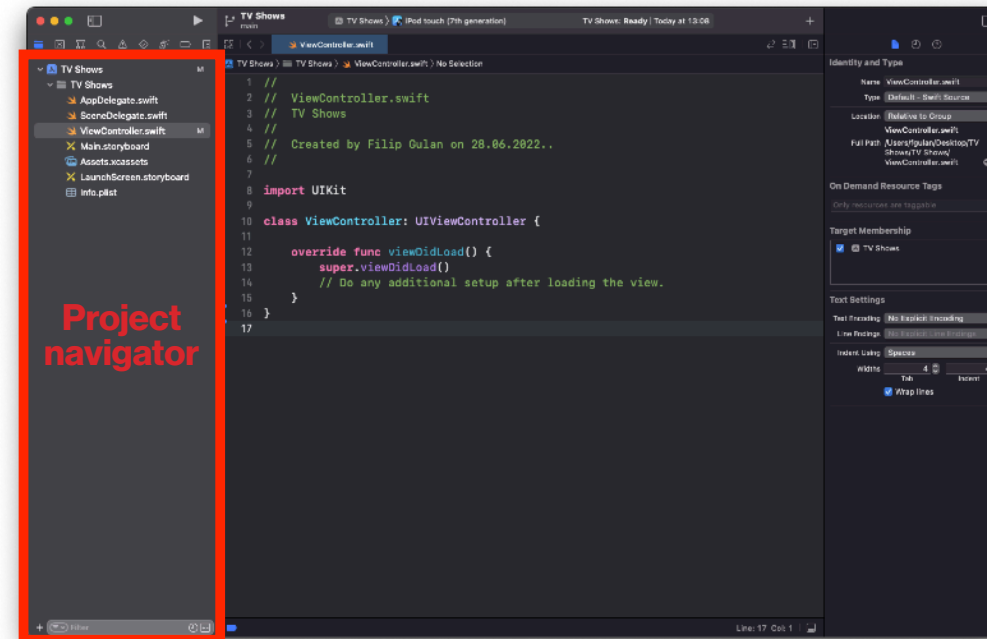
Code Editor

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- this is where you will spend most of your time ;)

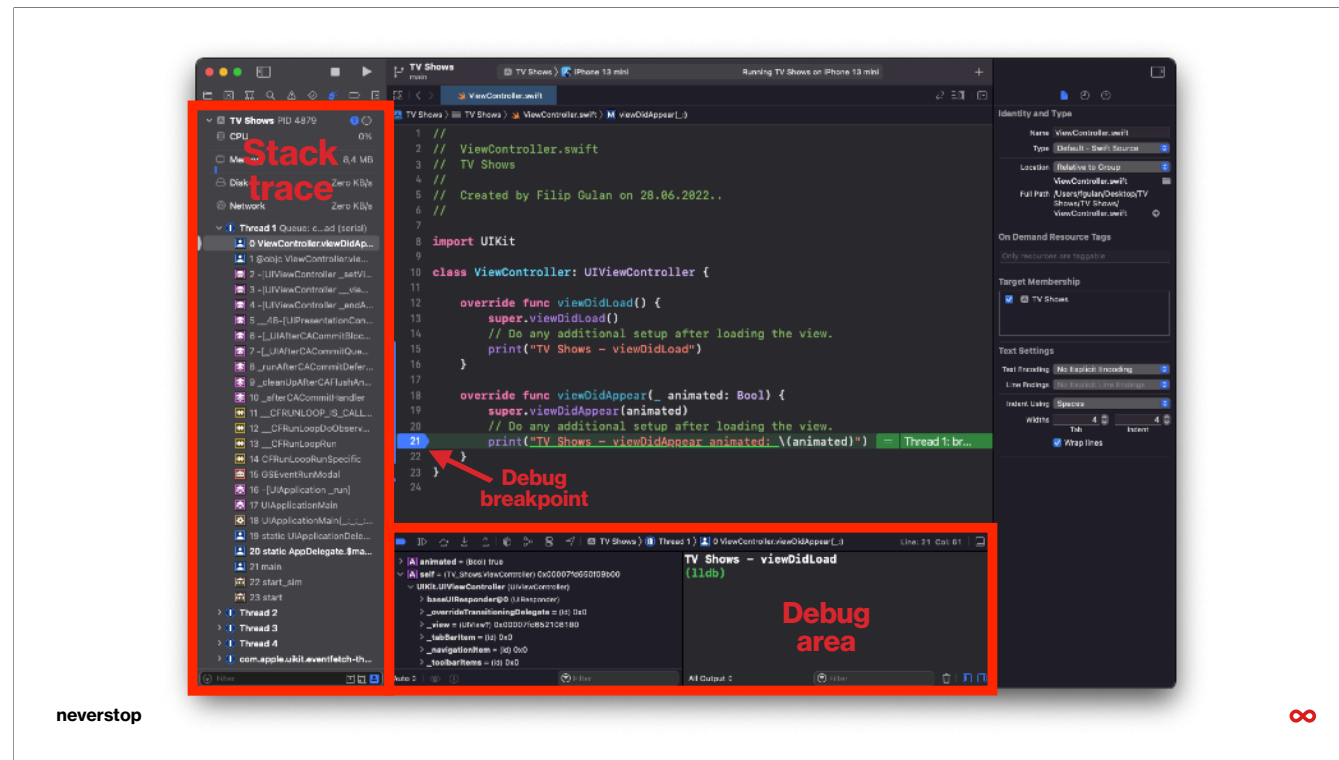
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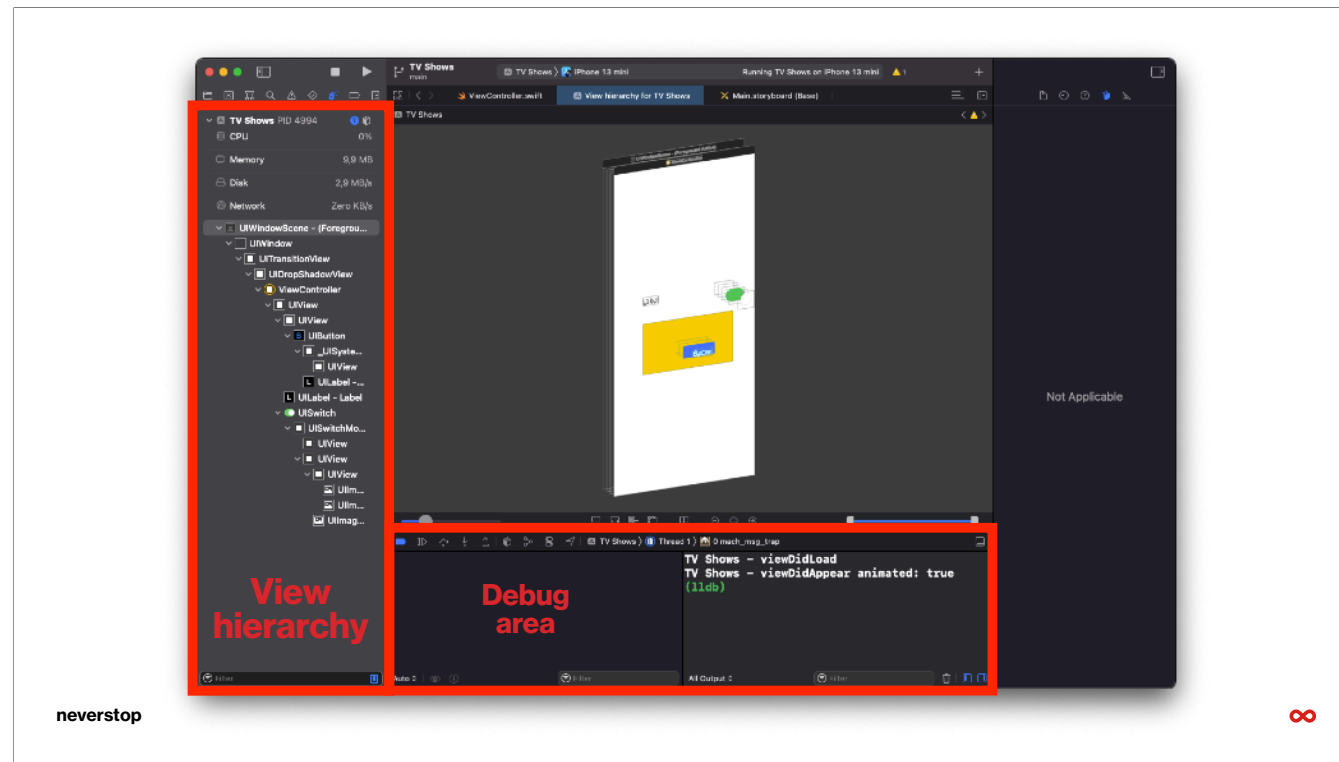
Project
navigator

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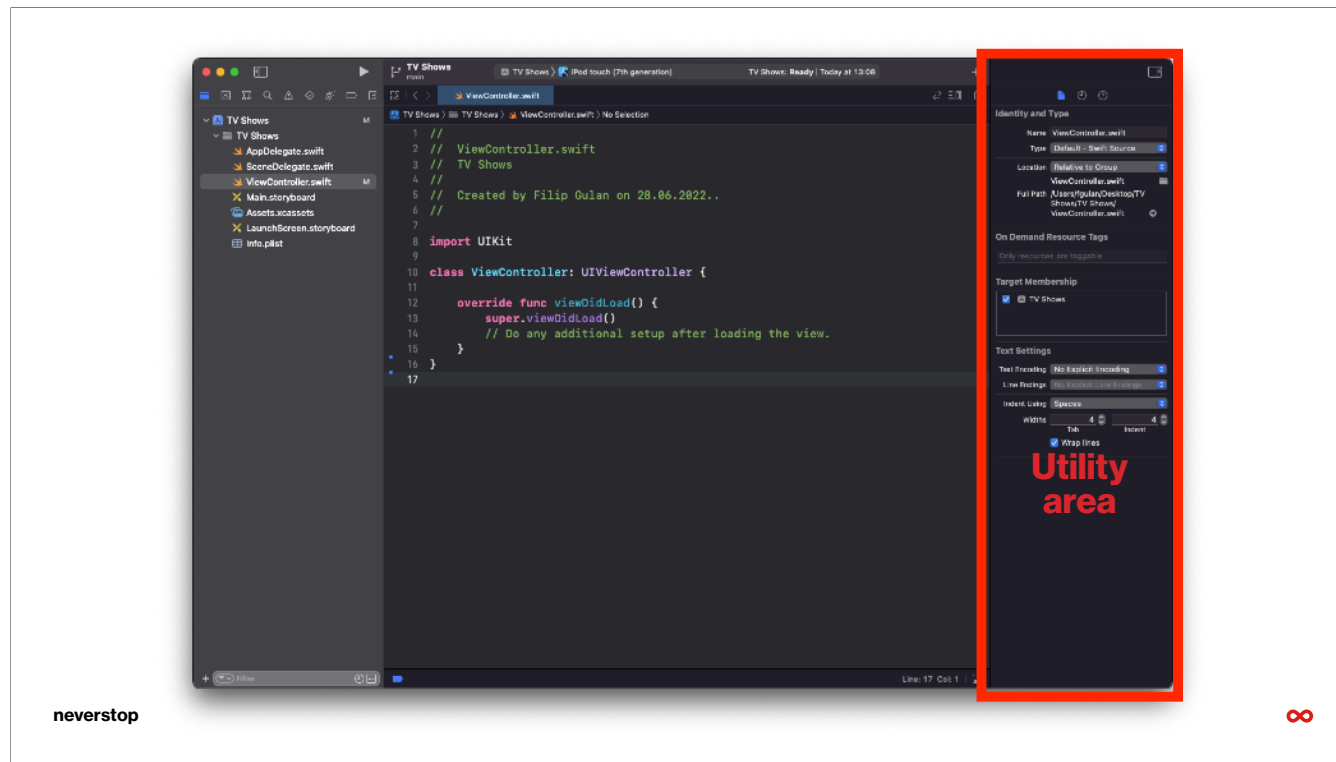




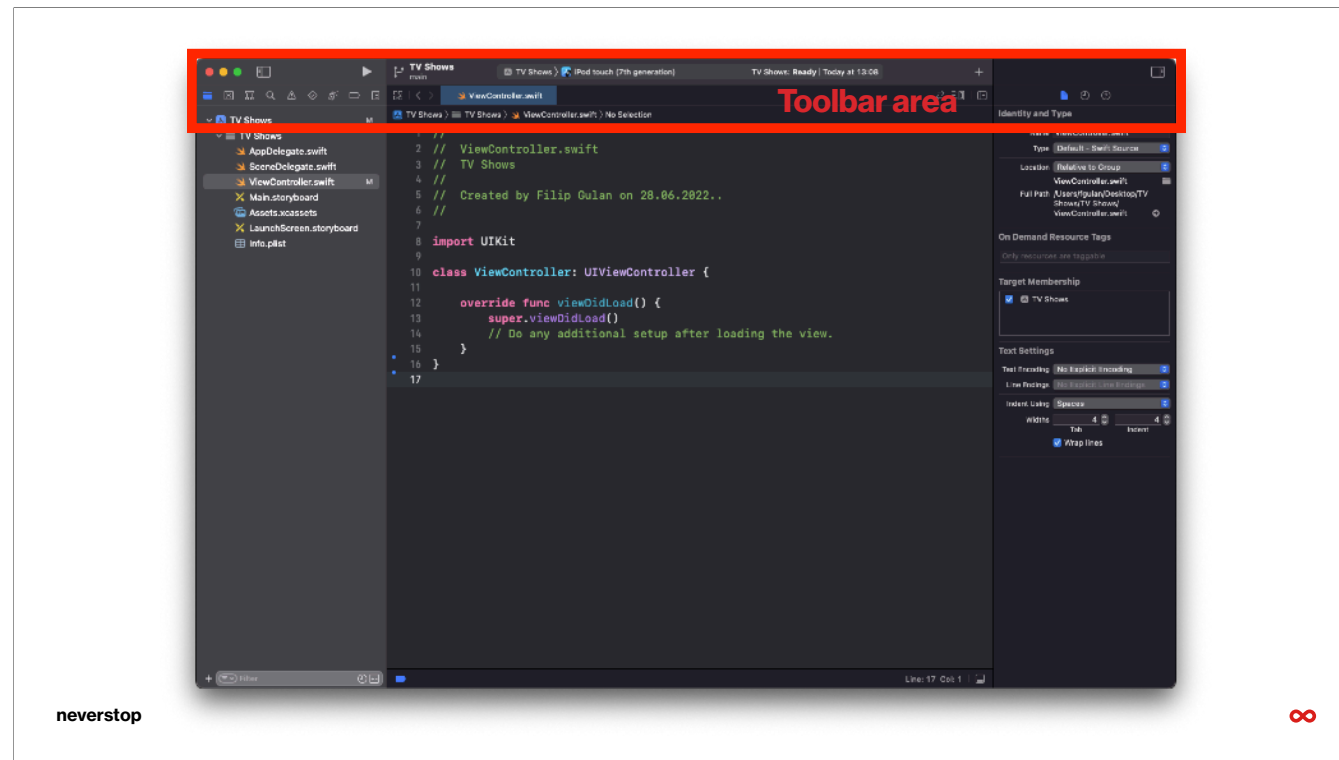
- Xcode will in most cases re-purpose certain parts of the IDE based on the current context (e.g. debugging)
- you will use debug area to print variables, both for its content, type and memory location
- you will use debug area to execute arbitrary code
 - for instance, when you receive Data from API response, you could try and parse it into JSON right there



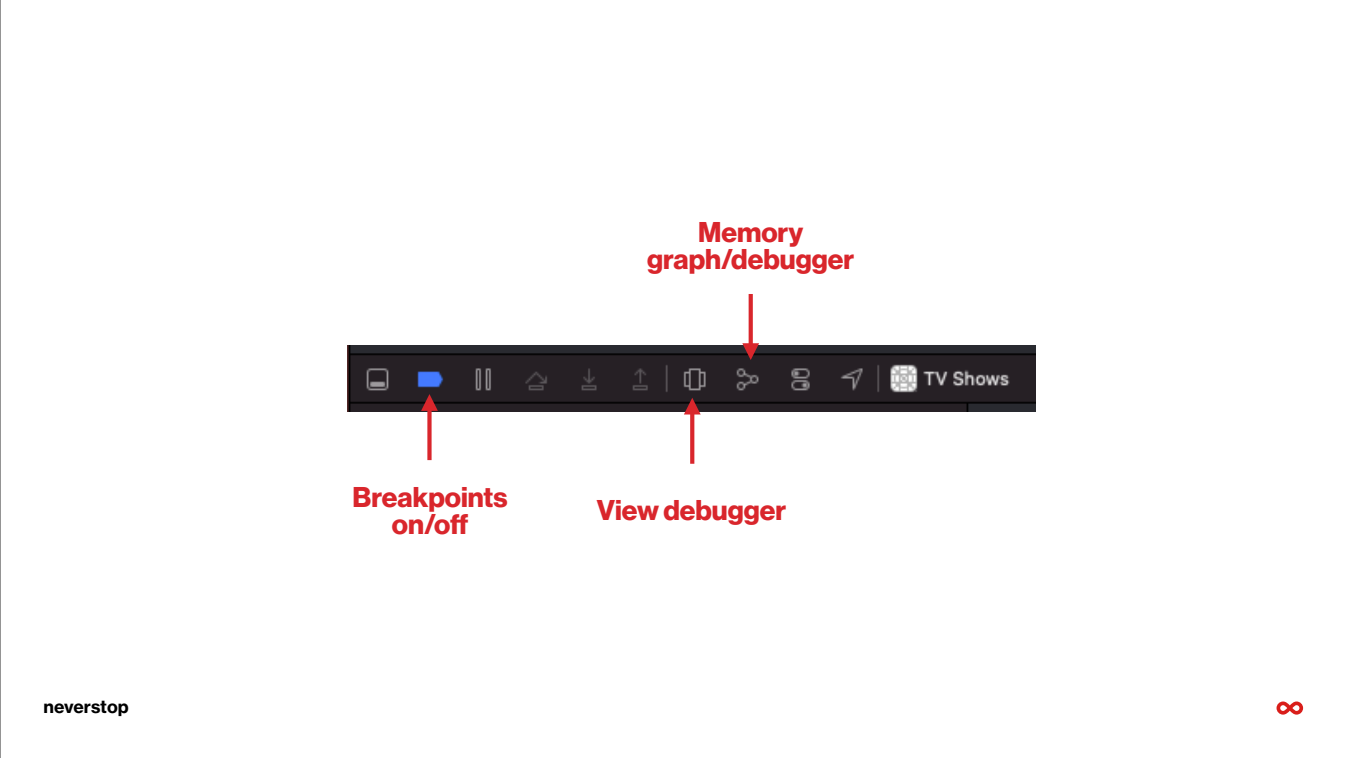
– this is where you will spend most of your time ;)



- here you can see utility area, which is also changing based on the current context



- here you can see main toolbar area, which also has some elements that are changing based on the current context
- on the left
 - you can toggle on/off project navigator
 - run, stop
 - target
 - device
 - simulator or actual device
 - change branch (under TV Shows, main)
- on the right
 - toggle on/off utility area
 - invoke version history
 - preview your UI on different devices



02

Interface Builder

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Also IB - you'll see this often

- Xcode's WYSIWYG view editor
- very useful
- used for editing Storyboards or XIBs
- keywords in code - **@IBOutlet**, **@IBAction**, **@IBDesignable**

Trivia: First ever browser was made in IB, 30 something years ago

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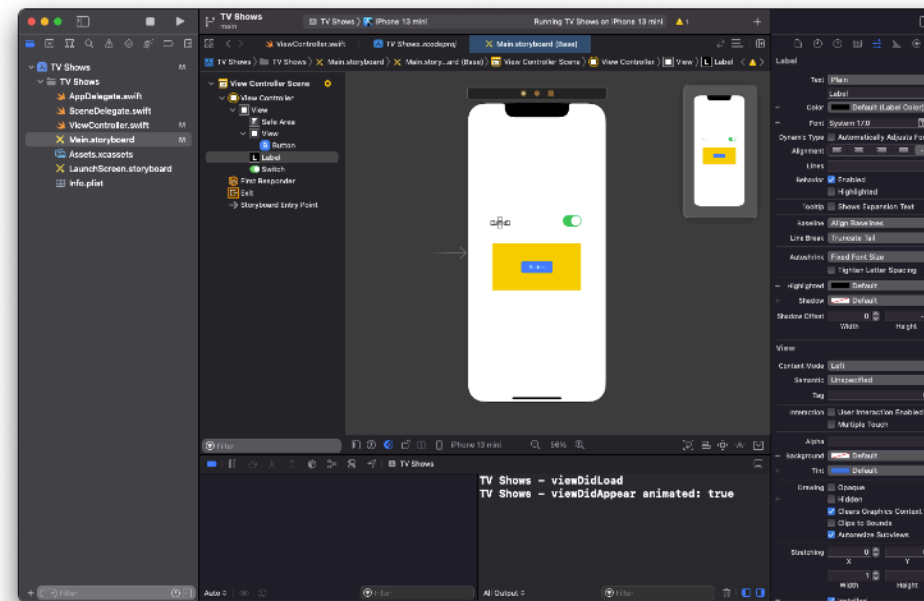
- TRIVIA:

- Netscape navigator, one of the first browsers was made some 30 years ago in IB

- Interface Builder:

- app can have one or more Storyboards, as the name suggests, it should represent a story, like `User Settings` ...
- it is considered to be a bad practice to keep all your views in one Storyboard
- you can mix and match between XIB, Storyboard and Code
- Storyboards has some advantages regarding the XIB and Apple is pushing them as the number one choice

Drag and drop area



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- The most important shortcut here is CMD + SHIFT + L
 - popup from where you could pick predefined UI components
 - also context based
- On the left side
 - you can view the view hierarchy
 - and you can easily select specific component
- On the center
 - drag'n'drop UI components
 - add `auto-layout` constraints
 - preview different device sizes
 - create variations of constraints for certain device sizes
- On the right
 - tweak components and their properties

03

Useful shortcuts

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Shortcuts

- ⌘ + **R** Run project
- ⌘ + ⇧ + **L** Open UI components picker
- ⌘ + **.** Stop project
- ⌘ + **Shift + O** Quick open (very useful)
- ⌘ + **ctrl + →←** Forward and back (history)
- ⌘ + **J** Move focus
- ⌘ + ⇧ + **J** Show file in navigator

04

Simulator

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Virtual device



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- useful for quick testing
- handy for checking out a large number of iOS versions and devices
- has some limitations
- good enough for the scope of the course



Thank you!

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