ITM103 iOS Application Development

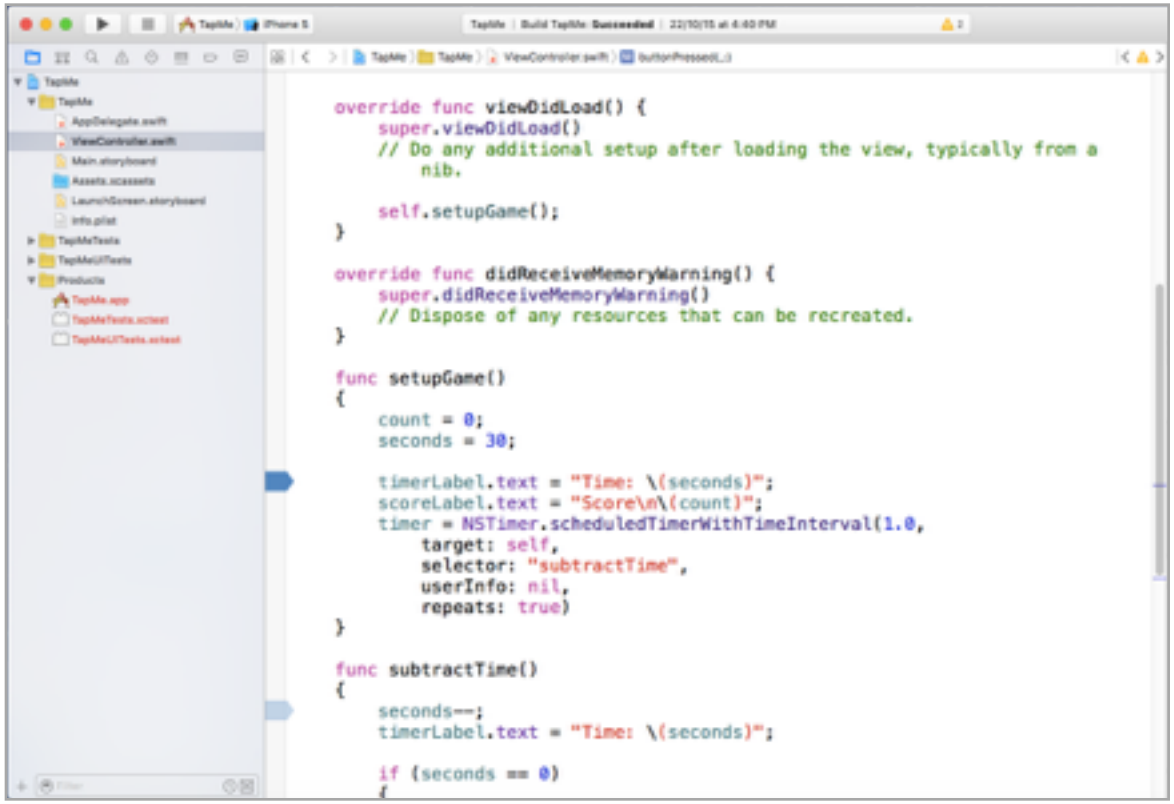
Topic 4: Debugging & Testing Apps

Objectives

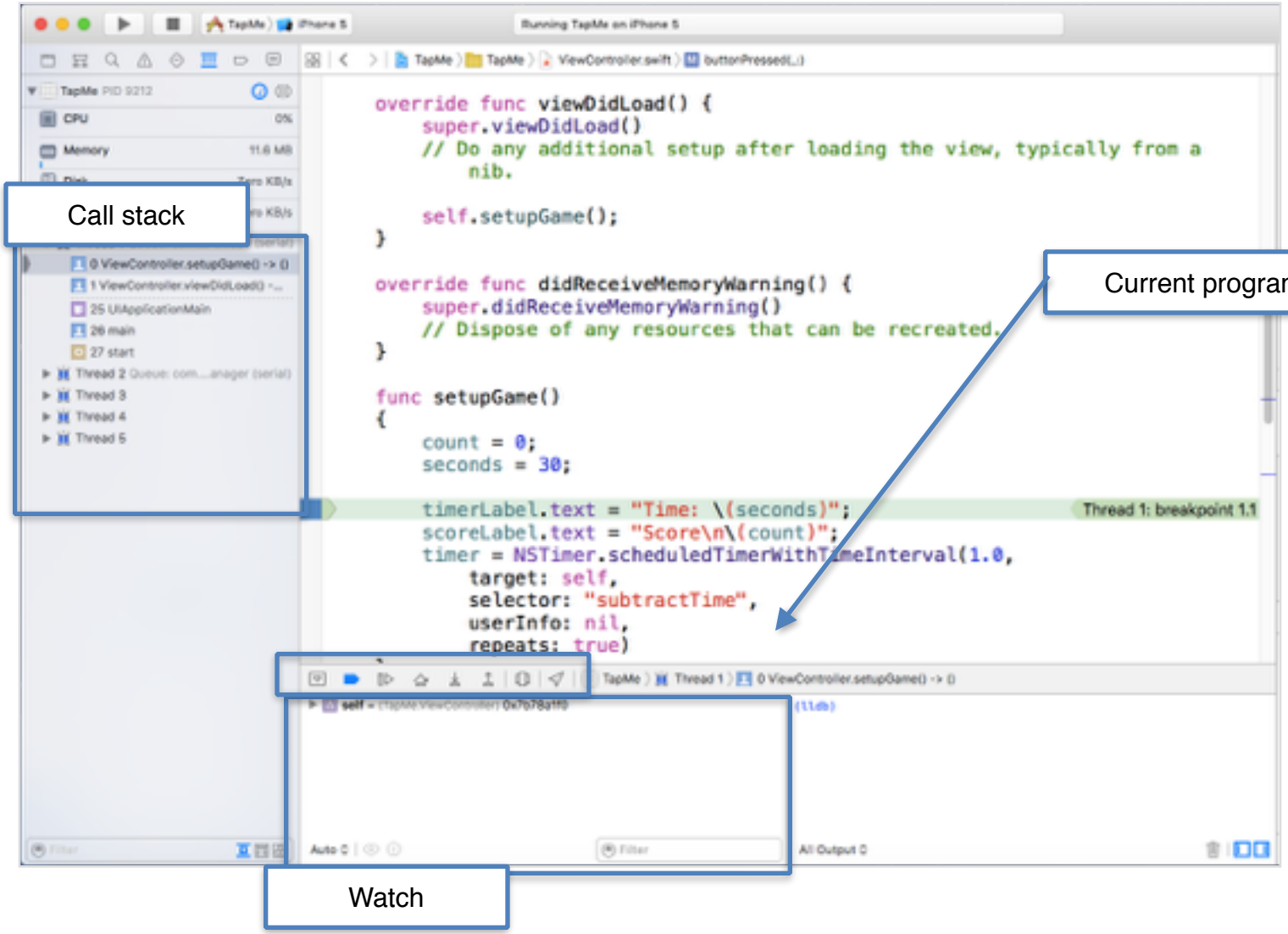
- By the end of the lesson, you will be able to:
  - know how to debug your application
  - use Xcode's visual debugger to step through the execution of apps, monitor the current state of the application and examine the variable values

Using Breakpoints

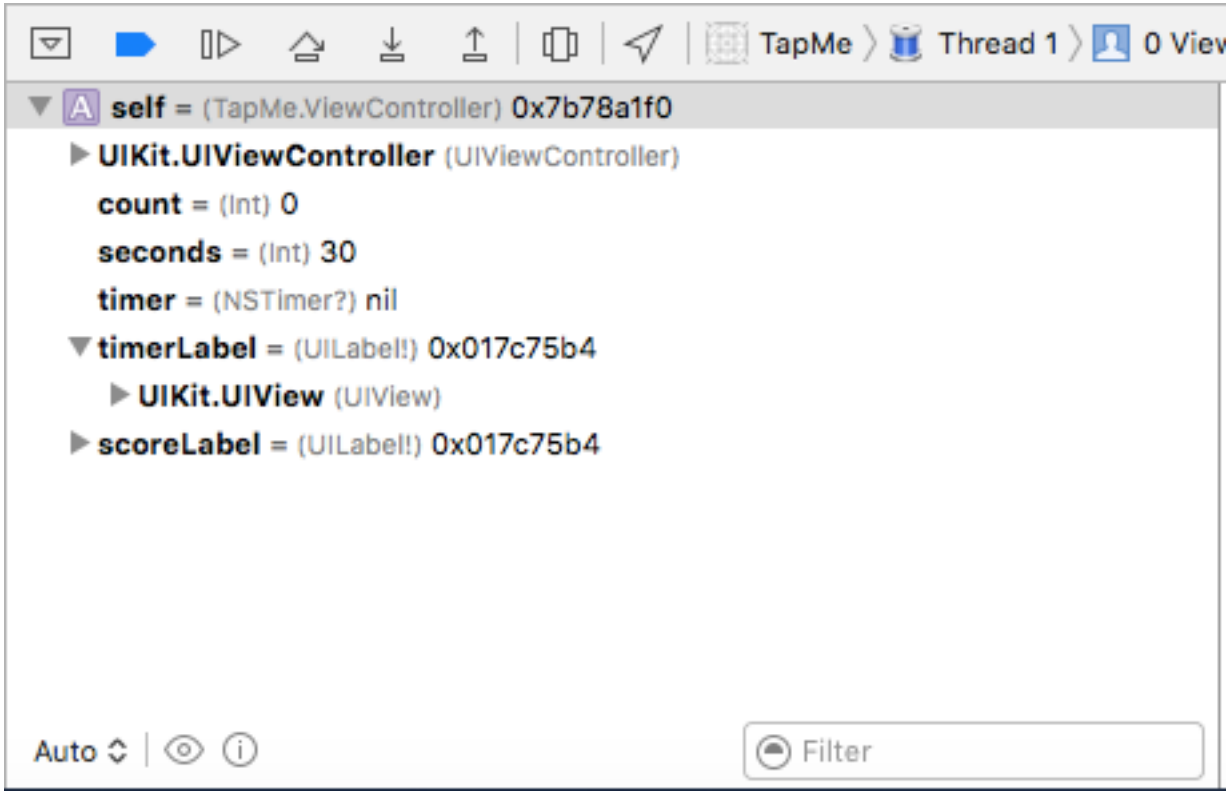
- Breakpoints tell the debugger where to pause.
- By setting a breakpoint on a specific line of code, allows you to execute the subsequent line by line.



Using Breakpoints



Stepping through codes



Note: If you cannot see the variables view, find the  control at the right corner of the console. Click on the center button to see both the console and the variables view.

Stepping through codes

Button	Description
Pause/Continue	***Pauses the application running in the debugger. When the application in the pause state, this button will be "Continue". Continue the application and resumes***
Step Over	***Continues to execute the next line of code. If the next line is a function call, it executes the function and proceeds to the next line.***
Step Into	***Continues to execute the next line of code. If the next line is a function call, it will go into the codes in the function call.***
Step Out	***Processes until the current function exits and stops in the function that called it.***