Mobile and Embedded Computing

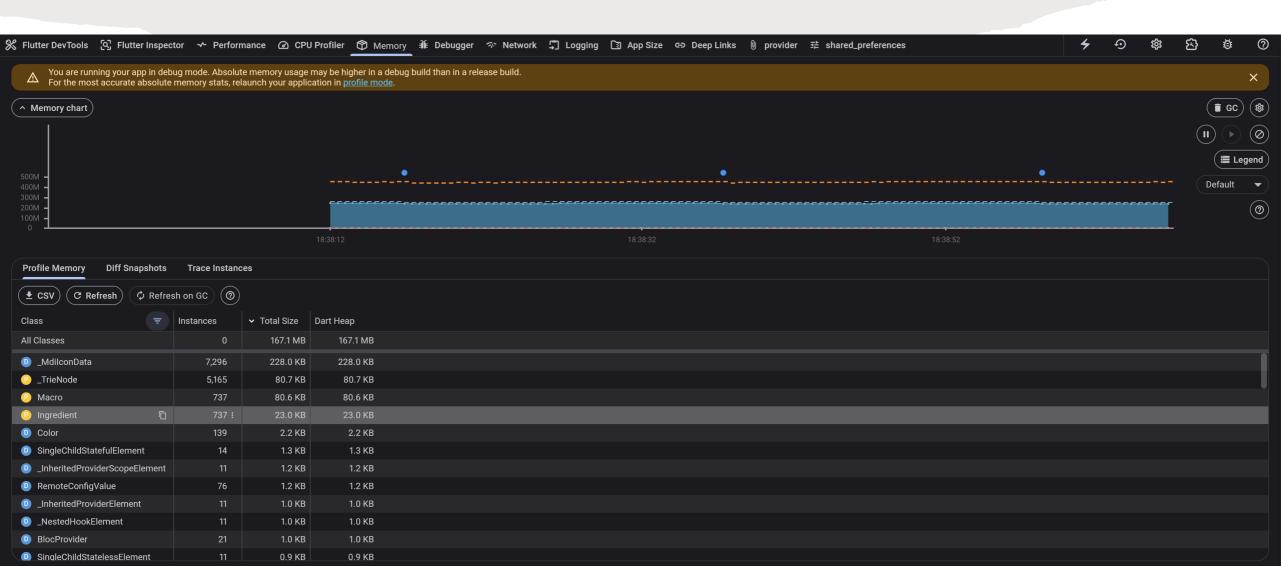
Lecture 4. Debugging & Tools, State management techniques

Flutter Dev Tools

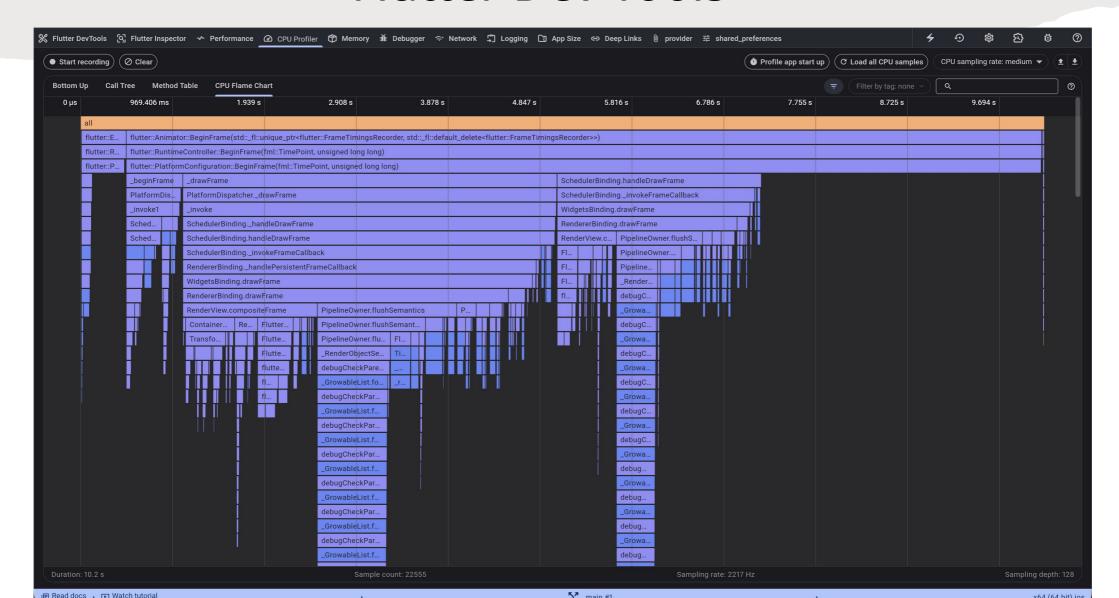
- Usually on http://127.0.0.1:9100/home
- You will need this URL that is printed in the console:



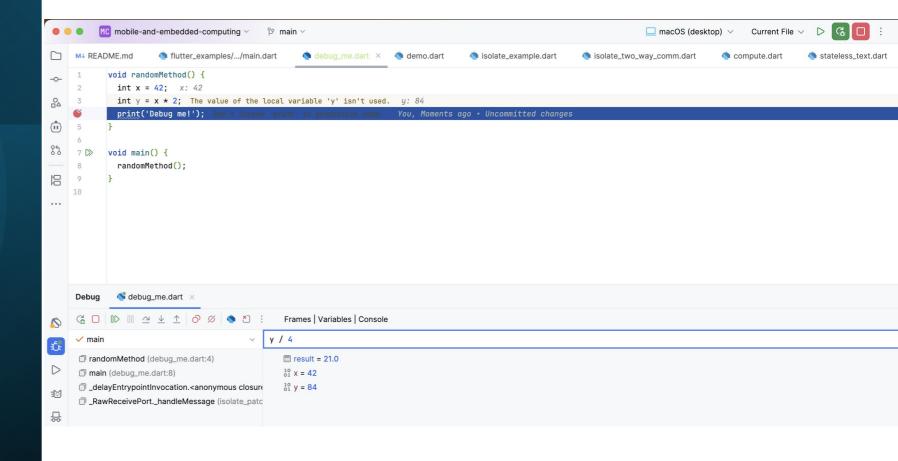
Flutter Dev Tools



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Using a debugger



Step Over – Moves line by line without entering in any method

```
1
        void randomMethod() {
          int x = 42; x: 42
          int y = x * 2; The value of the local variable 'y' isn't used.
          anotherRandomMethod();
          print('Debug me!'); Don't invoke 'print' in production code
        void anotherRandomMethod() {
          String message = "Hello, Debugging!";
          print(message); Don't invoke 'print' in production code.
10
11
12
        void main() {
13
          randomMethod();
14
15
16
          debug_me.dart ×
Debug
                                                 Frames | Variables | Console
main
                    Step Over F8
                                              Evaluate expression (↵) or ad
                                                 _{01}^{10} x = 42
 randomMethod (debug_me.dart:5)
                                                 _{01}^{10} y = 84
 main (debug_me.dart:14)
 _delayEntrypointInvocation.<anonymous closure</p>
```

Step Into – If applied on a method, the debugger will move into that method

```
int x = 42; x: 42
         int y = x * 2; The value of the local variabl
         anotherRandomMethod(); You, 6 minutes αgo
         print('Debug me!'); Don't invoke 'print' in p
       void anotherRandomMethod() {
         String message = "Hello, Debugging!";
         print(message); Don't invoke 'print' in produ
10
11
12
13
       void main() {
         randomMethod();
14
15
16
         debug_me.dart ×
Debug
Frames
                                          Evaluate ex
main
                    Step Into F7
                                             _{01}^{10} x = 42
 randomMethod (debug_me.dart:4)
 main (debug_me.dart:14)
                                             _{01}^{10} y = 84
 _delayEntrypointInvocation.<anonymous closure</p>
 _RawReceivePort._handleMessage (isolate_patc
```

Step Out – Goes out of a method back to the previous one

```
void randomMethod() {
        int x = 42; x: 42
        int y = x * 2; The value of the local variable 'y' isn't used. y: 84
        anotherRandomMethod();
        print('Debug me!'); Don't invoke 'print' in production code.
                                                                     You, 4 minutes
      void anotherRandomMethod() {
        String message = "Hello, Debugging!";
        print(message); Don't invoke 'print' in production code.
      void main() {
        randomMethod();
        debug_me.dart ×
ebug
Frames | Variables | Console
                                         Evaluate expression (➪) or add a watch (û*
                       Step Out ☆F8 ~
/ main
                                            _{01}^{10} x = 42
randomMethod (debug_me.dart:5)
main (debug_me.dart:14)
                                            _{01}^{10} y = 84
__delayEntrypointInvocation.<anonymous closure</p>
_RawReceivePort._handleMessage (isolate_patc
```