

From Yesterday

- **File.open** vs **File.new**
 - With no associated block, **open** is a synonym for **File.new**. If the optional code block is given, it will be passed *file* as an argument, and the file will automatically be closed when the block terminates. In this instance, **File.open** returns **nil**.

```
- File.open( fileName, aModeString="r" ) { | file |  
  block } -> nil
```
 - Use **file.close** to otherwise close file

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- Regular Expression performance?
 - Option 1: build finite state machine
 - Relies on the construction of DFA – $O(2^m)$
 - Running time of $O(n)$
 - Option 2: backtracking
 - Build solutions and discard along the way
 - Runtime is exponential
 - Greater flexibility and expressive power (back references)
 - Option 3: combine 1 and 2