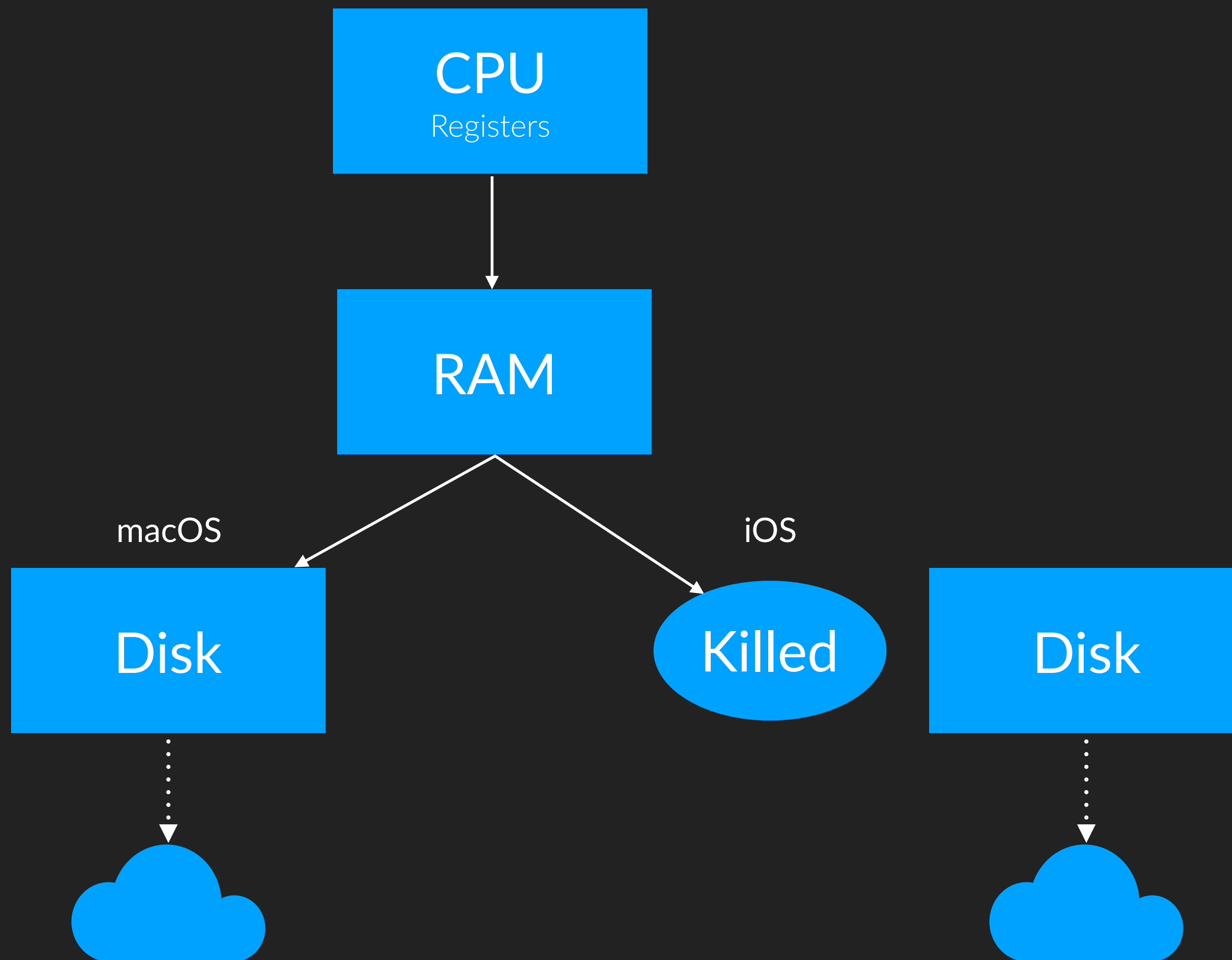# When the Last Byte Is Taken
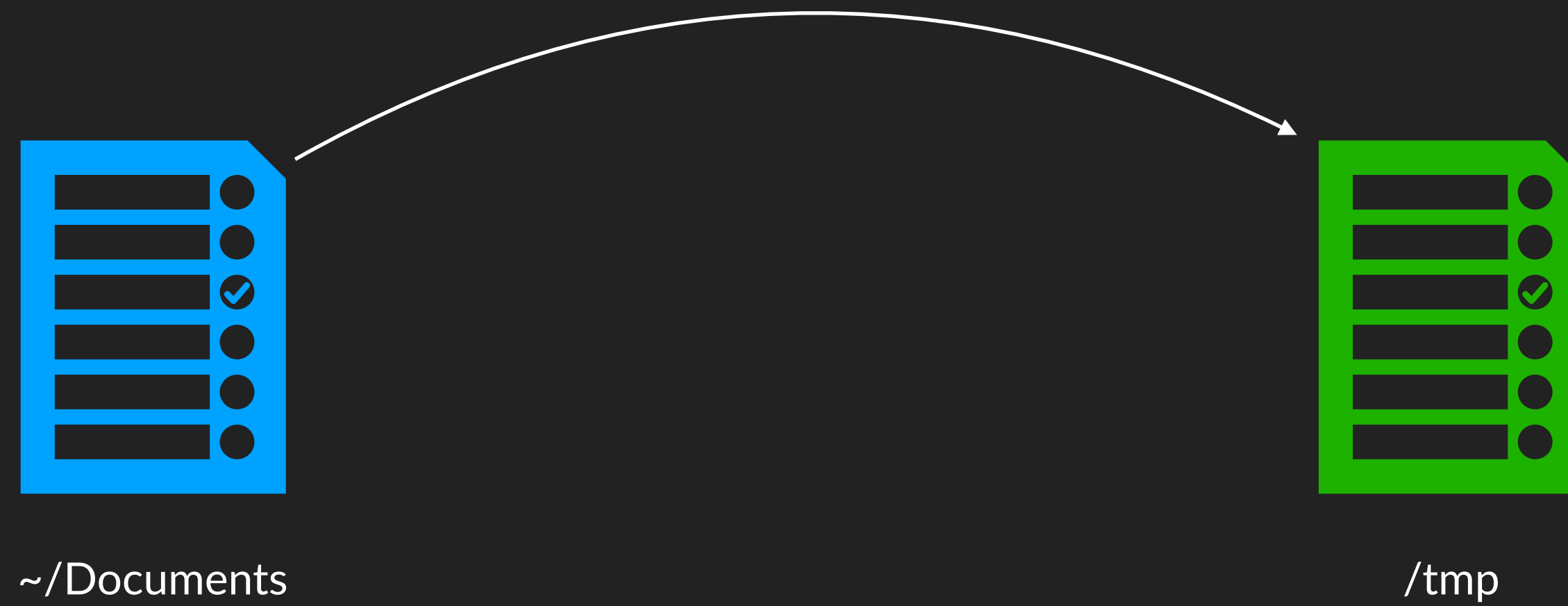
What Can Go Wrong When You're Running out of Disk Space

HIERARCHY OF STORAGE

NORMAL SAVING PROCESS

~/Documents

/tmp

WHAT IF NO STORAGE IS AVAILABLE?

~/Documents

/tmp
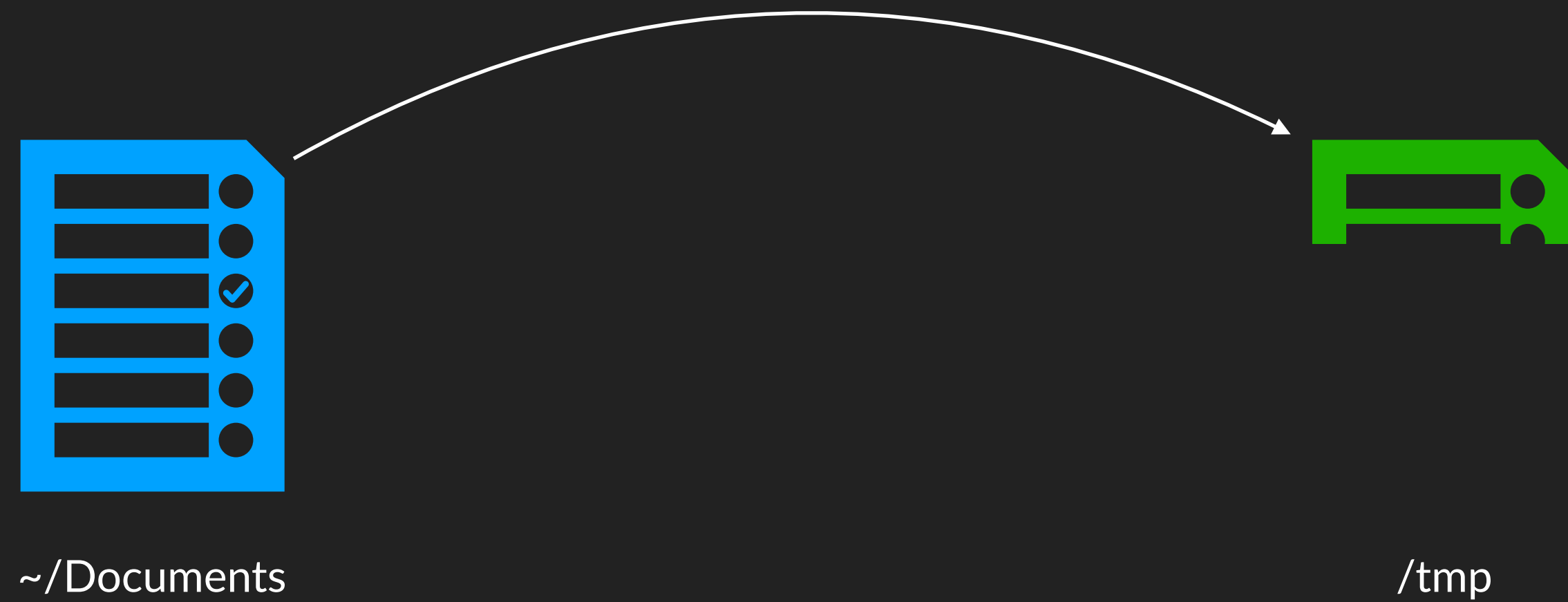
ERROR HANDLING

▸ `FileHandle.write(_:)`

  ▸ Throws exception

▸ `FileManager.createFile(atPath:contents:)`

  ▸ Returns false

▸ `FileManager.createDirectory(at:withIntermediateDirectories:)`

  ▸ Throws Swift error / NSError pointer

SIMULATING LOW STORAGE?

▸ Create small virtual disk

▸ Mount as the app's documents directory for the iPhone simulator

▸ Fill disk image with data to cause out of storage situations

▸ Instructions:

   ▸ https://stackoverflow.com/a/27821104/3969089

SIDESTEPPING THE PROBLEM

▸ If atomicity is not needed, override file instead of creating a new file

▸ If low storage situations are to be expected, consider keeping temporary data in main memory instead of writing it to disk

THANK YOU

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