Drunken Master (1978)

Out-Of-Order (except not literally)

- Instruction scheduling

- Registers are fake now*

  - Files, queues, writeback, …

- Branches are fake*

  - We put a neural network in your CPU to make if statements faster (yes)

Phantom Memories

The L1i Cache (and the uOp cache, and …)

- "Code" is "read" from "memory" and executed "in-order"

  - "Read" except for when it's in the uOp cache

  - "Memory" except for when it's in L1i

  - "In-order" if you're a TV remote