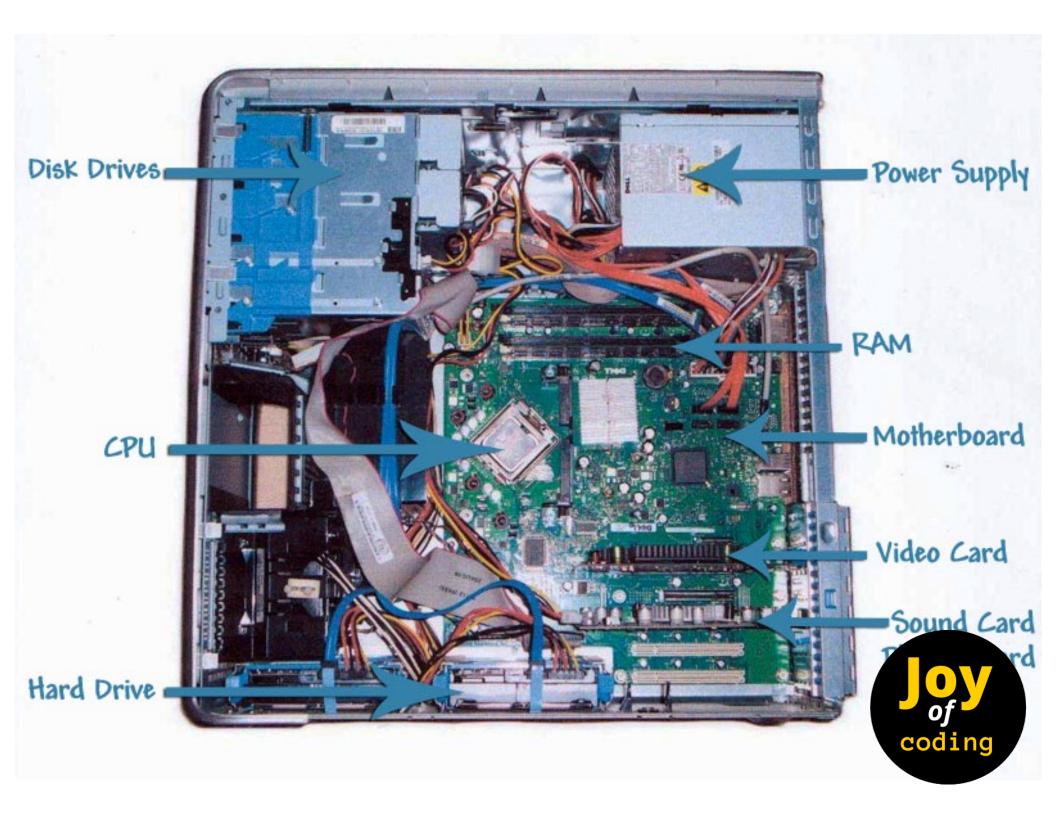
How does a computer work? Introduction to computer hardware

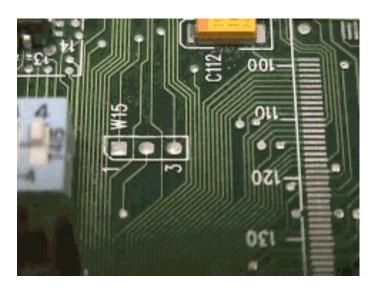
When programming a computer, it helps to have a basic understanding of the underlying hardware. Where do variables get stored? Where are functions or loops executed?

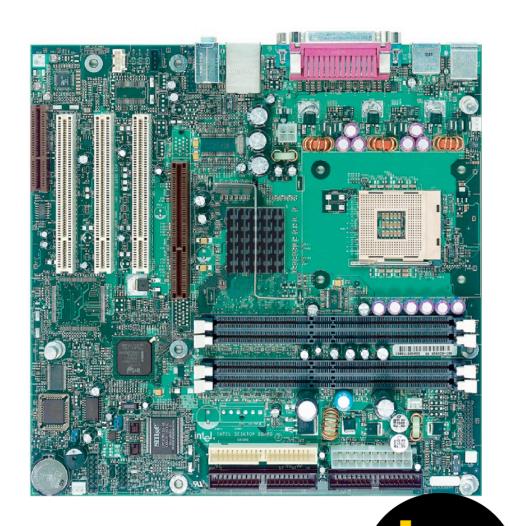




Motherboard

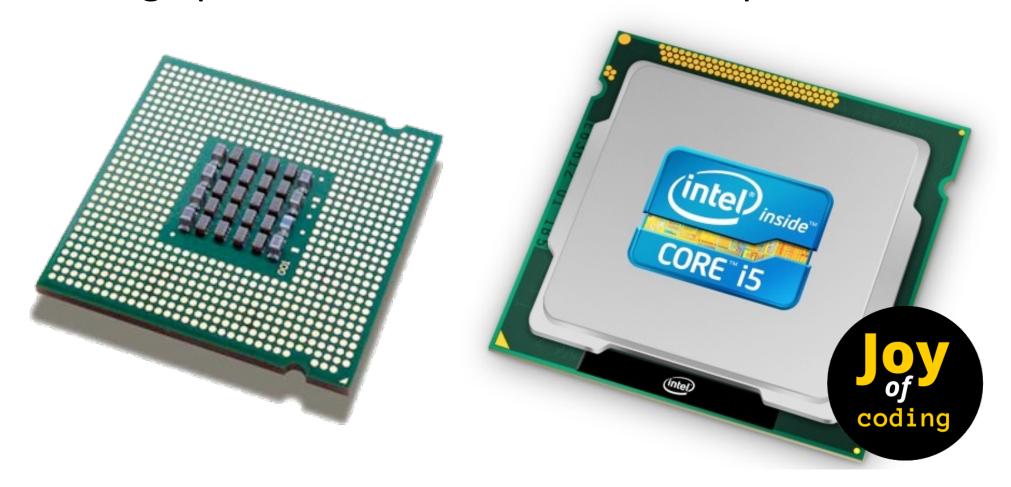
- Houses the computer components
- Connects them via a bus:





Processor (aka CPU)

- Executes program instructions
- e.g., performs arithmetic, runs loops



Memory

- Stores data & program instructions while programs execute
- E.g., stores variables and lists

Volatile: contents lost when computer turned off



Hard drive

Non-volatile:
 contents persist
 (saved) even
 when computer
 turned off

 Stores data and programs when not running



Programming & Hardware

