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Operating Systems

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- What are the two big things OS handle for a user?
- Abstraction and Resource Management!

Resource Management

- Processing time (CPU, GPU)
- Physical Memory (RAM)
- Persistent Memory (HDD, SSD)
- Network Connection (Wifi, ethernet, bluetooth)

Abstraction

- Exclusive resources
 - We think we have all the CPU and memory!!
- Handles Devices
 - Webcam, mic, printer, etc.
- Security
 - Need certain privileges to do some things

System Calls and Using the OS

- a **system call** is the programmatic way in which a computer program requests a service from the kernel of the operating **system** it is executed on. A **system call** is a way for programs to interact with the operating **system**.