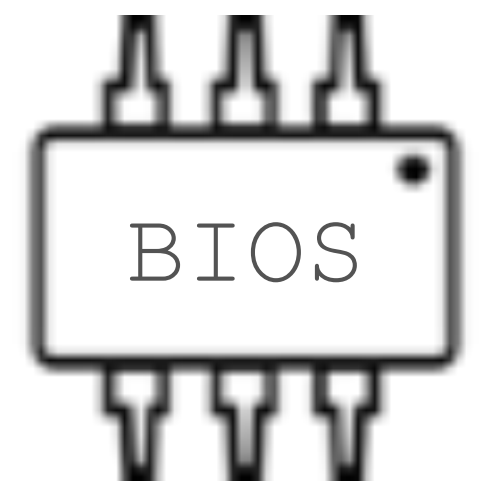
Bootstrapping

I/O

0x FF FF FF FF

0x 00 00 00 00


BIOS

BIOS

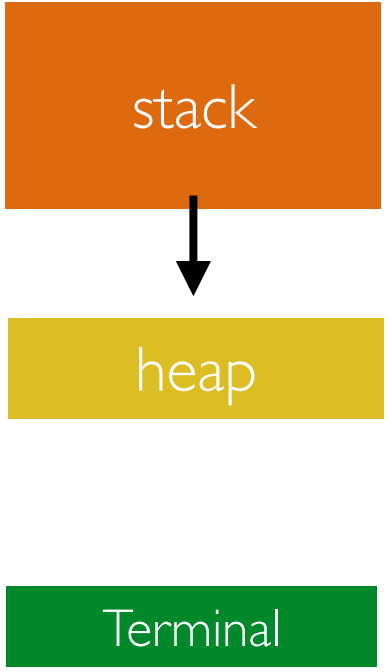
Step 1: Power -on! The CPU starts executing code contained in the **BIOS** (basic input/output system)

Bootloader

Step 2: the BIOS loads the **bootloader** from a device (hard-drive, USB, network ...) based on the configuration

Kernel

Step 3: the bootloader loads the OS kernel in RAM

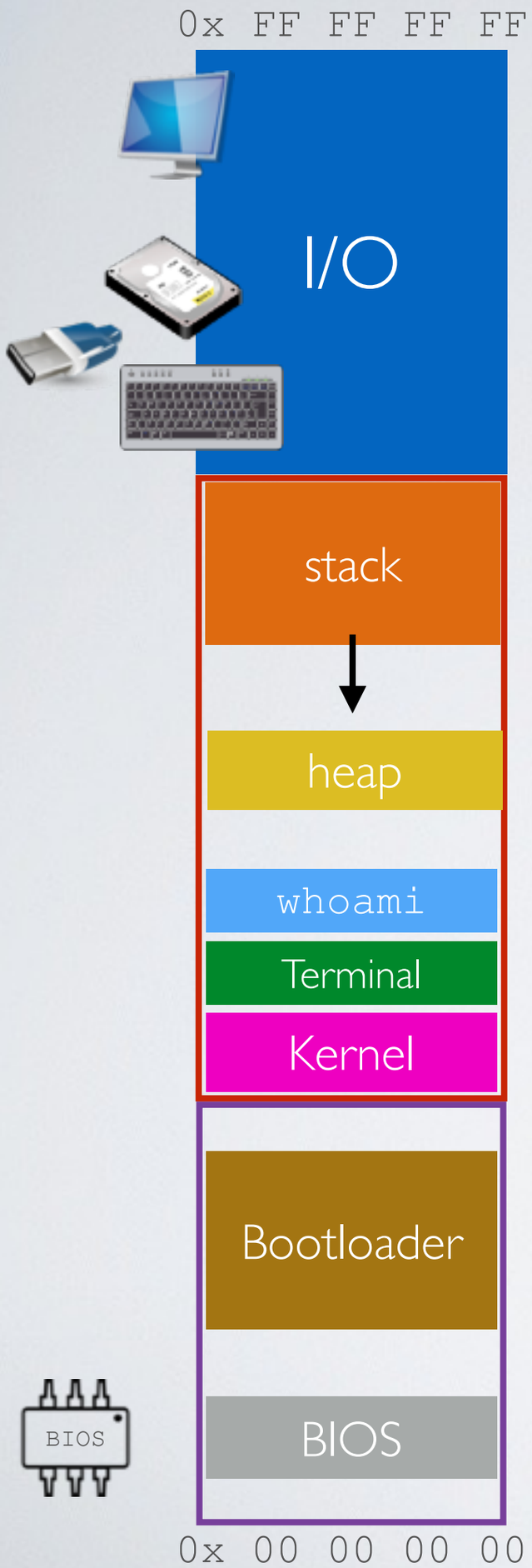


Step 4: the kernel starts the user-interface program (e.g `Bash` terminal)

Step 5: using the terminal, users can execute programs (e.g Bash terminal) ... and repeat

```
whoami
```

Bootstrapping



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Step 1: Power -on! The CPU starts executing code contained in the **BIOS** (basic input/output system)

The need for **concurrency**