

Botstrapping

I/O

OXFORD

0x0000000000000000

the 'information' and 'knowledge' components of the model. The model is based on the following assumptions:

1. The model is based on the assumption that information and knowledge are not static entities, but are dynamic and constantly changing.
2. The model is based on the assumption that information and knowledge are not isolated entities, but are interconnected and interdependent.

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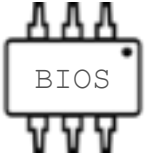
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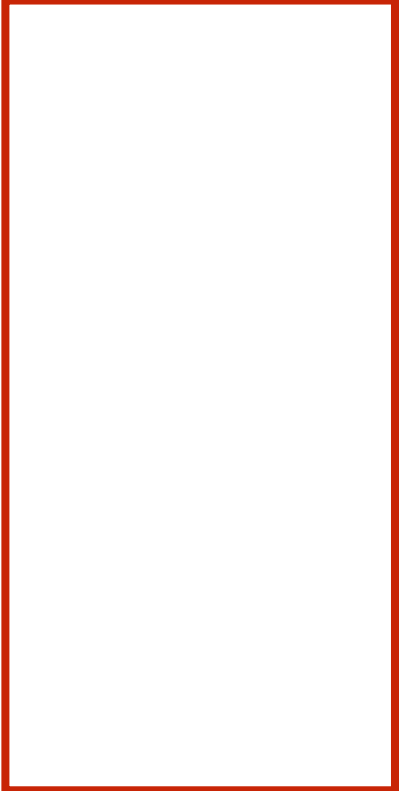
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BIOS

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



stack

The diagram consists of three vertically stacked rectangular boxes. The top box is orange and labeled 'stack'. A black arrow points downwards from the bottom center of the orange box to the top center of the middle box. The middle box is yellow and labeled 'heap'. The bottom box is green and labeled 'Terminal'.

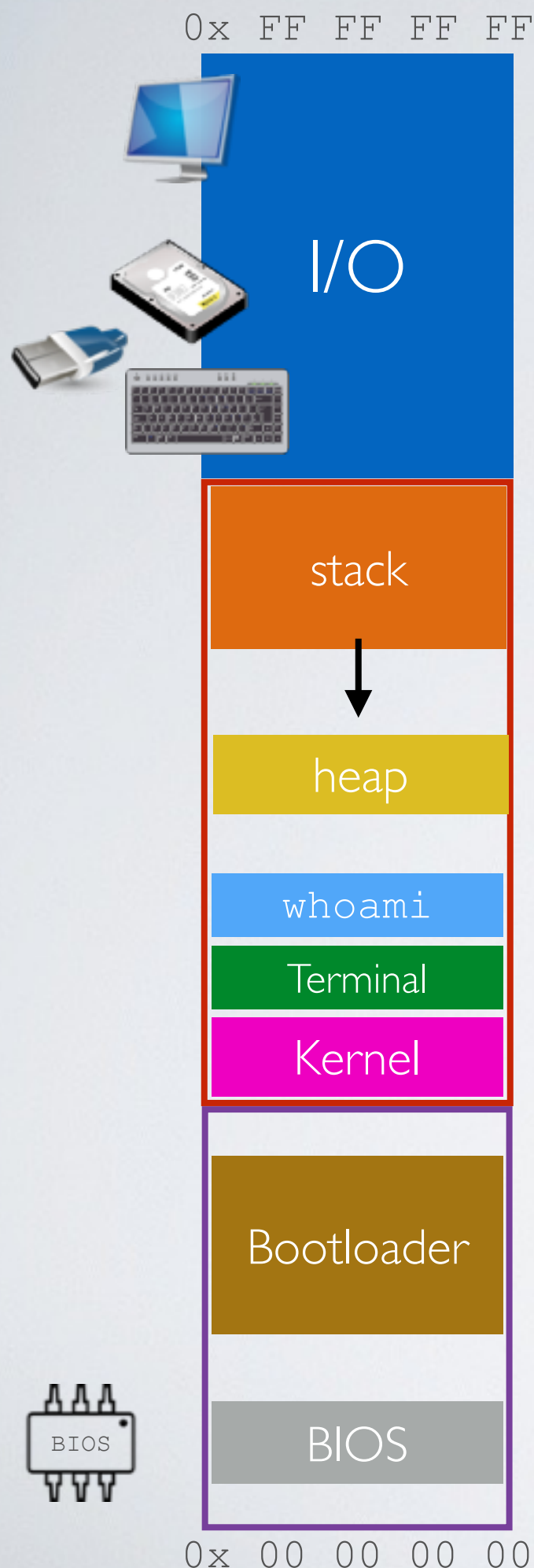
heap

Terminal

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 3: the bootloader loads the OS kernel in RAM

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The need for **concurrency**