



Botstrapping

I/O

OXFORD

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the 1990s, the number of people in the UK who are employed in the public sector has increased by 1.5 million (1990–2000) and the number of people in the public sector has increased by 2.5 million (1990–2000) (Department of Health 2001).

There is a growing emphasis on the need to improve the quality of care in the public sector. This has led to a number of initiatives, including the introduction of the NHS Act 2003, which sets out the framework for the NHS, and the introduction of the NHS Constitution, which sets out the principles and values of the NHS.

The NHS Act 2003 also sets out the objectives of the NHS, which are to improve the quality of care, to reduce the waiting time for treatment, and to improve the efficiency of the NHS.

The NHS Constitution also sets out the principles and values of the NHS, which are to be patient-centred, to be fair, to be efficient, and to be transparent.

The NHS Act 2003 and the NHS Constitution are the two main pieces of legislation that govern the NHS. They set out the framework for the NHS and the principles and values that should guide the NHS.

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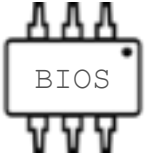
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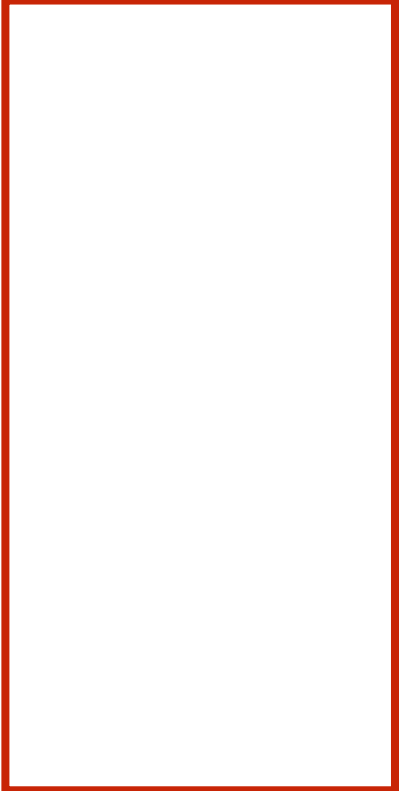
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BIOS

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 'stack' 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'.

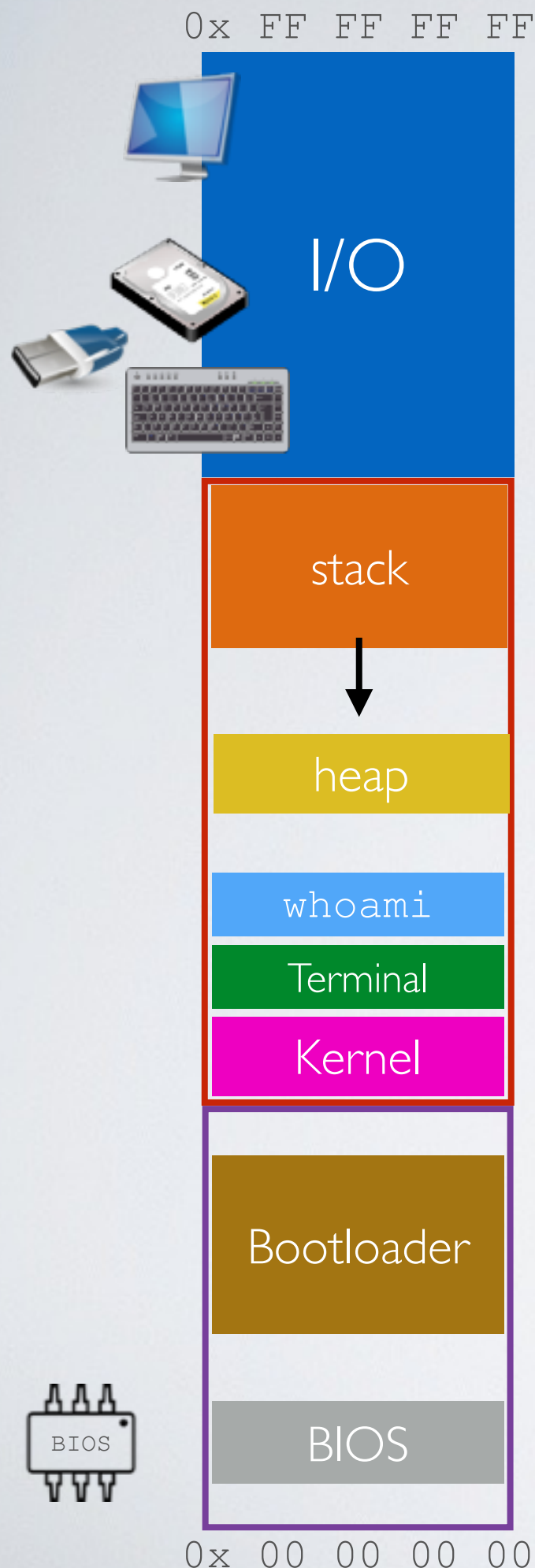
heap

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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The need for **concurrency**