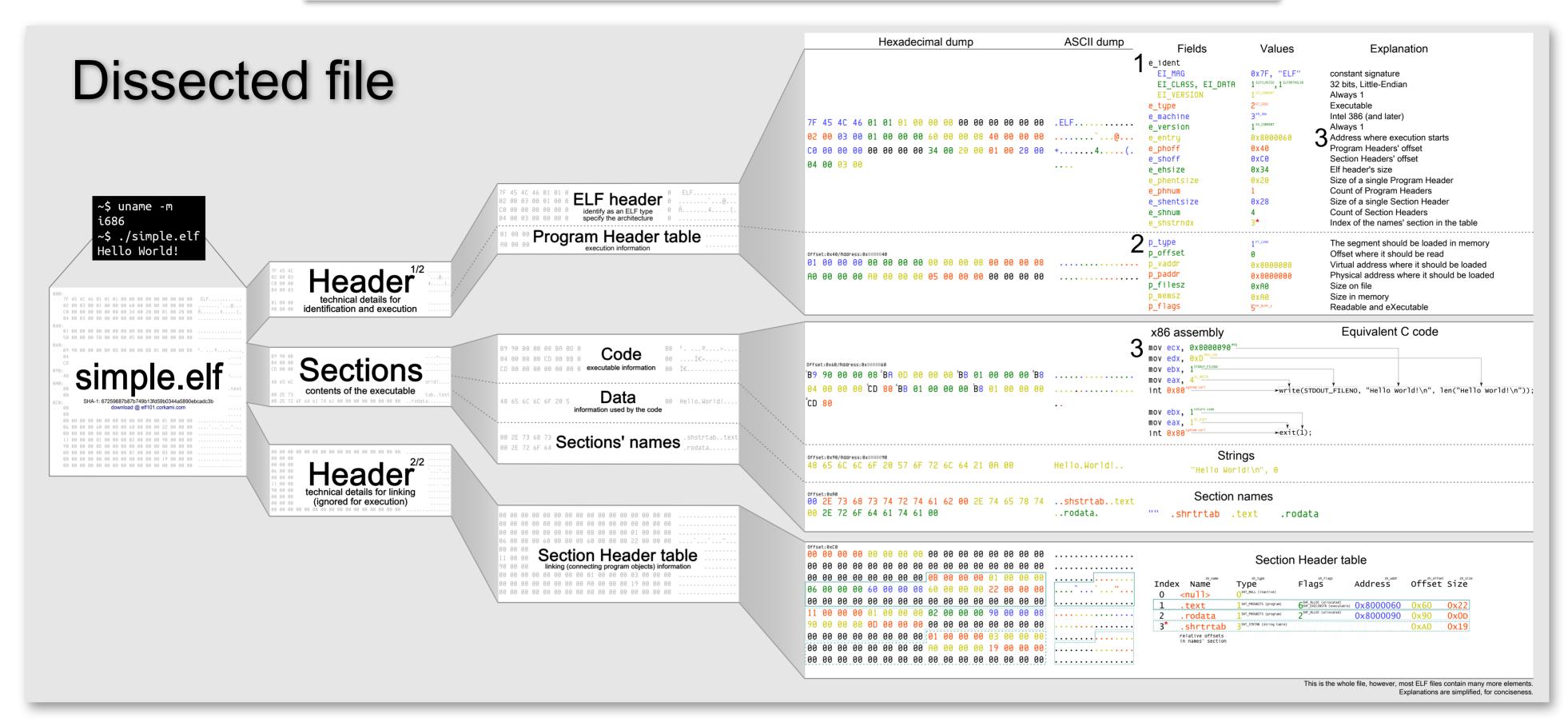
## ELF<sup>101</sup> a Linux executable walkthrough Ange Albertini Corkami.com

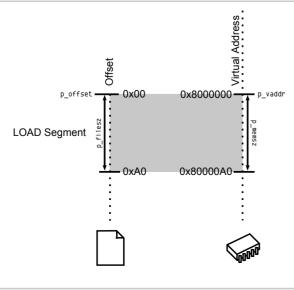


## Loading process

1 Header the ELF header is parsed the Program Header is parsed according to its segment(s) (Sections are not used)

2 Mapping

the file is mapped in memory



## 3 Execution

Entry is called

Syscalls are accessed via:

- Syscall number in the EAX register
- calling Interrupt 0x80

## Trivia

The ELF was first specified by U.S. L. and U.I. for UNIX System V, in 1989

The ELF is used, among others, in:

- Linux, Android, \*BSD, Solaris, BeOS
- PSP, Playstation 2-4, Dreamcast, GameCube, Wii
- various OSes made by Samsung, Ericsson, Nokia,
- microcontrollers from Atmel, Texas Instruments