## Operating systems and their parts

### Qunix

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## Part I Intro

Operating systems are like fractals. The deeper you go, the more you are forced to know. Anyway, there's nothing more pleasant than reaching the real end and realizing you are at the very bottom of the unimaginable a(by)ss........

# Part II A Little OS

## Part III The Parts

### 1 Filesystems

This history is prosaic and too applicative. FS is not OS, and therefore there is a simple mechanism of adding new FS in Linux kernel. Read code, write code, execute code. No "AAAAAAAAAAAH MY HARDDISK HAS BEEN UNEXPECTEDLY REFORMATTED NOOOOO". Don't write OS, write FS.

How to write FS? We interpret it as "how to register new fs in linux kernel and not to cry (as possible)". There are two chairs, and we use dynamic linking because most likely your laptop is a trash already and we don't want to clutter it up any further. So, the first part of question is "how to write a kernel module".

To write a kernel module, we just need a simple Makefile, which specifies our sources and then transfer control to a some of kernel Makefiles written exactly for making modules. Google this step yourself.

As for the sources, there are also some rules of writing FS. You need to specify a chain of functions doing at least mounting and unmounting. Then, you can check kernel log and see if it works. The working (for me) example is in my repo.