



BasicOS

Overview

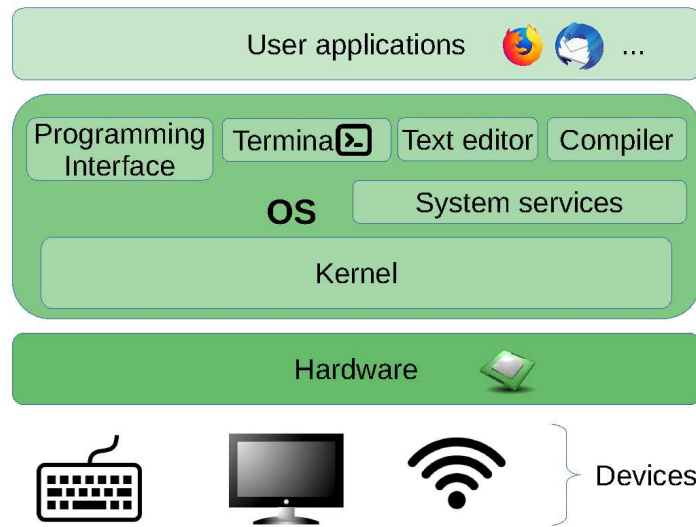
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<https://perso.telecom-paris.fr/apvrille/BasicOS/>

Where Do You Find Operating Systems?

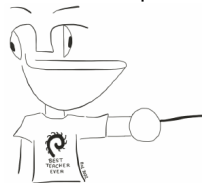


System Architecture



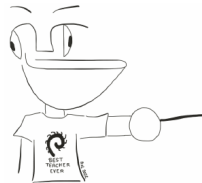
Objectives

- Be able to understand the **main features** offered by of Operating Systems for computers



Fundamental aspects of Operating Systems

- Be able to **efficiently use features** of Operating systems



API of Operating Systems

- Application Programming Interface
- In C

General Organization

C and Operating Systems (OS)

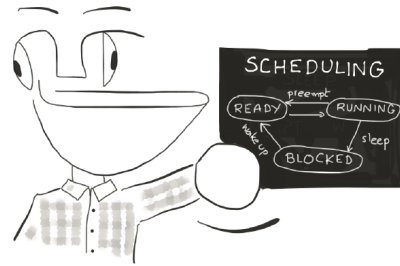
- Theoretical courses: ~6h
- Lab sessions: ~8h

Project

- Remote file storage
- ~10h of supervised work + personal work

Grading

- Project: 30% (report + code)
- Exam: 70% (quiz)



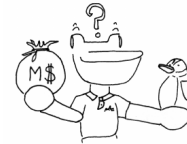
Personal Work

Estimation

- Practice of C language (~4h)
- Labs (~4h)
- Project (~10h)
- Getting ready for the exam (~6h)



Operating Systems: Outline



Sessions

- Introduction to OS and C (lectures and labs)
- Processes and memory management (lecture and lab)
- Communication between processes (lecture)
- Filesystems (lecture)

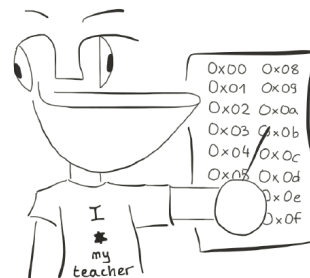
Project: creating your own file repository

- Group of 4 students
- 4 sessions of supervised work

References: Website of the Course

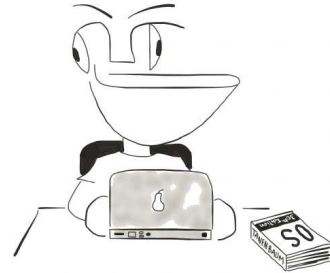
<https://perso.telecom-paris.fr/apville/BasicOS/>

- Schedule
- Sessions (slides and corresponding labs)
- Project
- Links to other interesting websites
- Recommended books (see next slide)



References: Books

- Operating systems, Tanenbaum, ISBN 0-13-638677-6
- Modern Operating Systems, Tanenbaum, ISBN 0-13-031358-0
- Applied Operating System Concepts, Silberschatz, ISBN 0-471-36508-4
- Many others recommended books and links on the web site!



Questions?

