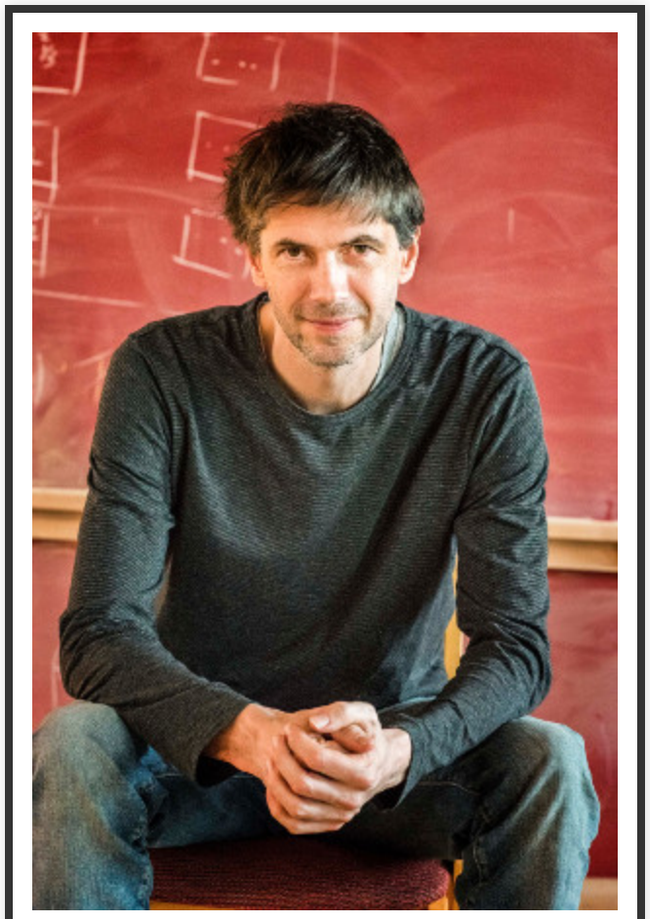
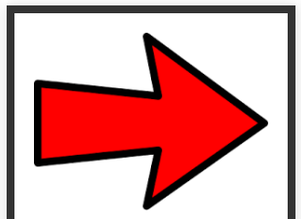
DM510 OPERATING SYSTEMS

Course Introduction

SUBSTITUTE TEACHER - DM510





SUBSTITUTE TEACHER - DM510

- **2019** Jacob Aae Mikkelsen
- **2018** Daniel Merkle
- **2017** Jacob Aae Mikkelsen
- **2016** Jacob Aae Mikkelsen
- **2015** Daniel Merkle
- **2014** Jacob Aae Mikkelsen

WHOAMI

- **Name:** Jacob Aae Mikkelsen
- **Nick:** Kokken (Educated chef many years ago)
- **Education:** Ms. in Computer Science from IMADA (jan. 2010)
- **Experience:** Esoft, TV-2, Gennemtænkt IT, Erhvervsstyrelsen through NineConsult A/S, Senior Engineer at Lego
- **Currently** Senior Architect at Cardlay (Fintech startup)
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WHY THIS COURSE?

WHY THIS COURSE?

- Mandatory
- Learn about Operating Systems
- Because the study plan says so
- …

DEVOPS

DevOps (a clipped compound of "development" and "operations") is a software development methodology that combines software development (Dev) with information technology operations (Ops). The goal of DevOps is to shorten the systems development life cycle while delivering features, fixes, and updates frequently in close alignment with business objectives.

— Wikipedia

Used extensively today in the industry

DEVOPS

As a modern developper working in a devops team, you also need to know a bit about

- Networks
- Load balancing
- Server administration
  - Cpu requirements
  - Memory requirements
- Operating systems quirks
- Databases

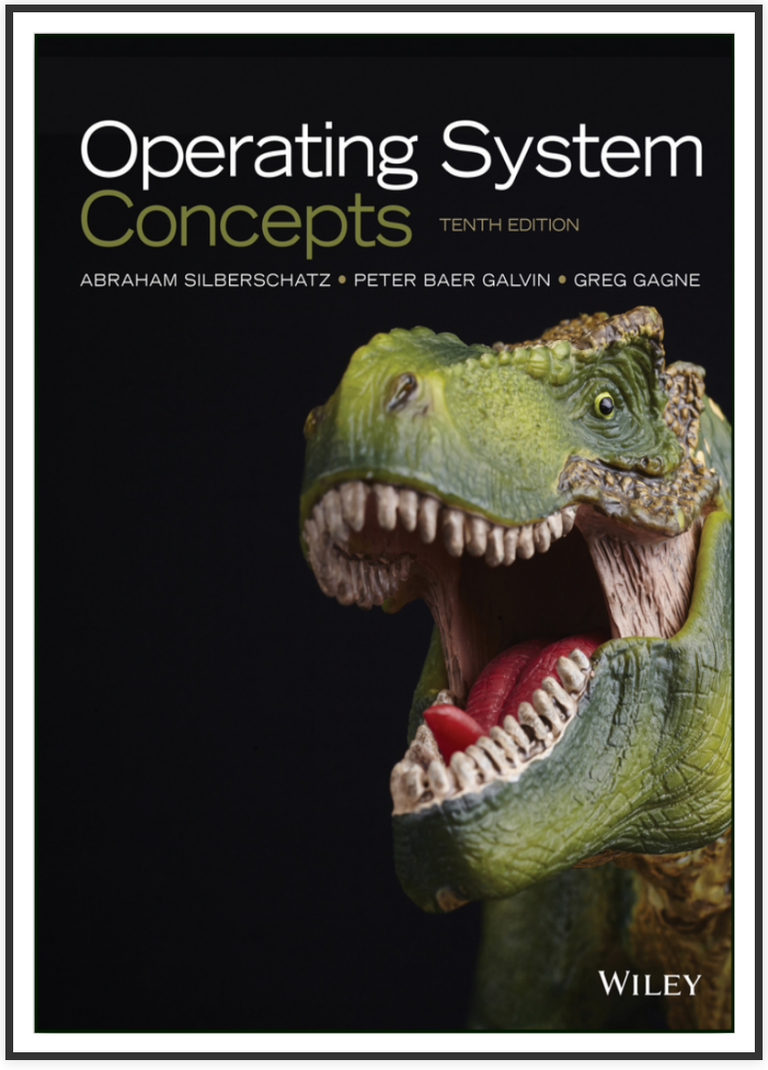
PRACTICALITIES

WEBSITE & FACEBOOK

http://imada.sdu.dk/~jamik/dm510-19/

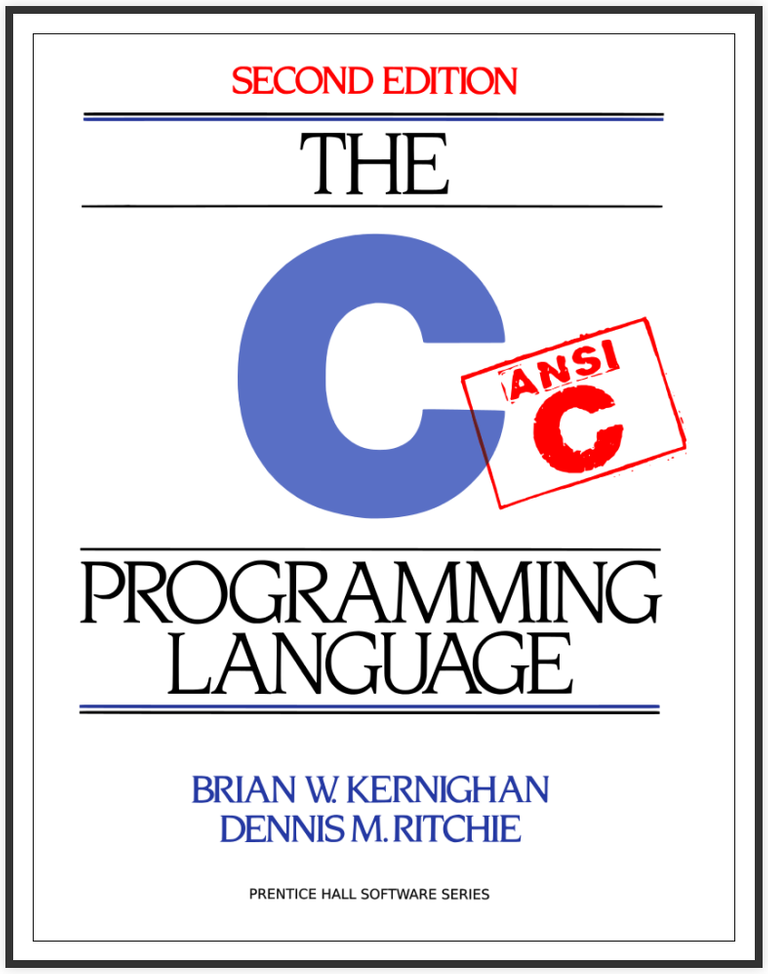
https://www.facebook.com/groups/dm510.19/

TEXTBOOK



(E-book - Not physical)

RECOMMENDED C-BOOK



PROJECTS

- C programming assignment - Detecting Cycles
- Add a system call to Linux kernel
- Implementing a kernel module
- Implementing the organization layer of a file system

EXPECTATIONS

- Lectures
- Tutorial Sessions
- Projects

FLOW IN THE COURSE

- Each week ⇒ 1 exam question
- Make notes for each as the course goes along
  - Or die when studying for the exam ;)

C PANIC

CRAFTMANSHIP!

Practice makes perfect

QUESTIONS?