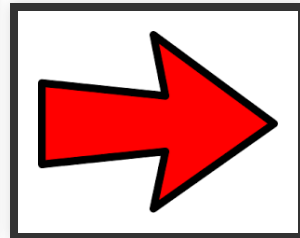




# DM510 OPERATING SYSTEMS

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)
  - **Office** Vidensbyen, Cortex Park (Campusvej)
- **Contact info:** [jamik@imada.sdu.dk](mailto:jamik@imada.sdu.dk)

The background is a solid blue color. Scattered throughout are several 3D question marks and the word 'Why' in various colors and sizes. In the top left, there is a small gold question mark. In the top right, a large white question mark with a red outline. In the center, a black question mark. In the bottom left, a green question mark and the word 'Why' in green. In the bottom right, a purple question mark and the word 'Why' in purple. A black horizontal bar is positioned across the middle of the image, containing the text 'WHY THIS COURSE?' in white, bold, uppercase letters.

# 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 developer 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

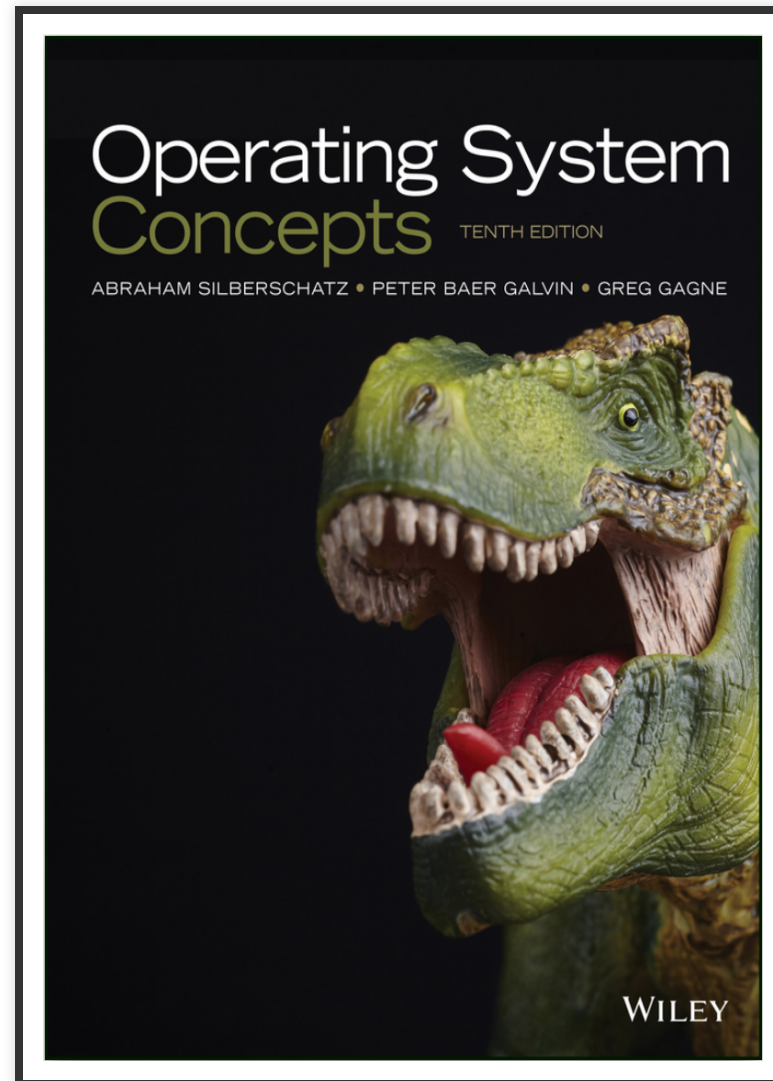
# PRACTICALITIES

# WEBSITE & FACEBOOK

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

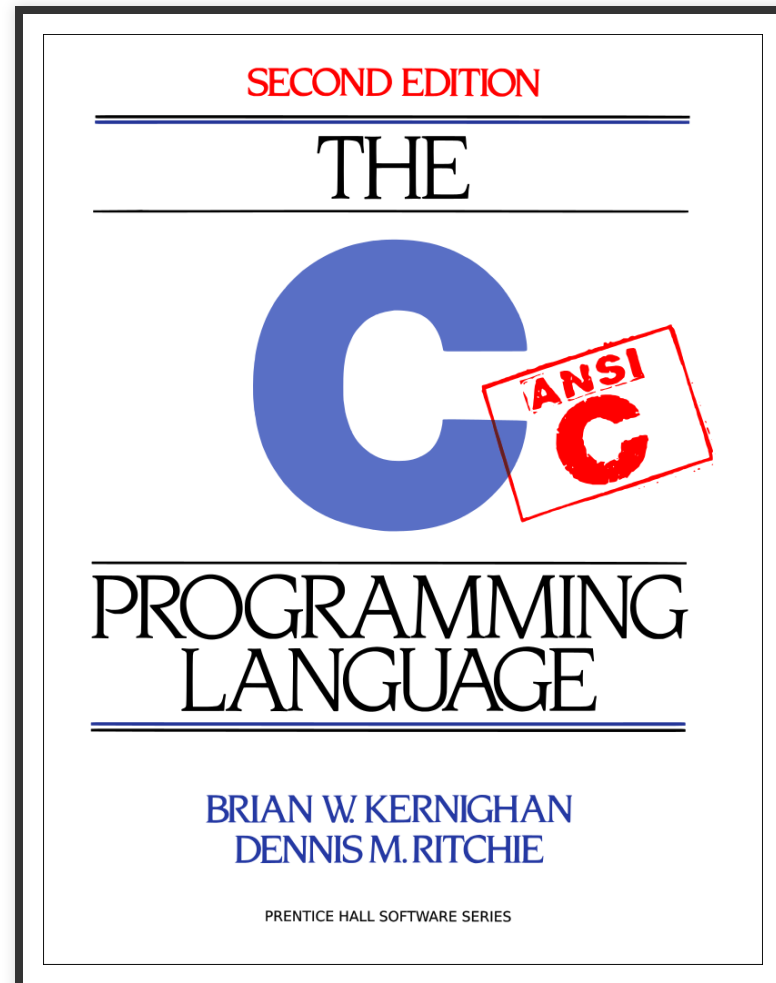
<https://www.facebook.com/groups/dm510.19/>

# 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  $\Rightarrow$  1 exam question
- Make notes for each as the course goes along
  - Or die when studying for the exam ;)

# C PANIC





# CRAFTSMANSHIP!

Practice makes perfect



**QUESTIONS?**