Designing Interactive Systems I

Course Introduction

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Media Computing Group
RWTH Aachen University

WS 2016/17
http://hci.rwth-aachen.de/dis

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Course Format

- Prof. Borchers is away from RWTH and is **not** available for teaching
- But…you can still take the course!
- How?
  - Take a look at video recordings of lectures from the previous year via **iTunes U**
  - Attend labs (every **Monday, 12:15–14:45h** at **AH IV**)
  - Do assignments and project

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Date	Lab Topic
17.10.2016	Introduction to the Course
24.10.2016	L01: Fitts' Law + CMN Model A01: Fitts' Law
31.10.2016	L02: A01 Review A02: Gestalt Laws
07.11.2016	L03: A02 Review A03: Seven Stages of Action
14.11.2016	L04: A03 Review
21.11.2016	Midterm Preparation
28.11.2016	**No Lab!**
29.11.2016	**Midterm Exam**
05.12.2016	Midterm Review
12.12.2016	P01: Project Introduction + Design Studio
19.12.2016	P02: Project Review (M1: Project Definition)
09.01.2017	P03: Project Review (M2: User observation, interviews + Low-fidelity Prototype)
16.01.2017	P04: Project Review (M3: Evaluation of Low-fidelity Prototype)
23.01.2017	P05: Project Review (M4: Medium-fidelity Prototype)
30.01.2017	P06: Project Review (M5: Evaluation of Medium-fidelity Prototype)
06.02.2017	Final Exam Preparation
14.02.2017	**Final Exam**

Questions?

- Write an email to **Krishna** (krishna@cs.rwth-aachen.de) if you have any questions
- Please prefix "**[DIS1]**" to the subject line of your email :)

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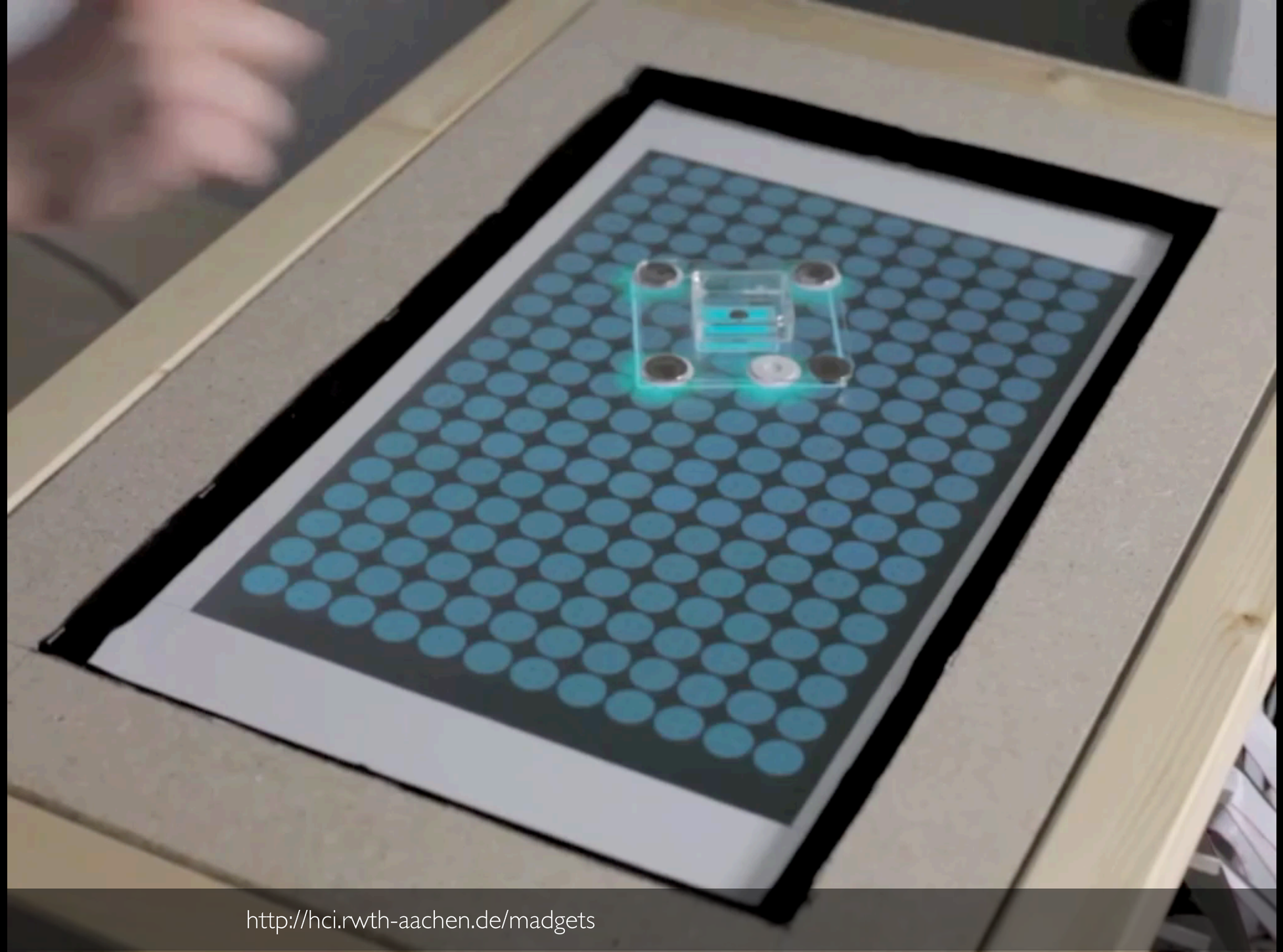
PowerSocket

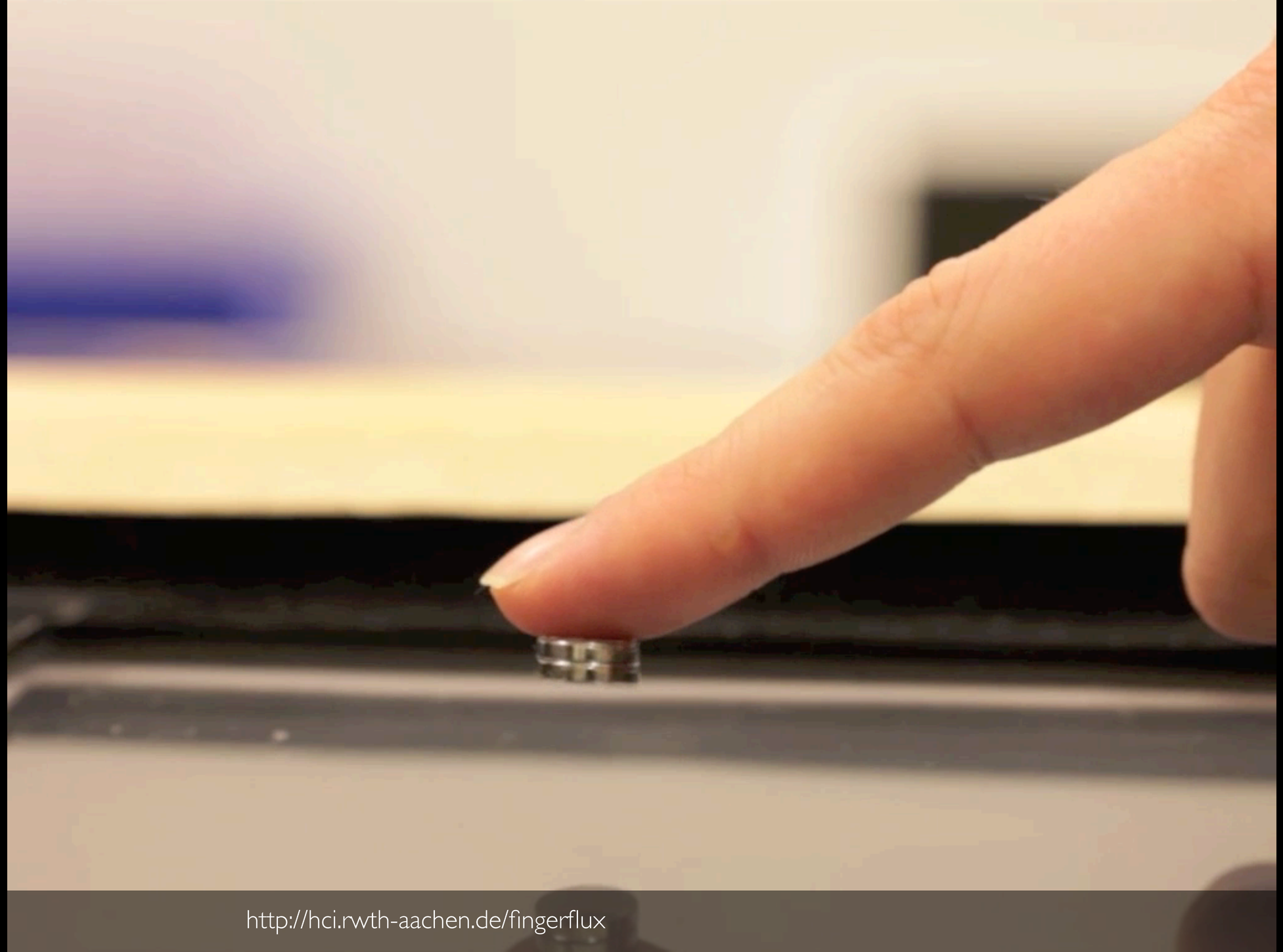
Smart Outlets

Florian

Tabletop Tower Defense:
http://hci.rwth-aachen.de/moellers



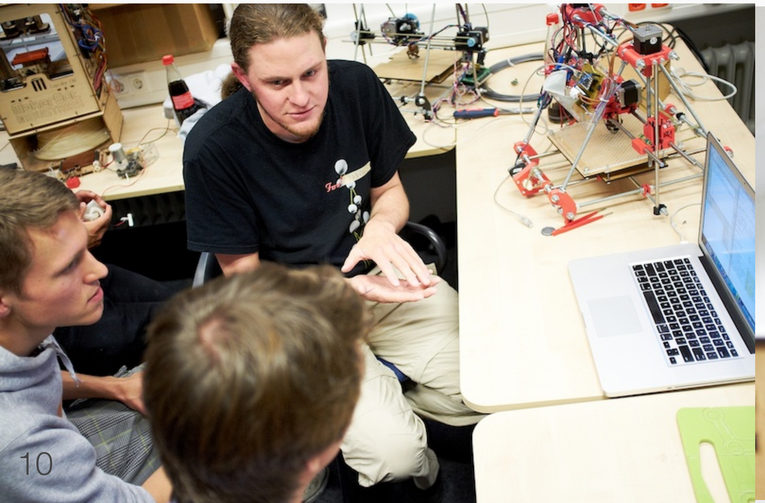
http://hci.rwth-aachen.de/madgets



http://hci.rwth-aachen.de/fingerflux

http://hci.rwth-aachen.de/expo

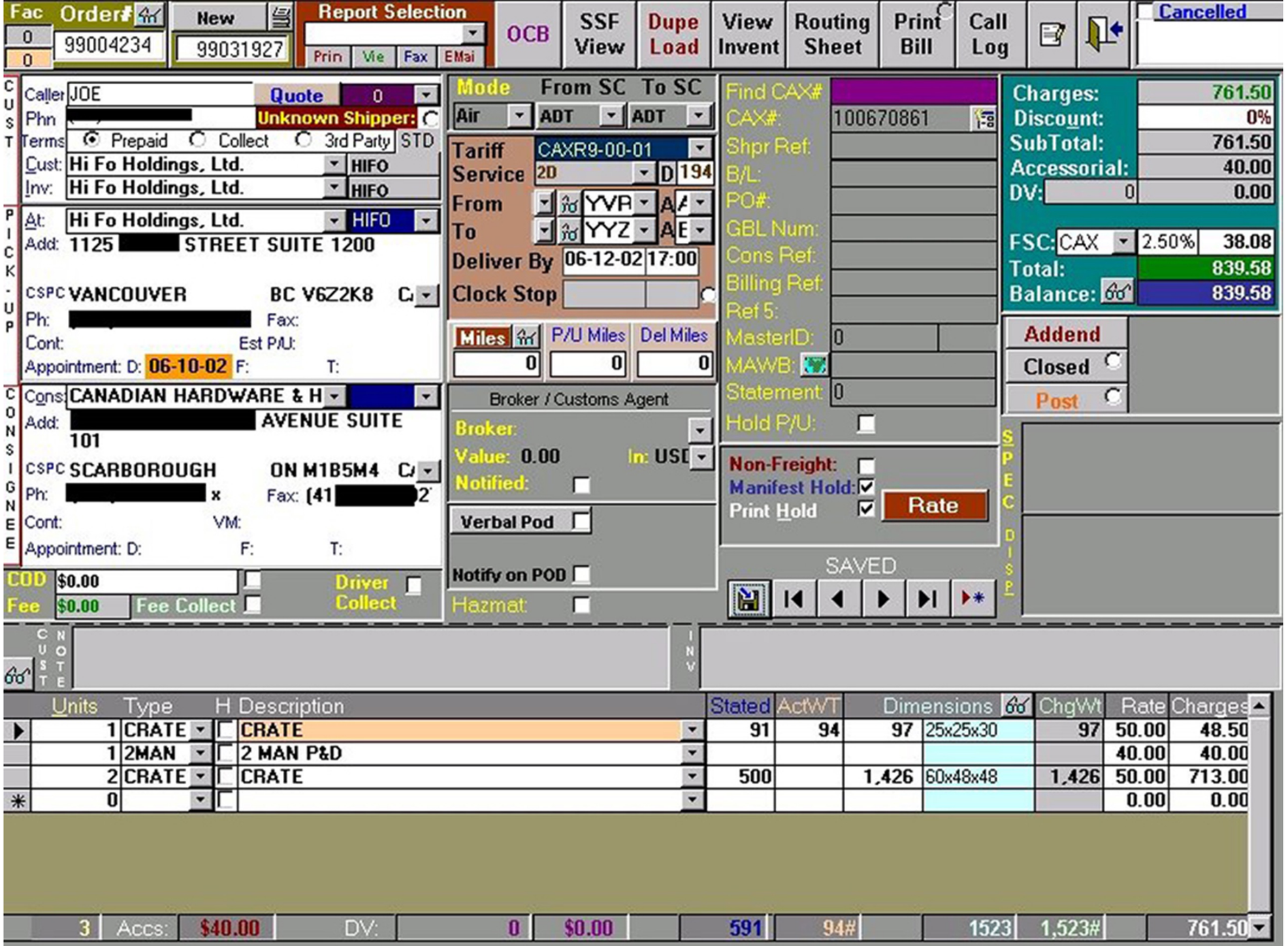
- People doing strange things with electricity in Aachen
- Monthly — next meeting: **Wednesday, Oct. 19, 18:30 (Room 2222)**
- http://www.dorkbot.de



WDR
STFU
Lokalzeit
aus Aachen

CocoaHeads Aachen

- CocoaHeads: International meet-ups about Apple's Cocoa Framework for macOS and iOS
- Monthly — next meeting: **Thursday, Oct. 27, 2016, 19:00 (Room 2222)**
  - Topic: *"Tangibles on Capacitive Touchscreens"*
- http://www.cocoaheads.de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At: Hi Fo Holdings, Ltd. HIFO
Add: 1125 STREET SUITE 1200
CSPC VANCOUVER BC V6Z2K8
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Cons: CANADIAN HARDWARE & H
Add: AVENUE SUITE 101
CSPC SCARBOROUGH ON M1B5M4
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Value: 0.00 In: USD
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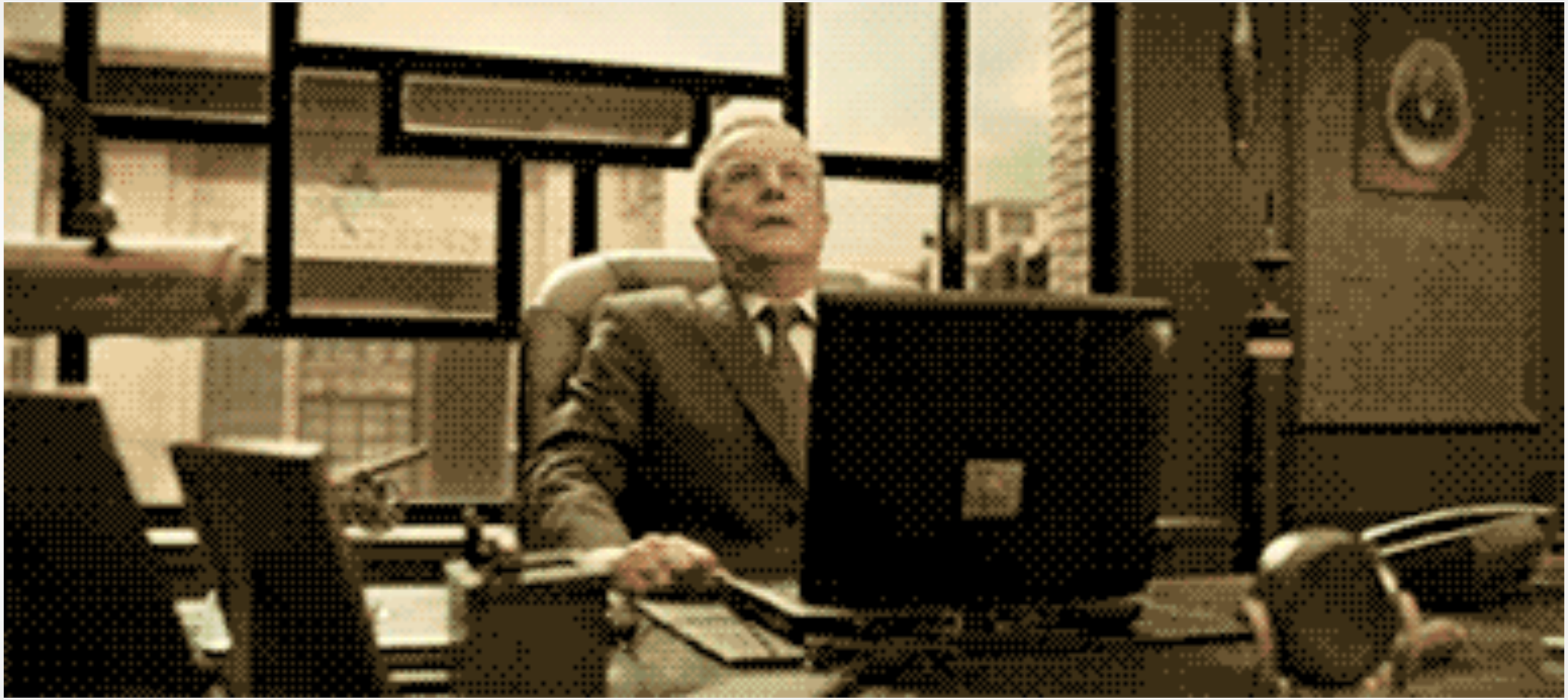

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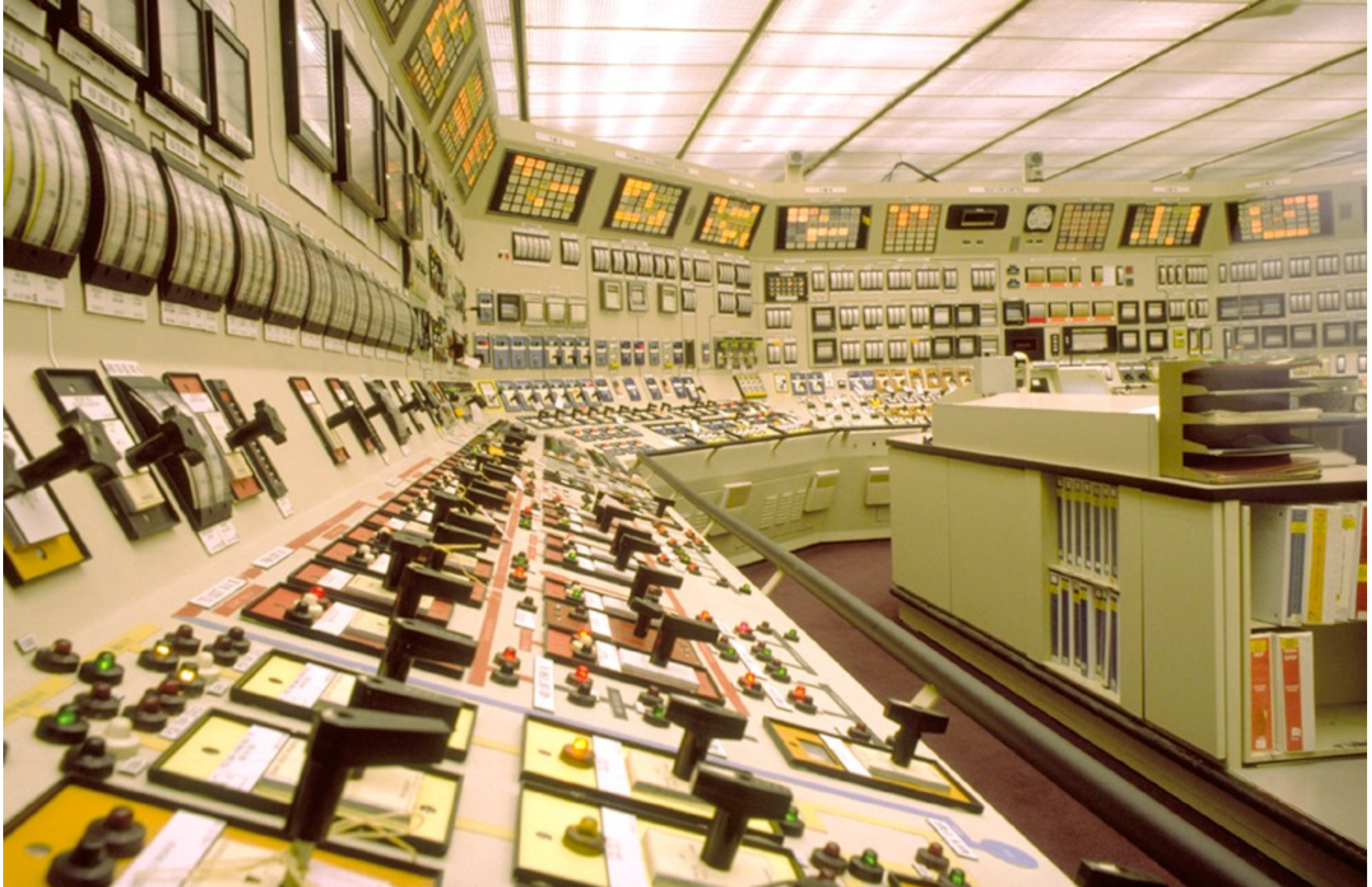

Usability Sells

DVD Player (1996)

iPhone (1st Q'07)

iPad (1st 80d '10)

Source: CNBC

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Format

- Hands-on; you need to be able to work in groups!
- Credits (**6 ECTS**)
  - 40% assignments and project
  - 25% midterm exam: **Tuesday, Nov. 29, 2016, 14:00–16:00h**
  - 35% final exam: **Tuesday, Feb. 14, 2017, 14:00–16:30h**
- To pass the course,
  - You need to pass the final exam (at least 4.0), and
  - Overall, you need an average grade of at least 4.0

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Details

- Work time @uni vs. @home is roughly 1:2!
- Limited to 60 seats (already: 100 registrations)
  - Register via Campus Office **as soon as possible!**
  - Registration result: next Monday
  - We give priority to those who need DIS 1 as compulsory course
- Erasmus student? Send **Krishna** (krishna@cs.rwth-aachen.de) an email with your TIM name, first name, last name, matriculation number, and RWTH-email address

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Details

- New exam registration regulations
- Possibility to register for the second chance exam directly
- Deadline: **Nov. 18, 2016, 23:59** (for both)
  - If you fail the first exam, there will be a short period to register for the second chance
  - Important for B.Sc.: no automatic registration for the second exam

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Media Computing and HCI

SS, WS	P	The Media Computing Project
SS	S	Post-Desktop User Interfaces
SS	V3Ü2	Current Topics in HCI
WS	V3(Ü2)	iPhone Application Programming
SS	V3Ü2	Designing Interactive Systems II
WS	V3Ü2	Designing Interactive Systems I
WS	PS	Human-Computer Interaction
SS	SW-Pr	M3: Multimodal Media Madness

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Class Topics

Cognition

- Performance
- Models of interaction
  - Affordances
  - Mappings
  - Constraints
  - Types of knowledge
  - Errors
- Design principles

History

- History of HCI
- Visions
- Phases of Technology

Design Process

- Iterative design
- User observation
- Ideation
- Prototyping
- User studies and evaluation
- Interaction design notation

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Groups for Assignments

- Form groups of 3 (!) people
- Grab a sheet
- Write down the name, matriculation number, and e-mail address (@rwth-aachen.de) of each group member
- Return the sheet to Krishna by the end of the lab!

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Next Week

- Have a look at other lectures this week and decide whether you want to take DIS I or not.
- If not, please deregister as you will otherwise block other students' seats.
- Registration results: **24th October, 2016** (next Monday)
- **Watch the first lecture on iTunes U**
- **Do not forget to register for the exam!**
- Next lab: **Monday, Oct. 24, 12:15–14:45h** at **AH IV**

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