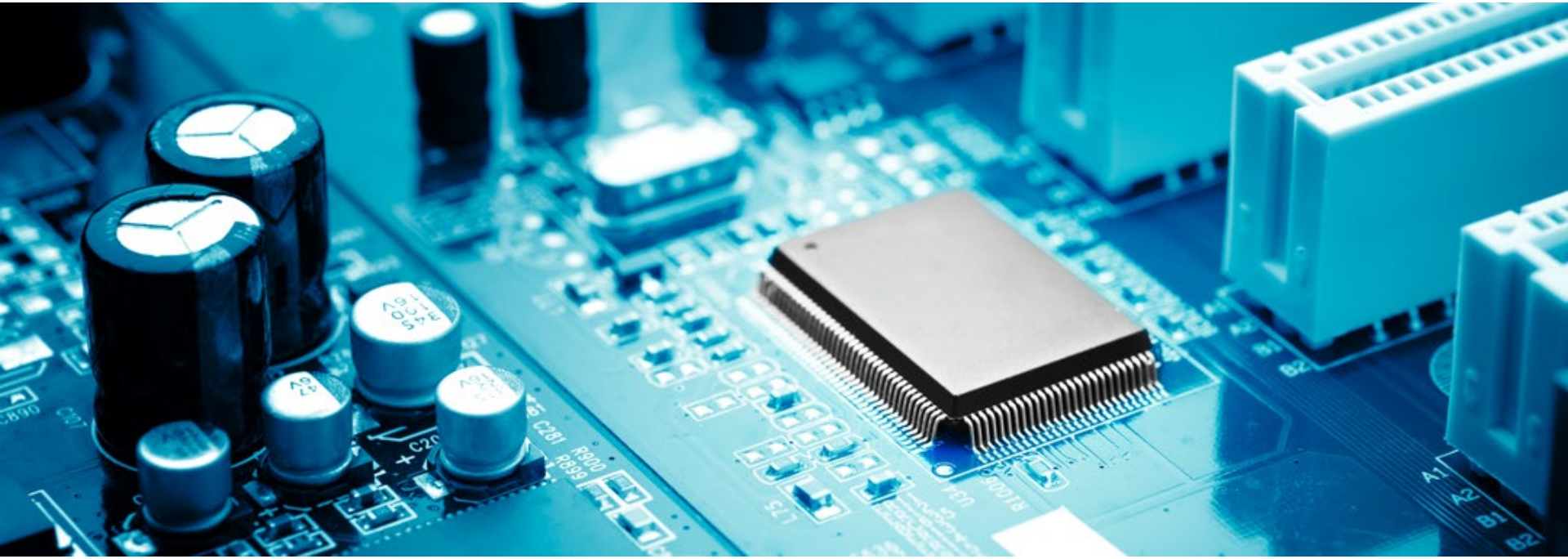


# Organization

# Structure

- 14 weeks with 4h each (~ 60h workload)
- No lecture on 2023-11-01 (public holiday)
- Time and place: **Wednesday**
  - **Lecture: 9.45-11.15 o'clock, room K106/107**, hybrid
  - **Exercise: 11.30-13.00 o'clock, room K106/107**, hybrid
  - **Exercise: 14.00-15.30 o'clock, pure online**
- Online viewing: **Zoom room linked in iLearn.**
- Home exercises & **self study**: 90h workload, i.e. **~6h per week.** A little bit less at the beginning of the semester, more at the middle of the semester, a little less at the end (but then there is the exam…).

# Lecture and Exercise sessions

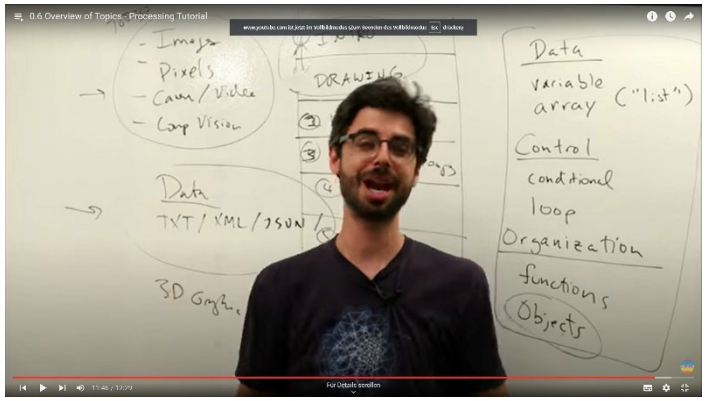
- Some of you don‘t have the chance to be here – but **I‘d like to give everyone the same possibilities to learn!**
- The first 2 lectures (today and 2023-10-11) will be 4h lectures (no exercises, therefore no 14.00 o‘clock online session)
- **From then on (starting with 2023-10-18):**
  - **9.45-11.15: Lecture, hybrid.**
    The lectures will be (hopefully) recorded.
    I‘ll ignore the Zoom chat, but there may be a volunteer in the room observing the chat and pointing me to it?
  - **10.30-13.00: Exercise,** hybrid? Recording?
    My focus is on the people present.
  - **14.00-15.30: Exercise,** pure online. I‘ll do that in my office and therefore can fully focus on the Zoom people.

# Lecture and Exercise: Intentions

- **Lecture:** Me talking. **Ask anytime!**
- **Exercise:**
  - **Ask more!** Ask specific things about your code!
    (If it gets too specific, I'll tell you that and we can figure it out after the session or in a separate meeting.)
  - There will be **exercise sheets** containing
    - In-class exercises
    - Additional exercises (of which we may do some, but not all, during the sessions)
    - For some exercises, solutions will be given (delayed)
  - You only have to attend *one of the two sessions!*
- **The exercises give you a good feel what is asked in the exam!**

# Lecture material

- There is no textbook (but there are many, many good Programming introduction books that you can read beside the lectures)
- All slides will be uploaded in iLearn.
- For the first part of the semester, I found a youtube video course that supplements this lecture perfectly:
  - https://www.youtube.com/playlist?list=PLzJbM9-DyOZyMZzVda3HaWviHqfPiYN7e
  - „Learning Processing" By Daniel Shiffman („The coding train")
  - I'll link the currently fitting videos in these slides.




Daniel Shiffman, author of „The nature of code",
~1.5 million YouTube followers,
https://www.youtube.com/c/TheCodingTrain

# Lecture material: Legacy

- I did not create the lecture material completely „from scratch“.
- The lecturer that gave this course before me (*Michael Thurner*) gave me his material, of which I incorporated large sections into my slides.
- *Prof. Buchmann* also shared his slides with me, which I use at several points in the course.
- A **big thanks** to both of them!

# Teacher and student

- Language: Broken english (I learn from you…)
- **My second year at the DIT**, i.e.: Your chance to influence the speed and content of the lecture!
- Tell me if I‘m going to fast / too slow. **Ask me** for details and if you need assistance!
- There is an **Etherpad in iLearn** for asking written questions: “General and topic related questions”.
  I’ll always open this at the beginning of the exercises and try to answer everything new.
- There is a **“FAQ” in iLearn** with (answered) questions from your predecessors.
- Michael (the teacher) in Victor Wootens book “The music lesson”:
  ***“I can teach you nothing!”*** (think about that…)

# Exam and exercise performance

- You must have at least participated in the exam once at the end of the 2nd semester.
- The exam will be at the end of the semester (in the exam period).
- You will have to pass an **exercise performance** (German: "Leistungsnachweis", abbr. LN) **to be allowed for exam**.
- You have to **register for both the LN and the exam** during a certain period (2023-11-07 to 2023-11-23) in the Primuss Portal!
- No registration => No LN => No exam (I hope this does not happen…)

# Exam

- 90min **written exam in-presence.**
- **No helping tools** allowed (beside a pen, of course)
- That means: While we do almost all of our exercises on a computer, **you need the skill to program on paper!**
- This is an **essential skill** for every computer scientist!
- My tip for the exercises / the exercise performance:
  - Think about the task and then write the solution down (on paper!).
  - Type the solution into your computer. Test the program.
  - Learn from the mistakes made and incorporate them in your writing (programming requires attention to details).

# Exercise performance

- When we start the LN tasks (most likely: next week), *there will be a slide set with detailed introduction/rules.*
- There will be 6 tasks.
- The tasks will be graded with a point-scheme:
  - You can achieve a certain number of points per task.
  - The number of points differs from task to task (more points for the later tasks)
- **A duplicate checker is applied** (ask your colleagues!). Double hand-ins: No points!
- **ChatGPT, CodePilot** etc. create duplicates just by using them. For this (!!!) course, **they are not allowed.**
- You need **more than 50%** of the points **to pass** the LN.

# General study advice

- You are **required** to **be in Deggendorf at the beginning of the 3rd semester** because from then on:
  - Professors are not required to give hybrid lectures .
  - During-the-semester tests may be in-person group work.
- **My personal opinion**:
  - **Come to Deggendorf as soon as possible!** (You'll have the written exams at the end of semester 1 & 2 anyway).
  - If you have no visa yet, *you should have applied for it yesterday!*
- **Studying is** (or: should be) much, much more than hearing lectures and writing exams:
  - Experience of a „fresh start"
  - **Students community**: Building a social network, **finding friends**, party…

# Course outline

- Programming introduction and first „real“ programming steps
- Variables
- Conditionals
- Code style
- Data types
- Loops and arrays
- Functions
- Recursion
- OOP introduction: Objects, inheritance
- Java, attribute modifiers

# Upcoming…

In lecture 1:

- We get a very, very rough introduction to what "Programming" actually means.
- **We talk about the variety of Programming languages and the one that I've chosen for this course.**