👤 Binh Nguyen 🔻 v1.20.4 CS-A1110 O1 ▼

Course materials

Course

Course materials

Your points

Form a group

H Code Vault

Telegram chat

Piazza 🗹

Lab sessions

Scala reference

IntelliJ installation

Learning goals

Lectures

Style guide

Debugger

Resources

For the reader

O1Library docs

Glossary

FAQ

2 Lab Queue 2

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CS-A1110 / Supplementary Pages / Lab Sessions

Lab Sessions

« Supplementary Pages

Teaching assistants support your programming studies at lab sessions, also known simply as "labs". There are several labs every day between September 7th and December 5th, 2023. This is where you can come to discuss programming with the course staff and get help on the assignments.

Note Independence Day! Just before O1 ends, on December, 6th, 2023, is Finnish Independence Day. On that date, there's no teaching at Aalto, and thus no O1 lab sessions either.

However, some of the sessions are instead online on Zoom, as explained below on this page. Please note that in certain weeks, the on-campus labs are in a different classroom than usual, which is also detailed below. (In addition to the labs, we provide a Piazza discussion board and a group on Telegram; see Chapter 1.1.)

Most labs are at the Maarintalo building (Sähkömiehentie 5, Espoo) in the classroom Maari-A.

The sessions start a quarter past the indicated hour, but you can come and go as you please. There's no set agenda: you can come to a session to work on the assignments and ask for advice as the need arises.

Participation is voluntary but highly recommended. You don't need to — and can't — sign up in advance. The assistants can help you in English, Finnish, and (at some sessions) Swedish.

Location **Teaching Assistants** Time **Dates** Nhut Cao (EN), Maari-A Mon From

Mon 8-10	From Sep 11th, 2023	Maari-A	Nhut Cao (EN), Tuomas Nummela (FI+EN)
Mon 10-12	From Sep 11th, 2023	Maari-A	Eemil Lähteenmäki (fi+en), Kirill Enckell (fi+en), Filippa Sandberg (sv+en)
Mon 12-14	From Sep 11th, 2023	Maari-A	Filippa Sandberg (sv+en), Karoliina Oksanen (fi+en), Elja Saksman (fi+en), Kirill Enckell (fi+en)
Mon 14-16	From Sep 11th, 2023	Maari-A	Filippa Sandberg (sv+en), Elmeri Lankinen (fi+en), Karoliina Oksanen (fi+en)
Mon 16-18	From Sep 11th, 2023	Maari-A	Elmeri Lankinen (fi+en), Kautilya Patel (en), Mikael Lenander (fi+en), Nuutti Kuosa (fi+en)
Mon 16-18	From Sep 11th, 2023	Remote via Zoom	Severi Koivumaa (fi+En)
Mon 18-20	From Sep 11th, 2023	Maari-A	Anton Podlozny (fi+en), Hiep Nguyen (en), Onni Miettinen (fi+en)
Tue 8-10	From Sep 12th, 2023	Maari-A	GuTing Huang (EN), Joel Toppinen (FI+EN)
Tue 10–12	From Sep 12th, 2023	Maari-A	Ilona Ma (fi+en), Severi Koivumaa (fi+en), Tuomas Nummela (fi+en)
Tue 12–14	From Sep 12th, 2023	Maari-A	Anton Podlozny (fi+en), Joose Eronen (fi+en), Mohammed Anwer (fi+en), Kerttu Peura (fi+en), Janne Seppälä (fi+en),
Tue 14–16	From Sep 12th, 2023	Maari-A	Antti Immonen (fi+en), Inka Viita (fi+en), Janne Seppälä (fi+en), Kerttu Peura (fi+en), Onni Komulainen (fi+en)
Tue 16-18	From Sep 12th, 2023	Maari-A	Hilkka Gröhn (fi+en), Kautilya Patel (en), Olli Ullgren (fi+en), Roosa Ripatti (fi+sv+en), Inka Viita (fi+en)
Tue 18-20	From Sep 12th, 2023	Maari-A	Hiep Nguyen (EN), Olli Ullgren (FI+EN), Onni Komulainen (FI+EN)
Wed 8-10	From Sep 13th, 2023	Maari-A No teaching on Dec 6th (Finnish Independence Day)	GuTing Huang (EN), Joel Toppinen (FI+EN), Nhut Cao (EN)
Wed 10-12	From Sep 13th, 2023	Maari-A No teaching on Dec 6th (Finnish Independence Day)	Eemil Lähteenmäki (fi+en), Hannes Fant (sv+en), Viola Rautaheimo (fi+en)
Wed 12-14	From Sep 13th, 2023	Maari-A No teaching on Dec 6th (Finnish Independence Day)	Joose Eronen (FI+EN), Kalle Laitinen (FI+EN), Nhut Cao (EN), Roosa Ripatti (FI+SV+EN)
Wed 14-16	From Sep 13th, 2023	Maari-A No teaching on Dec 6th (Finnish Independence Day)	Esa Elo (fi+sv+en), Kaisa Ek (fi+en), Lilli Peura (fi+en), Mohammed Anwer (fi+en), Onni Miettinen (fi+en)
Wed 14-16	From Sep 13th, 2023	Remote via Zoom No teaching on Dec 6th (Finnish Independence Day)	Kalle Laitinen (fi+EN)
Wed 16-18	From Sep 13th, 2023	Maari-A No teaching on Dec 6th (Finnish Independence Day)	Elja Saksman (fi+en), Esa Elo (fi+sv+en), Lilli Peura (fi+en), Nuutti Kuosa (fi+en), Onni Komulainen (fi+en)
Thu 10-12	From Sep 7th, 2023	Maari-A	Hannes Fant (sv+EN)
Thu 12-14	From Sep 7th, 2023	Maari-A	Kaarlo Kauriinvaha (fi+en), Onni Komulainen (fi+en)
Thu 14-16	From Sep 7th, 2023	Maari-A	Hilkka Gröhn (fi+en), Kautilya Patel (en)
Thu 16-18	From Sep 7th, 2023	Maari-A	GuTing Huang (EN)
Fri 10-12	From Sep 8th, 2023	Maari-A	Hiep Nguyen (EN), Onni Miettinen (FI+EN)
Fri 12-14	From Sep 8th, 2023	Maari-A	Viola Rautaheimo (fi+EN)
Fri 14–16	From Sep 8th 2023	Maari-A	Kaarlo Kauriinvaha (fi+en)

If you are unfamiliar with Zoom, please try it out well in advance before joining one of the online labs.

Online Labs on Zoom

student (or pair of students).

14-16

Fri

16-18

Sep 8th, 2023

Sep 8th, 2023

From

Setting up Zoom Install Zoom on your computer as per Aalto's Zoom Quick Guide.

Zoom may be initially configured to mute any teaching assistants that enter your Zoom

Some of the labs will be online as Zoom video calls where students can discuss their program

individually with a teaching assistant. We'll use A+'s Lab Queue feature to allocate turns to each

Maari-A

Hannes Fant (sv+EN)

Zoom in the browser

how to launch it:

selecting

Start from your browser.

4. Select Join Audio by Computer.

Instead of the separate Zoom app, you can use

Zoom in your web browser. If you do, here's

5. A Zoom meeting starts. You can now copy

Manage Participants \rightarrow Invite \rightarrow Copy URL.

If you use Zoom in the browser, you'll also need

to adjust your browser settings to let Zoom

access your microphone and camera.

the invitation link to the clipboard by

1. Go to aalto.zoom.us and log in with your Aalto account. 2. In the left-hand menu, choose **Settings**.

3. Scroll down until you find Mute participants upon entry. Make sure that the

setting is *not* enabled. Test your video and audio in advance to make sure they're working in Zoom.

You don't have to (and can't) sign up in advance. When you want to talk to a teaching assistant, do the following.

Before you join the queue, start a Zoom meeting:

Joining an online lab

meetings. Please ensure that this is not the case:

1. Go to aalto.zoom.us. 1. Open Zoom and select New Meeting. 2. Press Host. 2. Select **Join with Computer Audio**. Your meeting is now active but with only you as a participant. Others can join if they have an 3. In the dialog that pops up, press

With the Zoom meeting running, enter the Lab Queue: 1. Make sure that the program, ebook page, or other material that you wish to discuss is ready for viewing on your computer.

2. Here in A+, select Lab Queue in the menu.

Screen-sharing and mics on Zoom

invite link, more on which below.

link from Zoom. You can copy this link to your clipboard by selecting, in Zoom, Participants → Invite → Copy invite link. • If you're working together with a pair, make sure to share the

3. The Lab Queue prompts you for a video link. Put in the invite

link with them, too, so that you're both present when the assistant joins the meeting. 4. In the drop-down menu, select which language you'd prefer to be advised in.

5. Confirm the selections, and you're in the queue. An assistant will join your Zoom meeting sooner or later, depending on the length of the queue. Especially when the queue is long, the assistant cannot spend long in one meeting. For that reason, too, please be prepared when it's your turn!

In order to help you, the assistant will typically need to see the program that you're working on. You can share your computer's screen with the assistant by selecting, at Zoom's bottom edge, Share → Screen and confirming with Share.

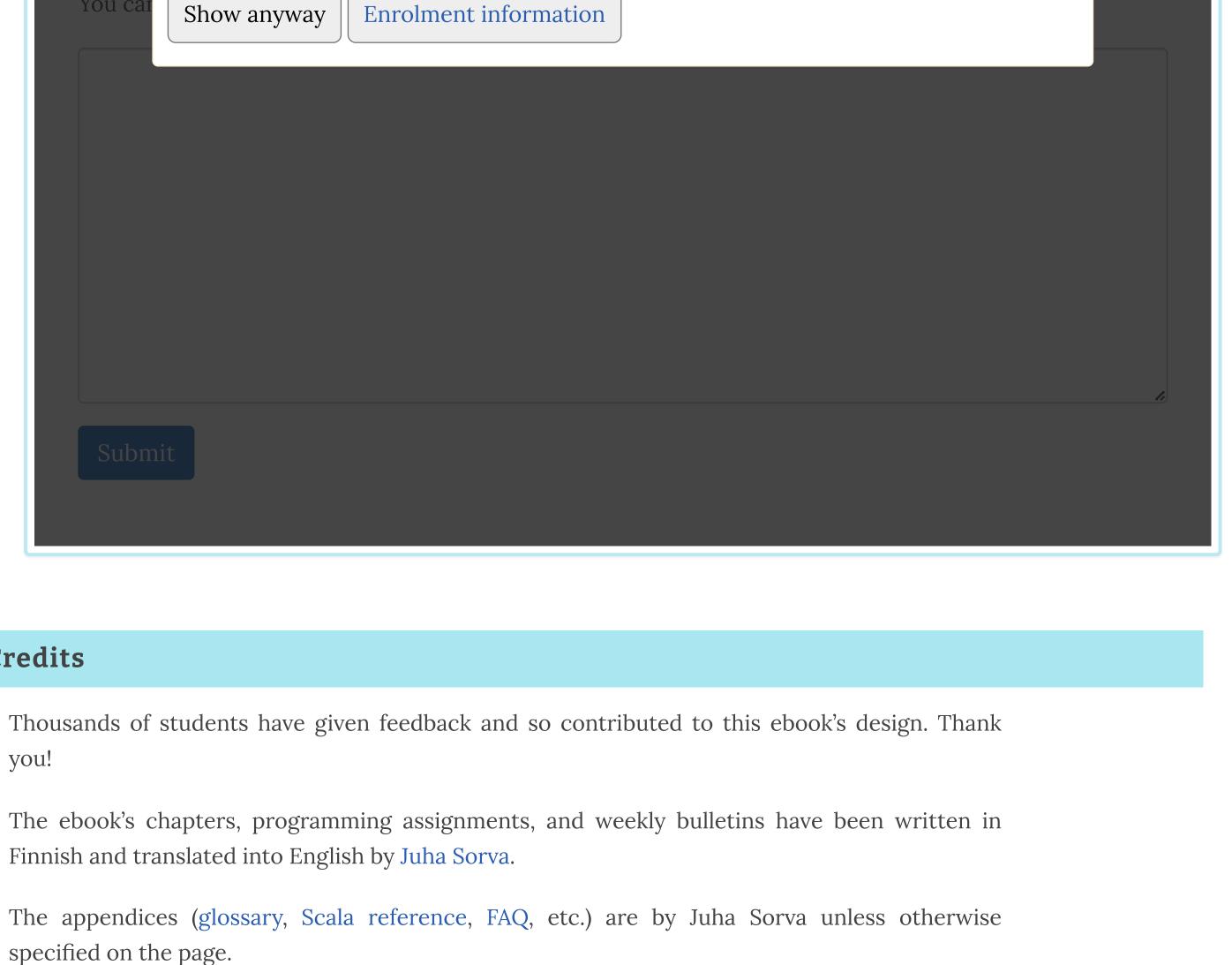
microphone isn't muted; or if it is, click the symbol or press Alt + A. If you can't hear the assistant, make sure they aren't muted by checking **Participants** at Zoom's bottom edge. When you mouse over the assistant's name in that list, you'll see a **Mute/Unmute** button. While resolving

You must enroll in the course to submit assignments.

In Zoom's bottom-left corner, there's a little microphone symbol. Check to see that your

My submissions **0** Not submitted You cannot submit this assignment

audio trouble, you can resort to Zoom's textual Chat, too.



Feedback

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Credits

The automatic assessment of the assignments has been developed by: (in alphabetical order) Riku Autio, Nikolas Drosdek, Kaisa Ek, Joonatan Honkamaa, Antti Immonen, Jaakko Kantojärvi, Niklas Kröger, Kalle Laitinen, Teemu Lehtinen, Mikael Lenander, Ilona Ma, Jaakko Nakaza, Strasdosky Otewa, Timi Seppälä, Teemu Sirkiä, Anna Valldeoriola Cardó, and Aleksi Vartiainen.

The illustrations at the top of each chapter, and the similar drawings elsewhere in the ebook, are the work of Christina Lassheikki.

Teemu Sirkiä. Teemu Sirkiä and Riku Autio did the technical implementation, relying on Teemu's Jsvee and Kelmu toolkits. The other diagrams and interactive presentations in the ebook are by Juha Sorva.

key components are built upon Aleksi's SMCL library.

The pedagogy of using O1Library for simple graphical programming (such as Pic) is inspired by the textbooks How to Design Programs by Flatt, Felleisen, Findler, and Krishnamurthi and Picturing Programs by Stephen Bloch.

The course platform A+ was originally created at Aalto's LeTech research group as a student project. The open-source project is now shepherded by the Computer Science department's

developer; dozens of Aalto students and others have also contributed. The A+ Courses plugin, which supports A+ and O1 in IntelliJ IDEA, is another open-source

project. It has been designed and implemented by various students in collaboration with O1's teachers.

For O1's current teaching staff, please see Chapter 1.1. Additional credits for this page

and Kerttu Pollari-Malmi; Juha Sorva translated the instructions to English.

« Supplementary Pages

The animations that detail the execution Scala programs have been designed by Juha Sorva and

The O1Library software has been developed by Aleksi Lukkarinen and Juha Sorva. Several of its

edu-tech team and hosted by the department's IT services. Markku Riekkinen is the current lead

Niklas Kröger wrote the instructions for Zoom labs, drawing on similar guides by Mikko Kivelä

Course materials

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