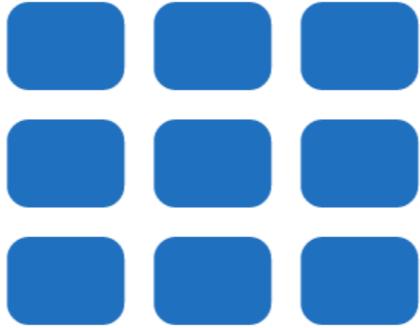
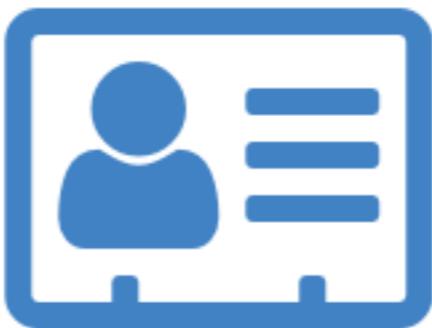


Overview of Structure & Purpose of the Online Materials

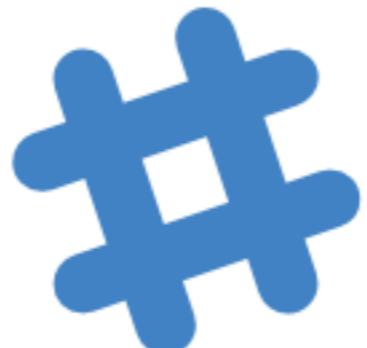
Tutors



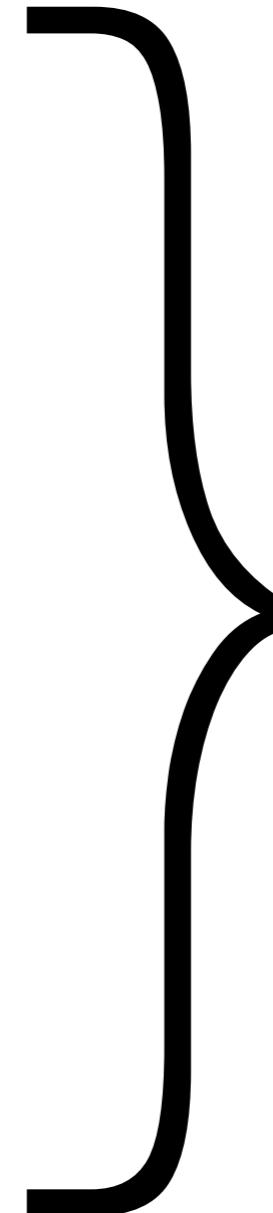
Adobe Connect



Slack

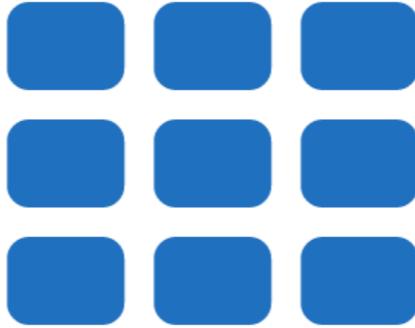


Moodle



4 Key Web
Services

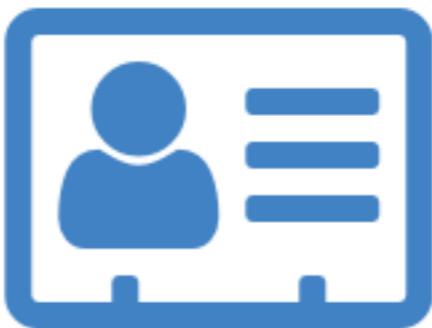
Tutors



}

open

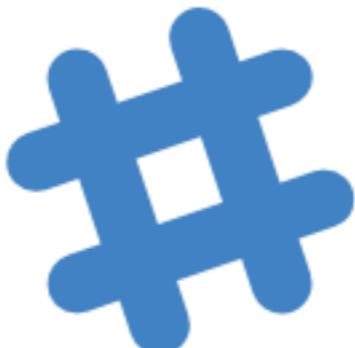
Adobe Connect



}

wit email

Slack



}

wit email

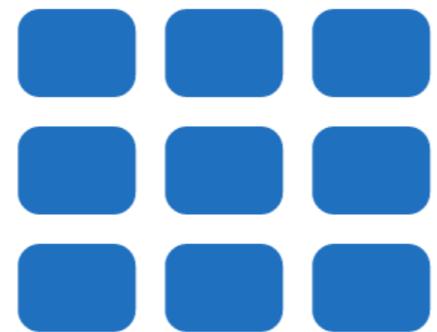
Moodle



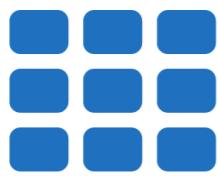
}

wit email

Tutors



Primary location
of module
lectures, lab and
video material



Programme Home Page

Links to all resources + Modules

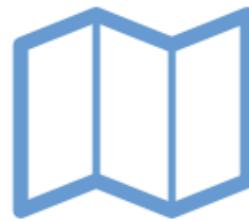
Higher Diploma in Computer Science 2018

Department of Computing & Mathematics, WIT



Guides

Programme
Introduction



structure · philosophy ·
materials · module
introductions

Schedules &
Handbooks



timetables · assessment
schedules · programme
handbooks

Learning to
Learn Online



learning resources · guides
· tools · howtos

Semester 1

Programming
Fundamentals



algorithms · data structures
· processing · java · classes ·
libraries

Web
Development



html · css · layout · web
apps · web frameworks ·
deployment

ICT Skills
Studio

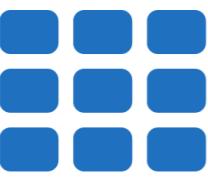


javascript · node · express ·
git · github · glitch

10 Credits

5 Credits

5 Credits



Semester 1

Programming Fundamentals



algorithms · data structures · processing · java · classes · libraries

10 Credits

Web Development



html · css · layout · web apps · web frameworks · deployment

5 Credits

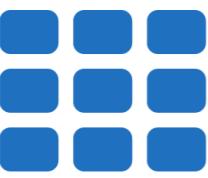
ICT Skills Studio



javascript · node · express · git · github · glitch

5 Credits

Links to Individual Module
Home Pages



Programme
Home

Adobe
Connect

Moodle

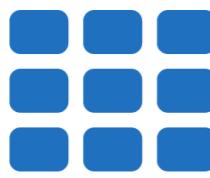
Slack



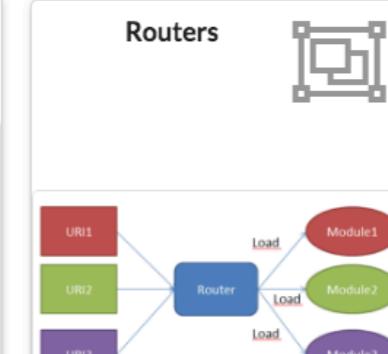
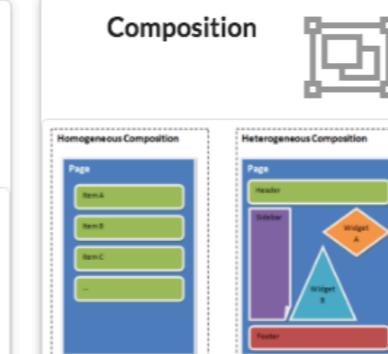
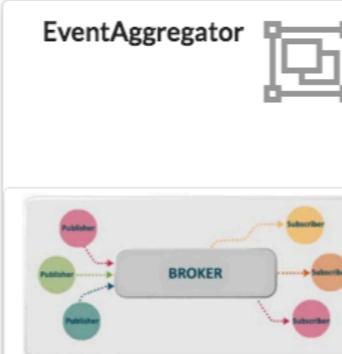
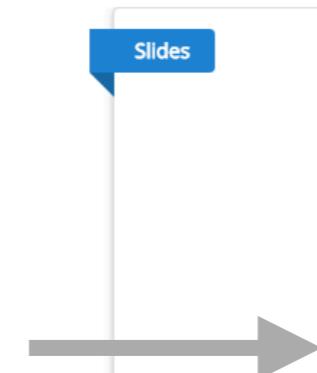
Topic

The module home page displays four main topic cards:

- 1: Introduction**: Introducing the module, assessment and schedule. Includes sections on HTML, CSS, JS, RESTful API, and more.
- 2: JavaScript Review**: Re-introduction to Javascript. Review language structure and usage.
- 3: DOM & JQuery**: Review the nature & structure of the DOM. Basics of JQuery library.
- 4: Ajax & APIs**: Learn how to invoke REST services in JQuery using ajax features. Explore github and foursquare APIs in this context.



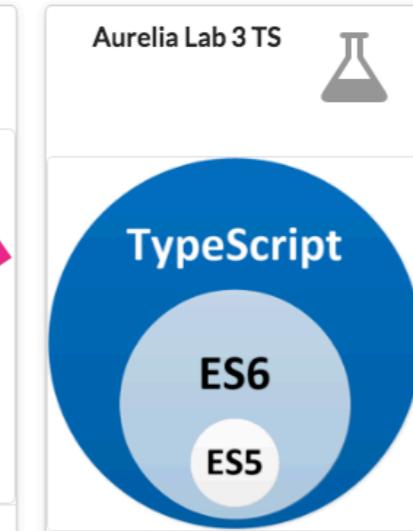
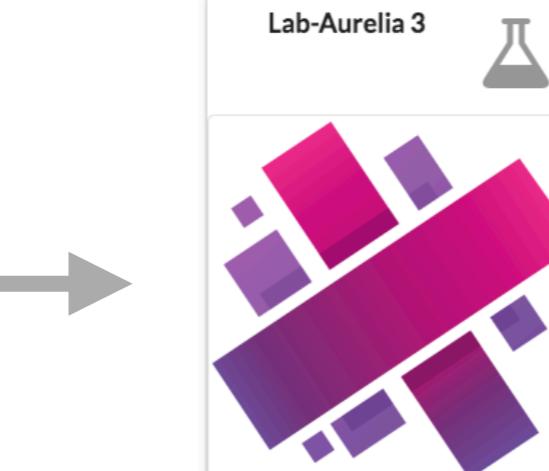
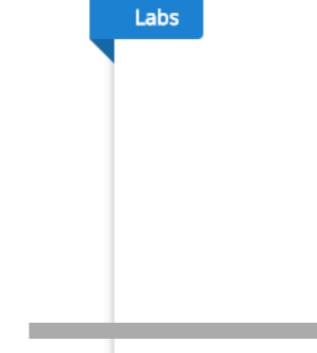
PDFs of Slides



Videos of Talk Accompanying Slides



Labs





Module Lab

Lab Steps + Exercises



Lab Instructions



Starter Project

If you are not familiar with Typescript - it might be worth a quick review of the language here:

- <https://www.typescriptlang.org/docs/handbook/typescript-in-5-minutes.html>

Make sure you have the latest typescript and aurelia-cli installed on your workstation:

```
npm install typescript -g
npm install aurelia-cli -g
```

Create a new Aurelia project:

```
au new donation-client-ts
```

Make sure to select [2] for typescript:

Would you like to use the default setup or customize your choices?

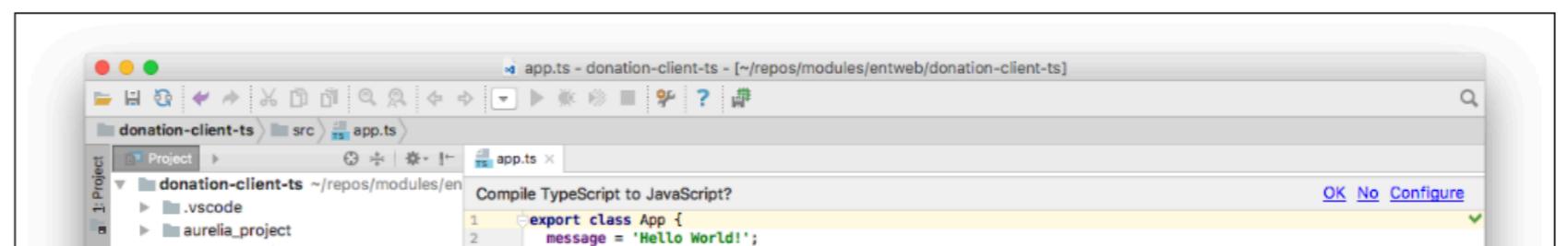
1. Default ESNext (Default)
A basic web-oriented setup with Babel and RequireJS for modern JavaScript development.
2. Default TypeScript
A basic web-oriented setup with TypeScript and RequireJS for modern JavaScript development.
3. Custom
Select loaders (requirejs/systemjs), bundlers (cli/webpack), transpilers, CSS pre-processors and more.

[Default ESNext]>2

Accept all other defaults.

You should be able to immediately open the project in Webstorm.

When invited to compile Typescript to Javascript - press 'OK'

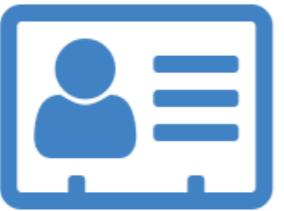


Adobe Connect



Live Webinars
Delivery

Adobe Connect



Presenter

The screenshot shows the Adobe Connect meeting interface. On the left, there's a presentation slide titled "Web Development" featuring icons for HTML, CSS, and Java, along with some text about web development fundamentals. In the center, there's a video feed of a man (Eamonn Deleastar) wearing a blue jacket and glasses. On the right, there's a sidebar for "Attendees" listing "Hosts (1)" (Eamonn Deleastar), "Presenters (0)", and "Participants (1)". Below that is a "Chat" section with messages from attendees like Krish, Kev, Eamonn Deleastar, Anjali, Peter, and Eamonn Deleastar himself. Three grey arrows point from the text labels at the bottom to specific parts of the interface: one arrow points to the presentation slide, another to the video feed, and a third to the chat window.

Topic Slides of
demonstrations

Attendees + chat



Adobe Connect

- 1: Main Share Area
- 2: Presenter Camera
- 3: List of Hosts & Attendees
- 4: Chat

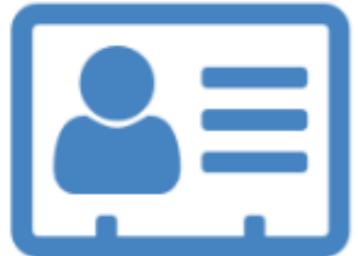
The screenshot shows the Adobe Connect interface with several features highlighted:

- Tutors:** A grid of blue icons representing tutors, grouped by a large brace on the right labeled "open".
- Adobe Connect:** A single blue icon representing the Adobe Connect application, grouped by a large brace on the right labeled "wit email".
- Slack:** A blue hashtag icon representing Slack, grouped by a large brace on the right labeled "wit email".
- Moodle:** A blue graduation cap icon representing Moodle, grouped by a large brace on the right labeled "wit email".

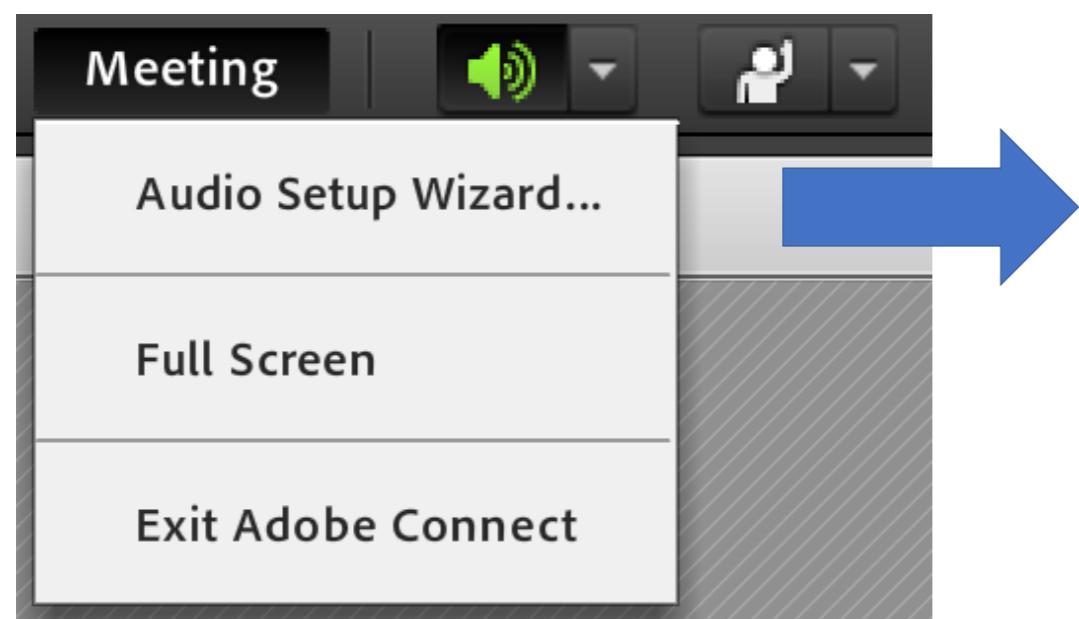
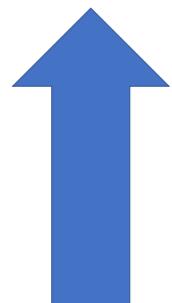
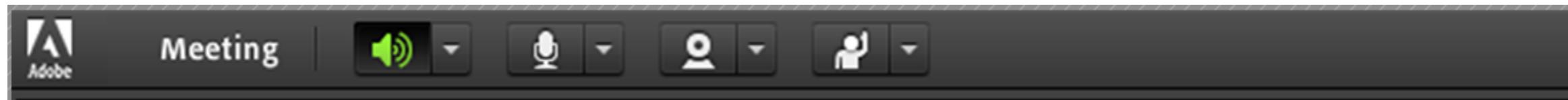
On the right side of the interface, there is a detailed view of a meeting sharing area:

- Video (1):** Shows a video feed of a man named Eamonn Deleastar.
- Attendees (7):** A list of participants including Eamonn Deleastar, Peter Windle, Brenda Mullally, Ali Jilani, Dan Smith, Kev, and Paul.
- Chat (Everyone):** A transcript of the chat session with messages from various participants.
- Sharing:** A sidebar with options for Sharing, Discussion, and Collaboration.

Four orange circles with numbers 1 through 4 point to specific elements: 1 points to the Tutors icon, 2 points to the Video feed, 3 points to the Attendees list, and 4 points to the Chat transcript.



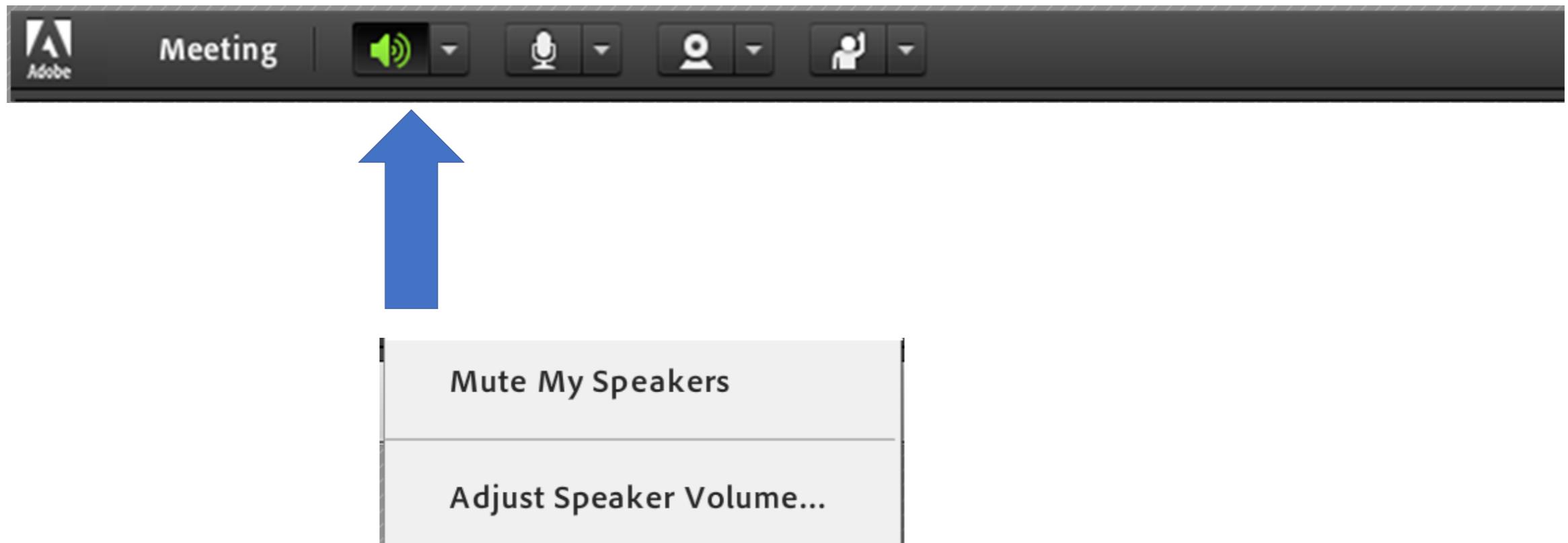
Adobe Connect Audio



Configure Speakers and microphone in the Audio Setup Wizard



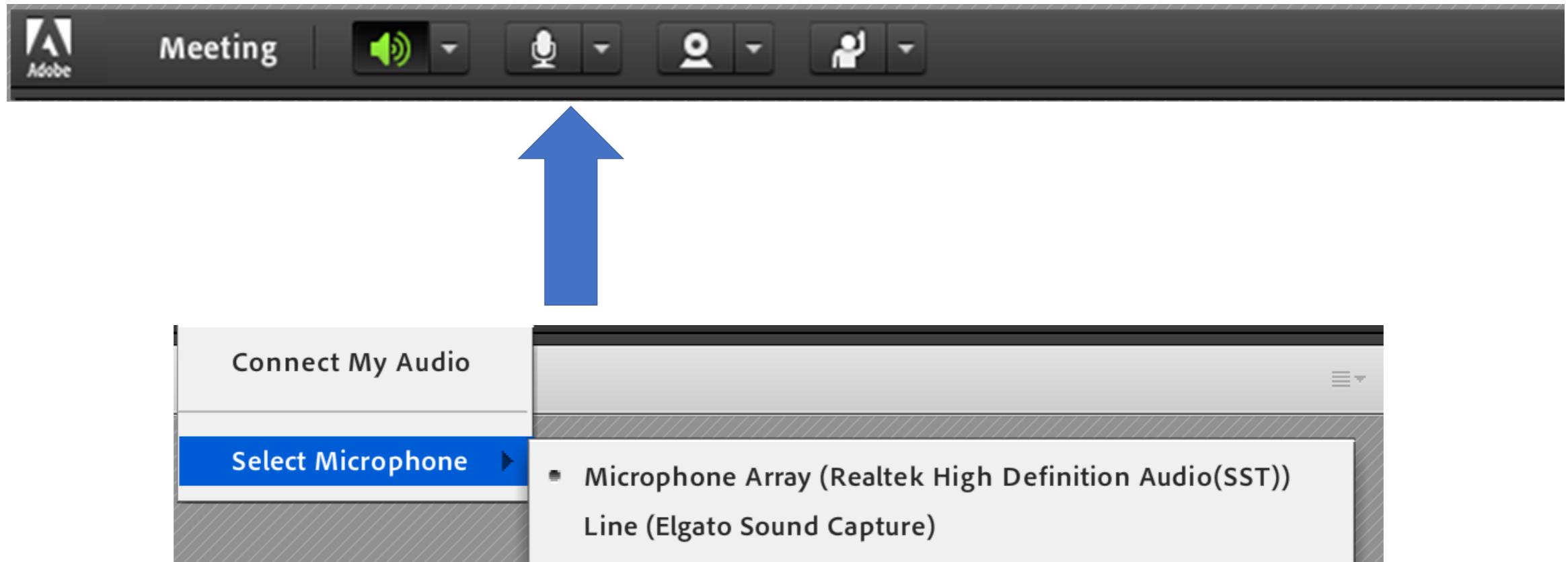
Adobe Connect Volume



Mute Speakers and Change Volume



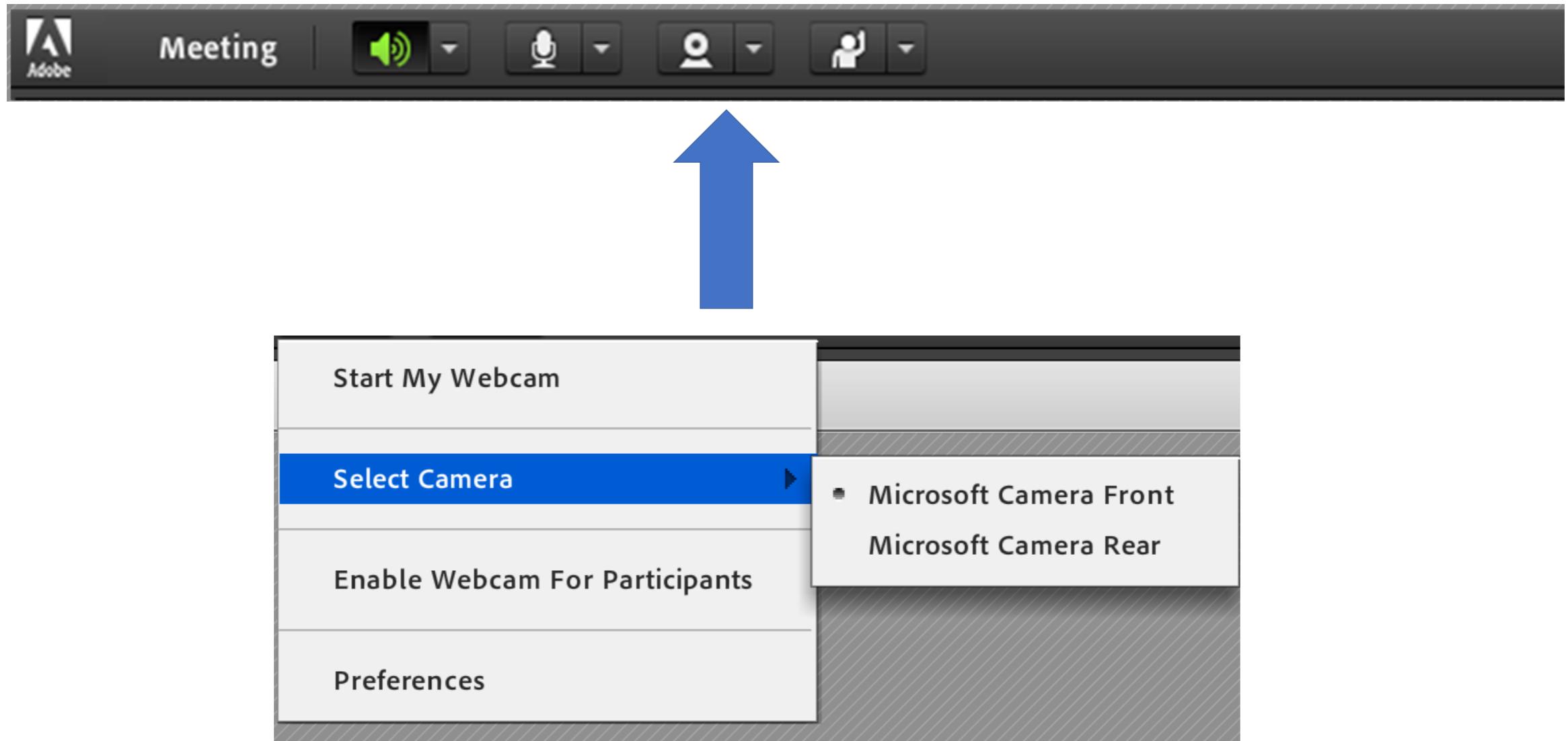
Adobe Connect Volume



Mute microphone or select audio source



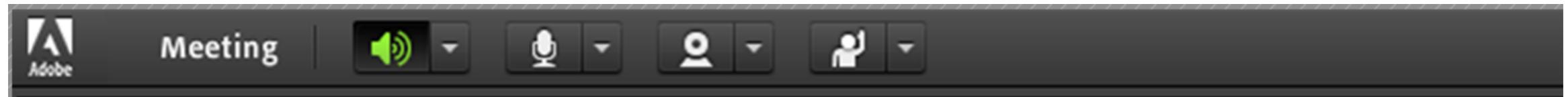
Adobe Connect Volume



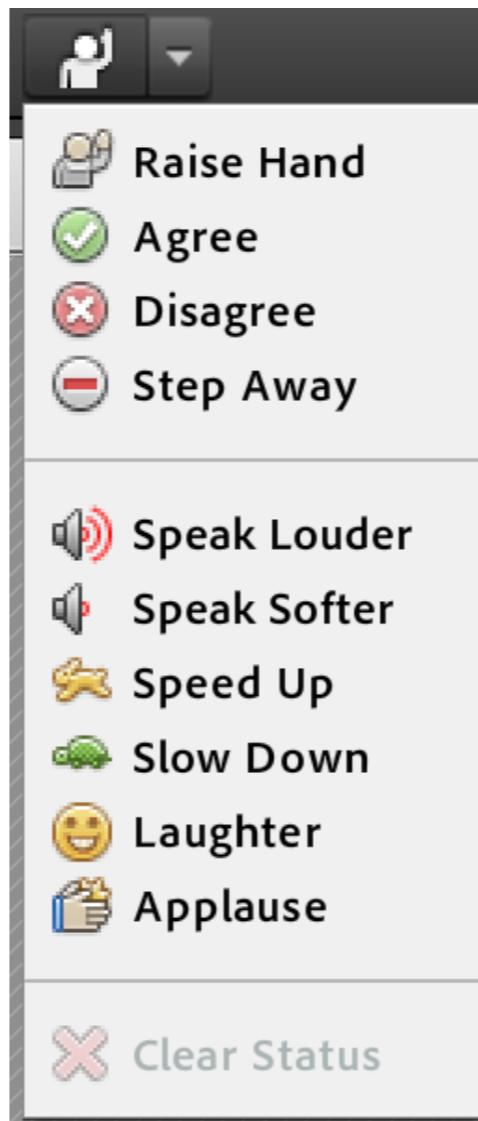
Mute microphone or select audio source



Adobe Connect Actions



Get the lecturer's attention or ask them to perform an action like Speak Louder or Slow Down





Maximise Area

Meeting Layouts Pods Audio Share Tutors } open Adobe Connect } wit email Share My Screen

Video (1)

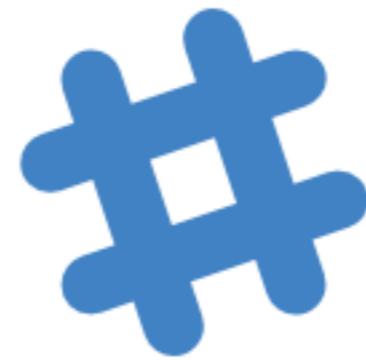
Eamonn Deleastar

Attendees (7)

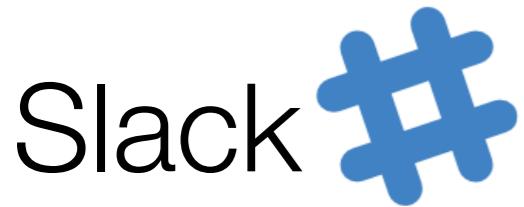
- Active Speakers
- Hosts (2)
 - Eamonn Deleastar
 - Peter Windle
- Presenters (0)
- Participants (5)
 - Brenda Mullally

Maximise screenshare area or
presenter video with the expand icon

Slack



Lab Tuition
Support + peer-
to-peer
communications
& self help



Slack – main things to remember



1. CHANNELS

The screenshot shows the Slack desktop application. On the left, the sidebar lists channels like 'WIT HDip in Co...', 'general', 'hdip-programming', 'hdip-webdev', 'prog_curriculum', and 'programming_test'. The 'programming_test' channel is selected and highlighted in green. In the main pane, a message from 'Colm Dunphy (WIT Lecturer)' is shown, containing code snippets and a drawing of a circle.

Today

16 //Drawing an circle
17 ellipse(250,130,25,25);
18

Here it is - "syntax error"
Diarmuid (WIT Lecturer) 1:59 PM
i got it ... let me have a look ... 1 sec
Colm Dunphy (WIT Lecturer) 1:59 PM
👍
Diarmuid (WIT Lecturer) 2:04 PM
Their is a small syntax error on line 12 - missing semicolon. see if that fixes it
Colm Dunphy (WIT Lecturer) 2:04 PM
let me try.thanks
Yes that got rid of the error
Colm Dunphy (WIT Lecturer) 2:06 PM
uploaded and commented on this image: [image.png](#)

Is this what the program should produce?
Diarmuid (WIT Lecturer) 2:09 PM
Lets continue this on DM. ok?
Colm Dunphy (WIT Lecturer) 2:09 PM
Yes

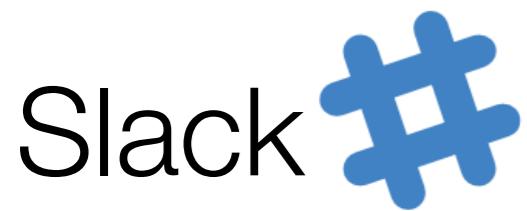
3. TYPE HERE

cdunphy ●
Lecturer
Edit Profile ⚙️ ▾

Status ⓘ What's your status?
Display name Colm Dunphy (WIT Lecturer)
Timezone 4:03 PM local time (change)
Email cdunphy@wit.ie
Role Owner of WIT HDip in Computer Science

2. DIRECT MESSAGES

4. CLICK TO SELECT FILES/CONTENT TO UPLOAD



lab00_solution_exercise1 | Processing 3.3.6

```
background(200);

//Drawing an ellipse
ellipse(200,100,20,60);

//Drawing a rectangle
rect(100,100,200,100);

//Drawing a square
rect(150,200,20,20);

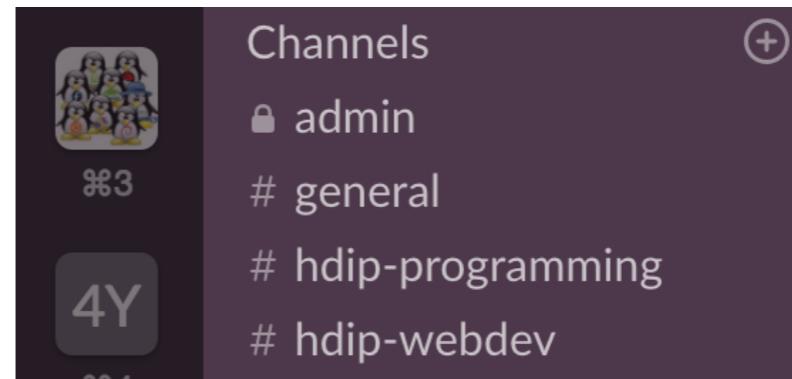
//Drawing a line
line(100,100,300,200);

//Drawing an circle
ellipse(250,130,25,25);
```

Syntax error, maybe a missing semicolon?

expecting SEMI, found 'line'

Console Errors



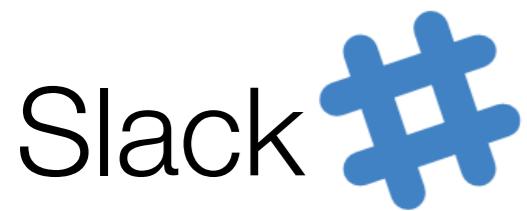
 cdunphy 1:54 PM
"I'm having trouble with ex 1 - syntax error"

 Diarmuid O Connor 1:55 PM
Ok. want to send me the code and i'll have a look

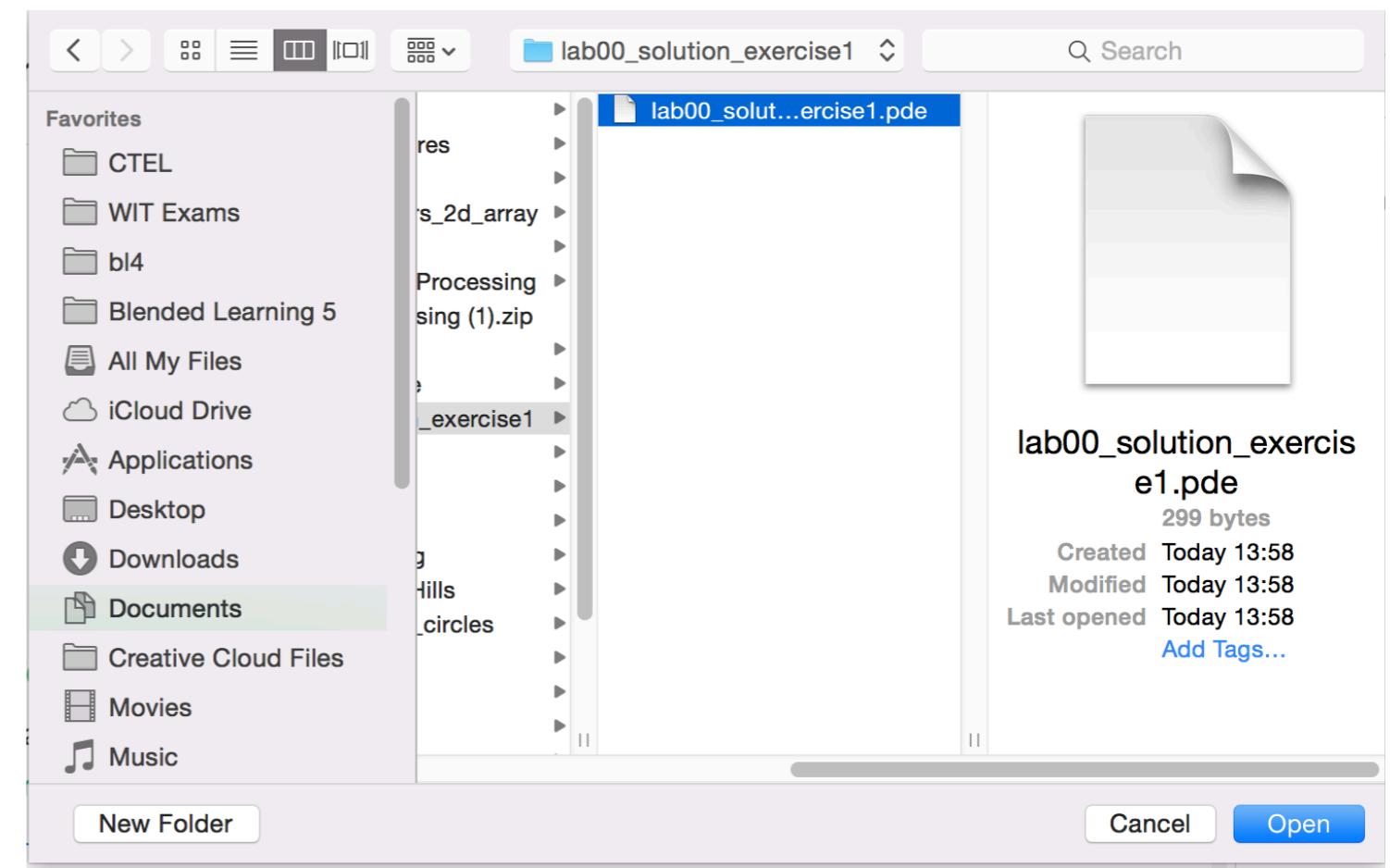
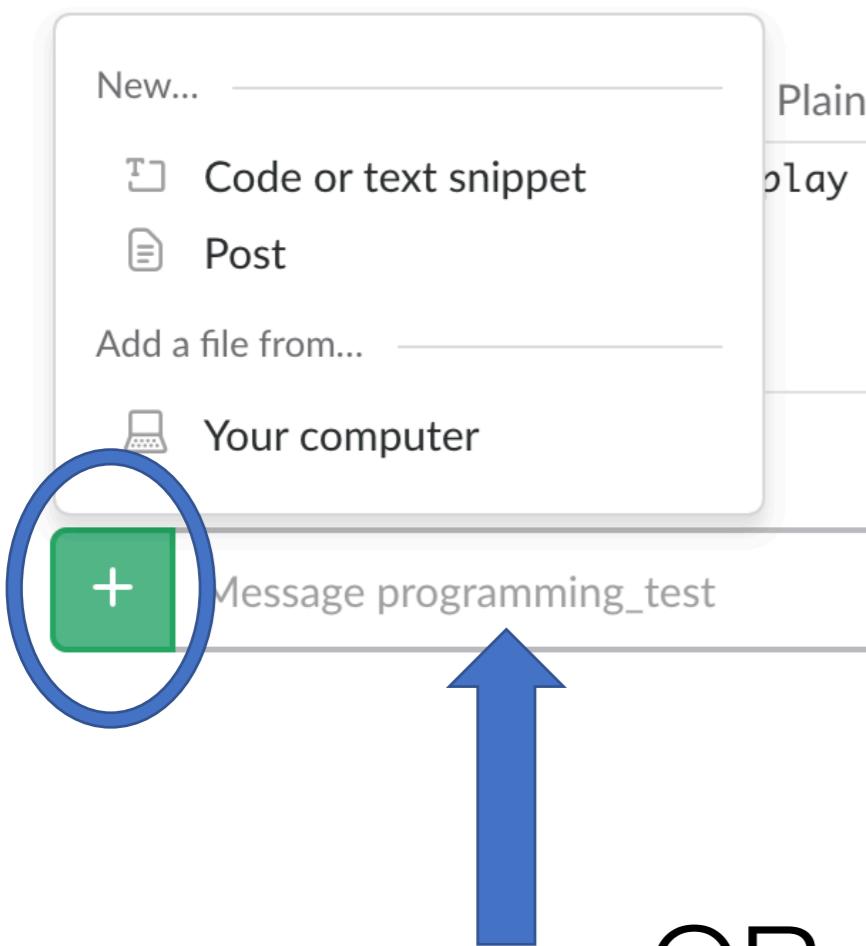
 cdunphy 1:55 PM
yes. 1 sec

+ Message programming_test

Select the
Channel in Slack
& post your issue

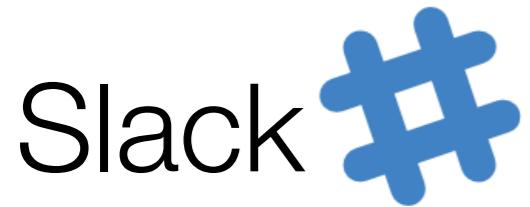


Uploading content for discussion



OR

drag n' drop the file to here



Simple issue resolved on chat text by peers or tutor

 **cdunphy** 1:59 PM ☆ added and commented on this Plain Text snippet: [lab00_solution_exercise1.pde](#) ▾

```
1 //Setting up the display window and strokeW
2 size(400,300);
3 background(200);
4
5 //Drawing an ellipse
```

+ Click to expand inline (18 lines)

   **1 Comment**

“ Here it is - “syntax error”

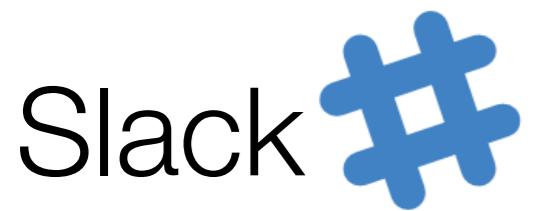
 **Diarmuid O Connor** 1:59 PM i got it ... let me have a look ... 1 sec

 **cdunphy** 1:59 PM 

 **Diarmuid O Connor** 2:04 PM Their is a small syntax error on line 12 - missing semicolon. see if that fixes it

 **cdunphy** 2:04 PM let me try.thanks

Yes that got rid of the error



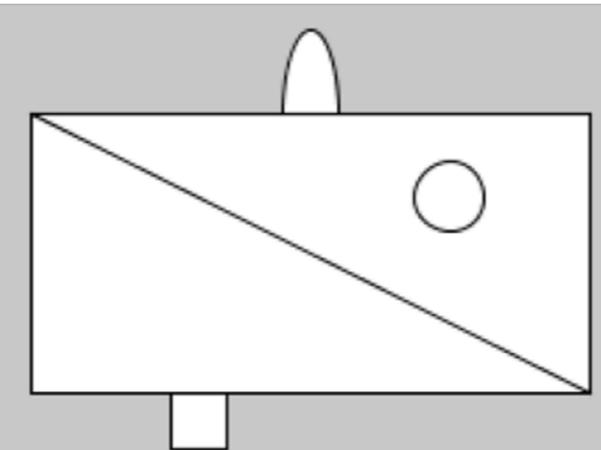
Private 1 on 1 help required -> Direct Message (DM)

Channels

- # hdip-programming
- # hdip-webdev
- 🔒 prog_curriculum
- programming_test**
- Direct Messages ⊕
- slackbot
- cdunphy (you)
- Des O'Donovan
- Diarmuid O Connor
- Eamonn de Leastar
- James
- Ken McCarthy
- Martina Mullally
- Niall Lonergan
- Pete (WIT)
- Siobhán Drohan
- + Invite People
- Apps ⊕

Yes that got rid of the error

cdunphy 2:06 PM uploaded and commented on this image: [image.png](#) ▾



“ Is this what the program should produce?

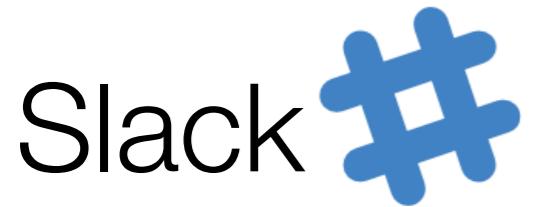
Diarmuid O Connor 2:09 PM Lets continue this on DM. ok?

cdunphy 2:09 PM Yes

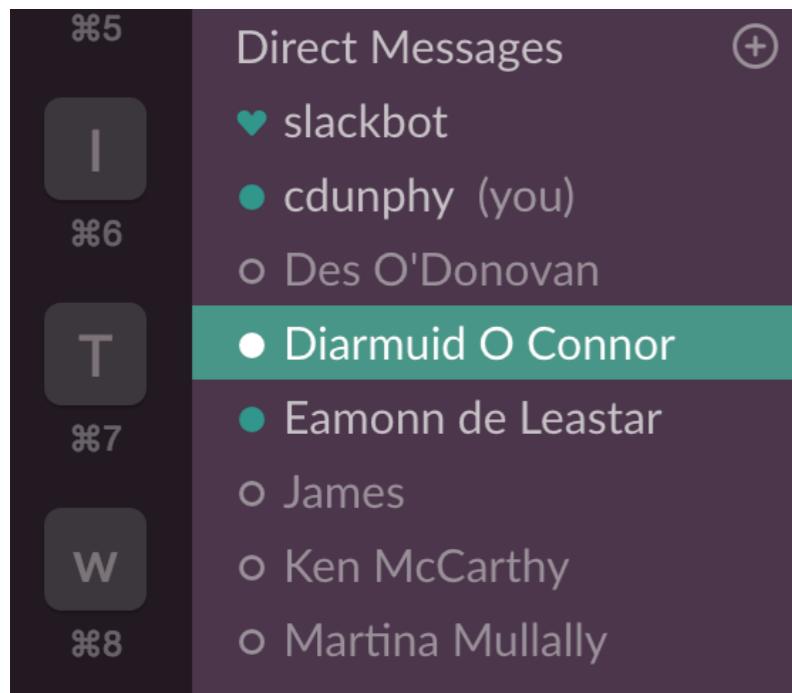
+ Message programming_test

Direct Messages ⊕

- slackbot
- cdunphy (you)
- Des O'Donovan
- Diarmuid O Connor**
- Eamonn de Leastar
- James
- Ken McCarthy
- Martina Mullally



Lecturer sharing screen (call required)



Diarmuid O Connor 2:10 PM ☆ hi again

cdunphy 2:10 PM I'm on the private DM channel now

Hi

Diarmuid O Connor 2:12 PM their is a small problem in your sketch. the ellipse at the top is partially hidden. Maybe we should screen share to continue?

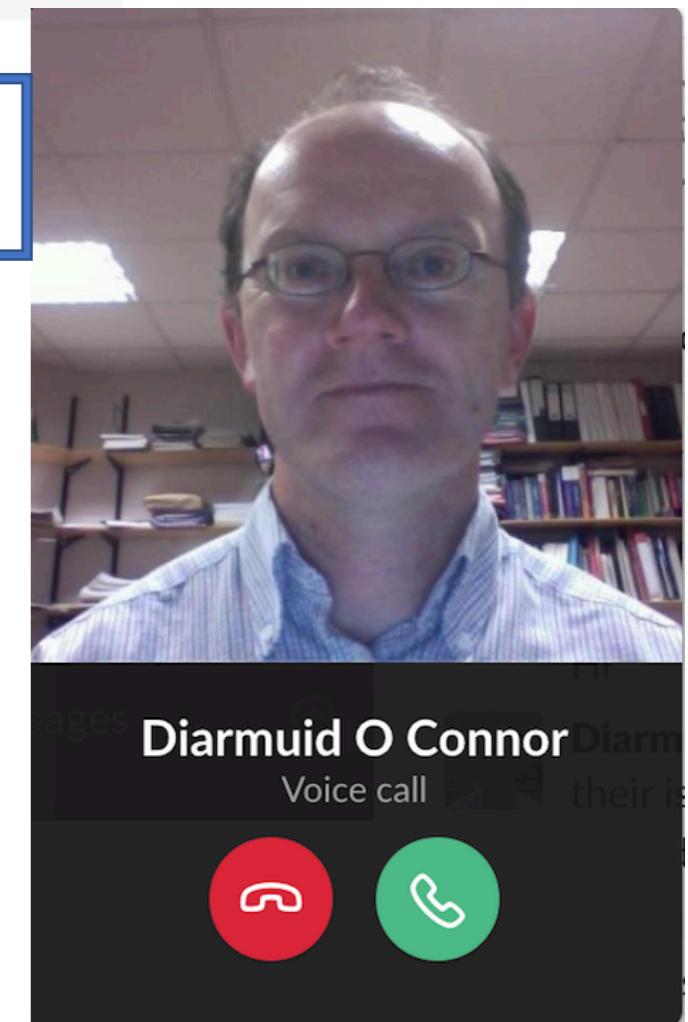
cdunphy 2:13 PM Thanks Diarmuid

Diarmuid O Connor 2:13 PM i will call you

cdunphy 2:13 PM fire away

Diarmuid O Connor 2:14 PM Started a call ▾

Diarmuid O Connor is calling you
Started at 2:14 PM



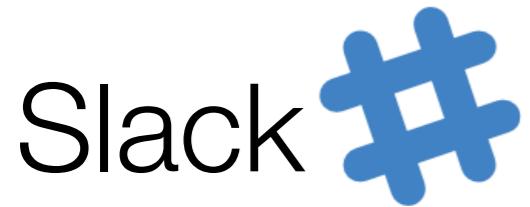
Slack #



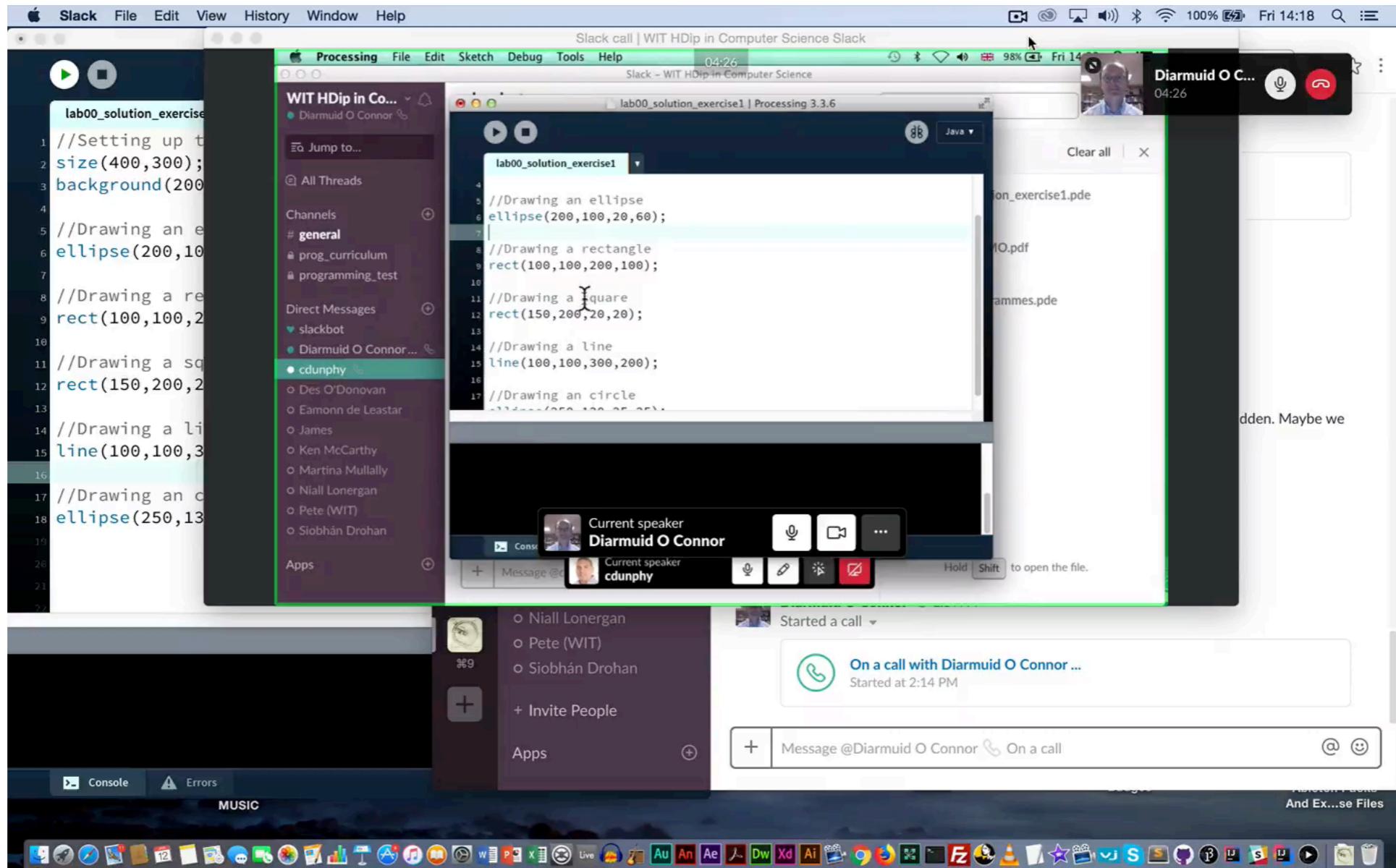
Mic

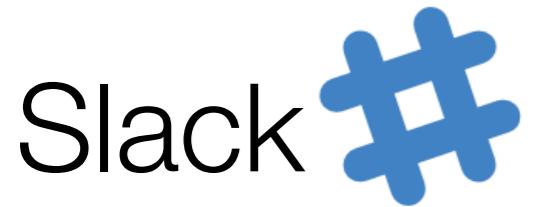
Video
Webcam

Screen
Desktop

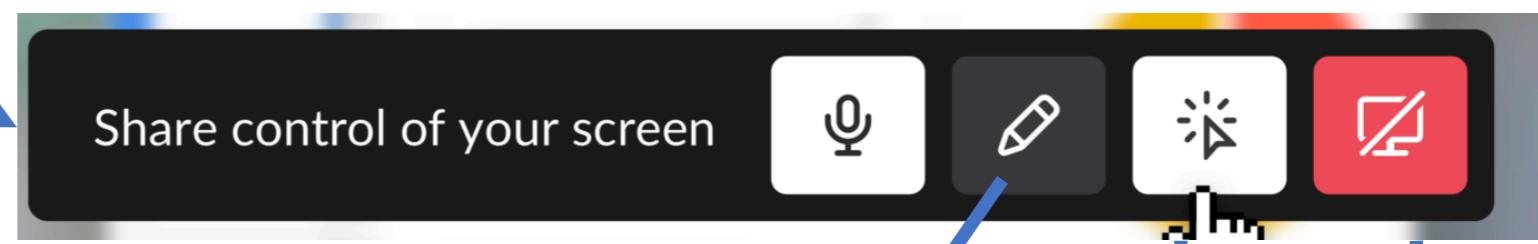
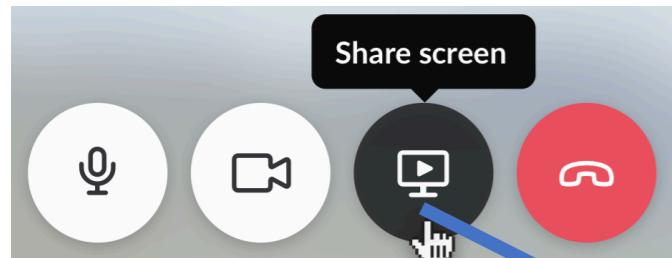


Call in Progress with lecturer's screen shared (call required)





Student screen sharing options



Enable
others to
draw on
your screen

Stop
Sharing
Full
Control

Moodle



WIT E-Learning
Platform

Used for Assignment
Submission +
feedback + grades

Occasionally used for
additional document
distribution



Supplementary Programme Information Area

moodle.wit

Eamonn Deleastar
Student-2017-2018



Table Of Contents



Programme Information

Programming Fundamentals

Web Development

Administration



Module administration

Grades

Question bank

Competencies

Switch role to...



Higher Diploma in Computer Science

[My Home](#) / [Higher Diploma in Computer Science](#)

Programme Information

Jump to...

NEXT SECTION

[Programming Fundamentals](#) >





Programming Fundamentals

Assignment Submissions

moodle.wit

Eamonn Deleastar
Student-2017-2018

Grades

Table Of Contents □

Programme Information

Programming Fundamentals

Web Development

Administration □

Module administration

Grades

Question bank

Competencies

Switch role to...

Return to my normal role

Higher Diploma in Computer Science

My Home / Higher Diploma in Computer Science / Programming Fundamentals

Programming Fundamentals

Assignment Drop Boxes

Assignment 1

Submit

Assignment 2

Submit

Assignment 3

Submit

PREVIOUS SECTION [Programme Information](#)

NEXT SECTION [Web Development](#)



Web Development Assignment Submissions

Grades

The screenshot shows a Moodle course interface. On the left, a sidebar menu includes 'Table Of Contents', 'Programme Information', 'Programming Fundamentals', and 'Web Development' (which is selected). Below this is another sidebar for 'Administration' with options like 'Module administration' (selected), 'Question bank', 'Competencies', 'Switch role to...', and 'Return to my normal role'. A large grey arrow points from the word 'Grades' to the 'Administration' sidebar. The main content area displays the course title 'Higher Diploma in Computer Science' with a historical engineering illustration, the breadcrumb 'My Home / Higher Diploma in Computer Science / Web Development', and the course name 'Web Development'. It lists 'Assignment Drop Boxes' for 'Assignment 1' and 'Assignment 2', each with a 'Submit' button. At the bottom, there's a 'PREVIOUS SECTION' link to 'Programming Fundamentals'.

Table Of Contents

Programme Information

Programming Fundamentals

Web Development

Administration

Module administration

Grades

Question bank

Competencies

Switch role to...

Return to my normal role

Higher Diploma in Computer Science

My Home / Higher Diploma in Computer Science / Web Development

Web Development

Assignment Drop Boxes

Assignment 1

Submit

Assignment 2

Submit

PREVIOUS SECTION

Programming Fundamentals