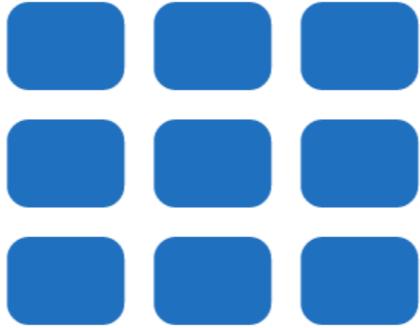
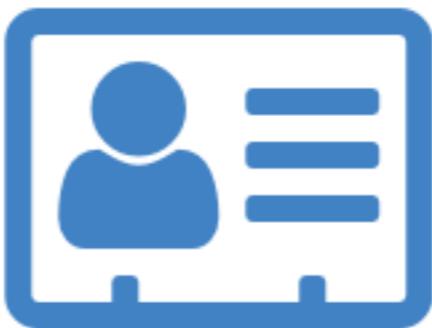


Overview of Structure & Purpose of the Online Materials

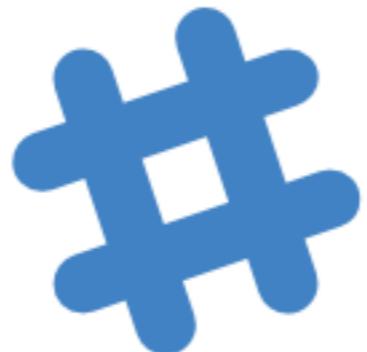
Tutors



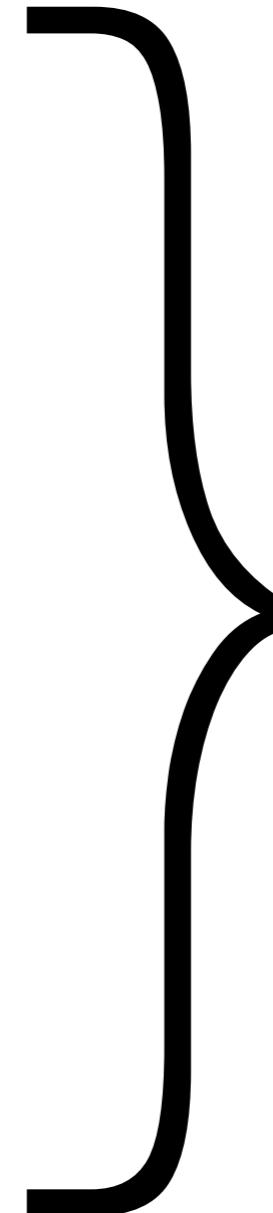
Adobe Connect



Slack

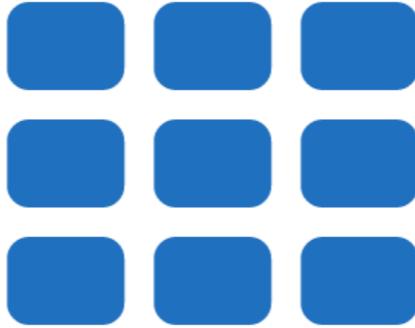


Moodle



4 Key Web
Services

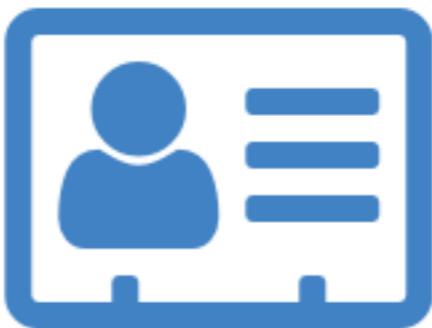
Tutors



}

open

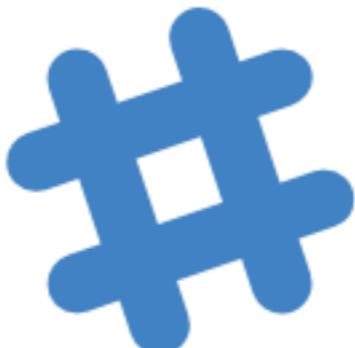
Adobe Connect



}

wit email

Slack



}

wit email

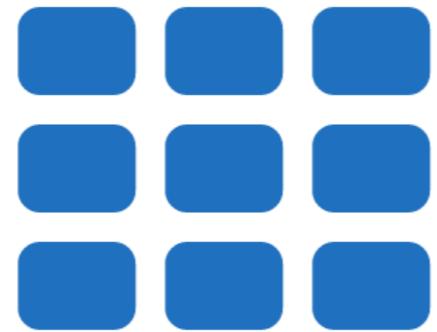
Moodle



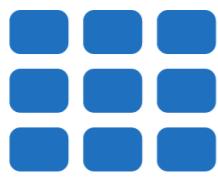
}

wit email

Tutors



Primary location
of module
lectures, lab and
video material



Programme Home Page

Links to all resources + Modules

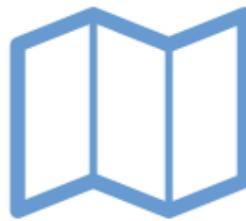
Higher Diploma in Computer Science 2018

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

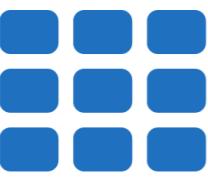


javascript · node · express ·
git · github · glitch

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

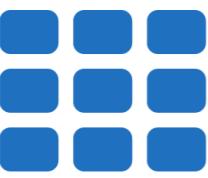
ICT Skills Studio



javascript · node · express · git · github · glitch

5 Credits

Links to Individual Module
Home Pages



Programme
Home

Adobe
Connect

Moodle

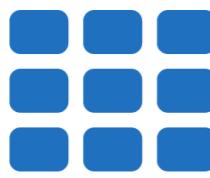
Slack



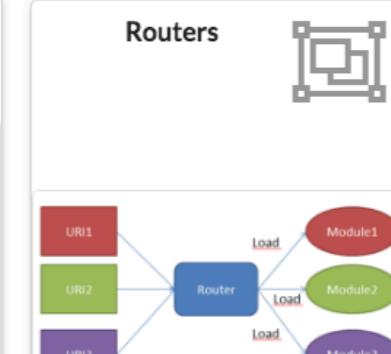
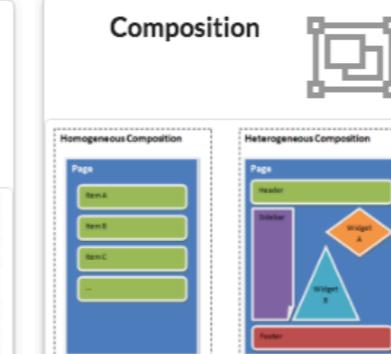
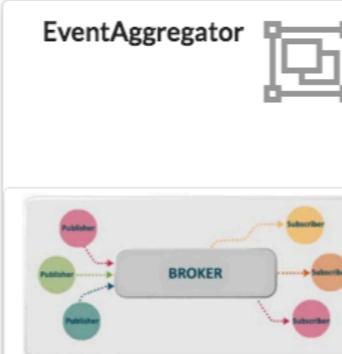
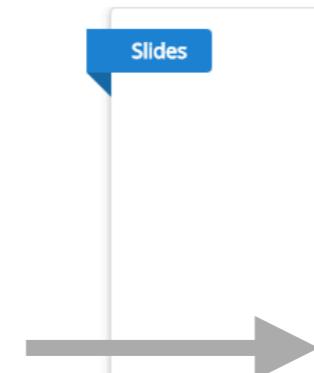
Topic

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, OAuth, 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.



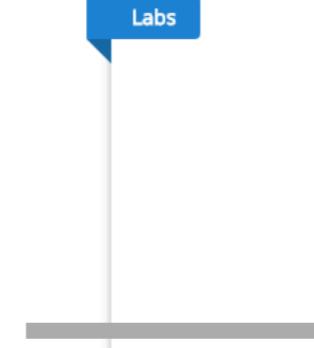
PDFs of Slides



Videos of Talk Accompanying Slides



Labs





Module Lab

Lab Steps + Exercises



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
```

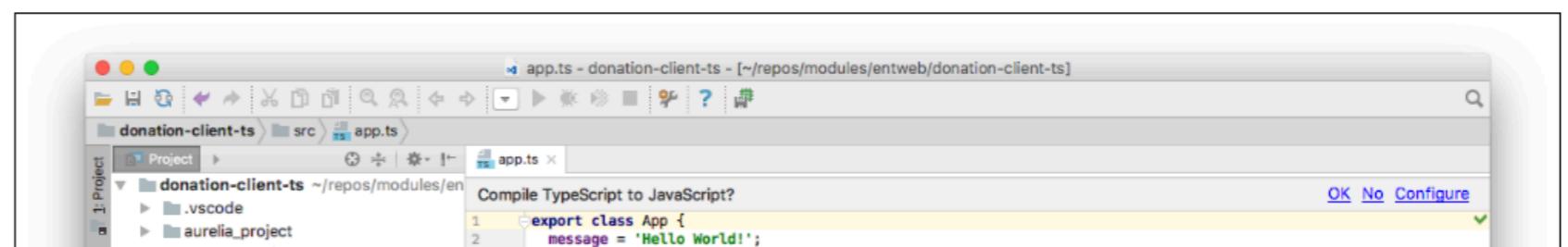
Make sure to select [2] for typescript:

```
[~/repos/modules/entweb/donation-client-ts] % au new donation-client-ts  
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'



Lab Instructions

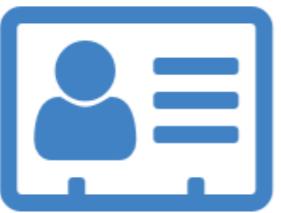


Adobe Connect



Live Webinars
Delivery

Adobe Connect



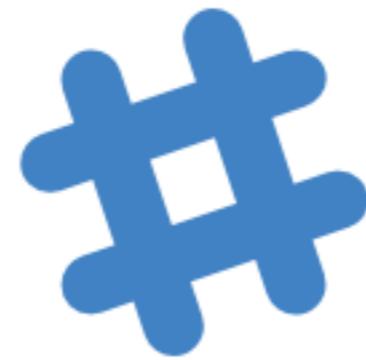
Presenter

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.

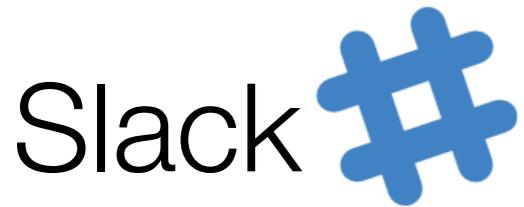
Topic Slides of
demonstrations

Attendees + chat

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 and a syntax error. A file named 'image.png' was uploaded and commented on, showing a simple drawing of a circle inside a rectangle. The message history continues with interactions between Diarmuid and Colm.

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

The right side of the screenshot shows the profile of 'cdunphy' (Colm Dunphy), including his role as a Lecturer, status, display name, timezone, email, and role information.

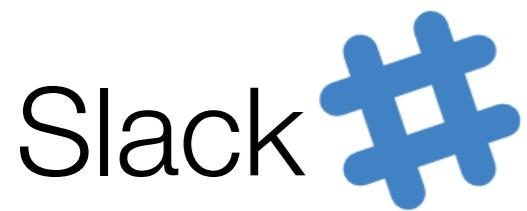
2. DIRECT MESSAGES

The screenshot shows the Slack desktop application. On the left, the sidebar lists direct messages with 'slackbot', 'Colm Dunphy (WIT Lecturer)', and other team members. A message from 'Colm Dunphy (WIT Lecturer)' is shown, asking if the program produced the correct output. The message input field at the bottom is highlighted with a blue border and contains the text '3. TYPE HERE'.

slackbot
Colm Dunphy (WIT Lecturer)
Des O'Donovan
Diarmuid (WIT Lecturer)
Eamonn de Leistar (WI...
James
Ken McCarthy
Martina Mullally
Niall Lonergan
Pete (WIT Support)
Siobhán Drohan
+ Invite People

+ Message programming_test 3. TYPE HERE @ 😊

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);

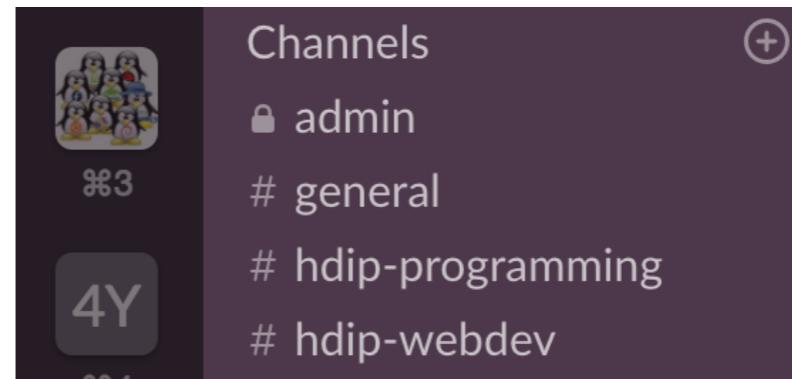
//Drawing a line
line(100,100,300,200);

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

Syntax error, maybe a missing semicolon?

expecting SEMI, found 'line'

Console Errors



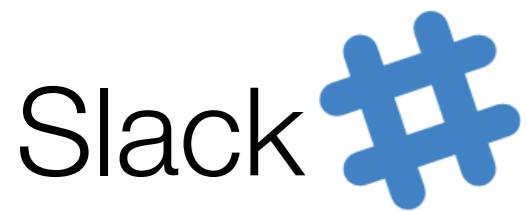
cdunphy 1:54 PM
"I'm having trouble with ex 1 - syntax error"

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

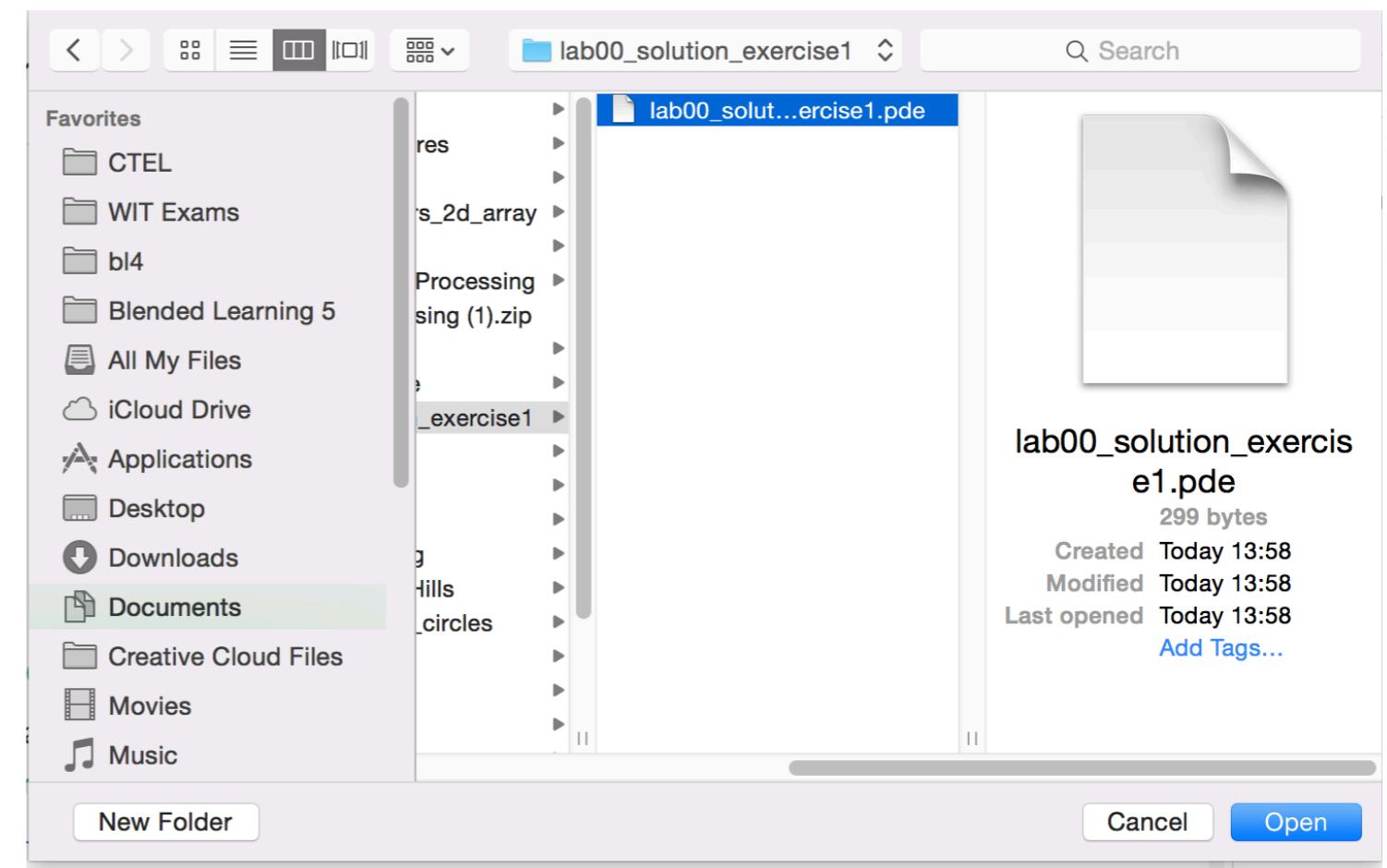
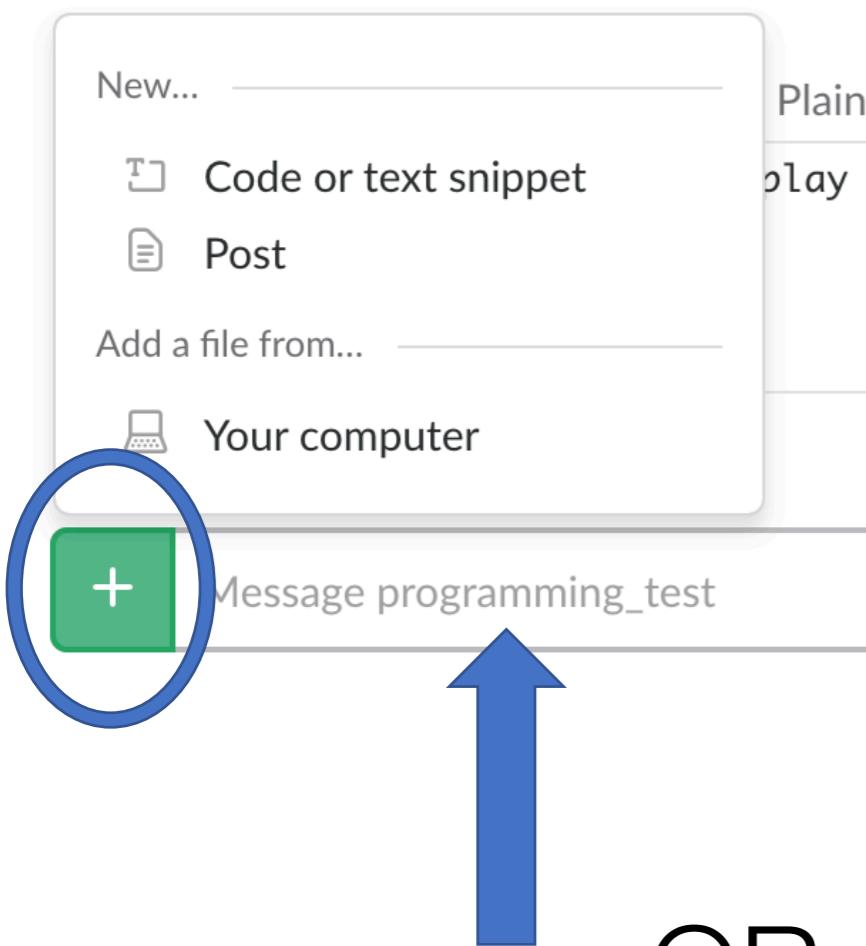
cdunphy 1:55 PM
yes. 1 sec

+ Message programming_test

Select the
Channel in Slack
& post your issue

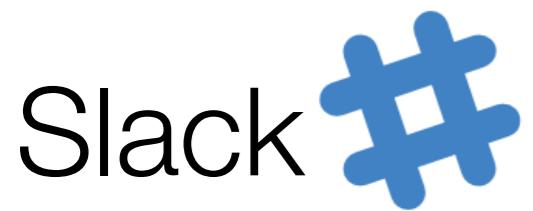


Uploading content for discussion



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”

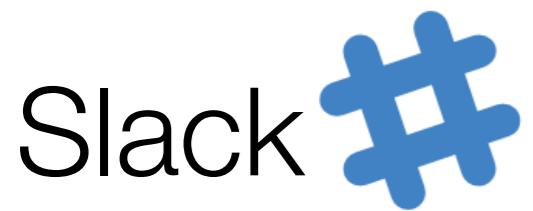
 **Diarmuid O Connor** 1:59 PM i got it ... let me have a look ... 1 sec

 **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



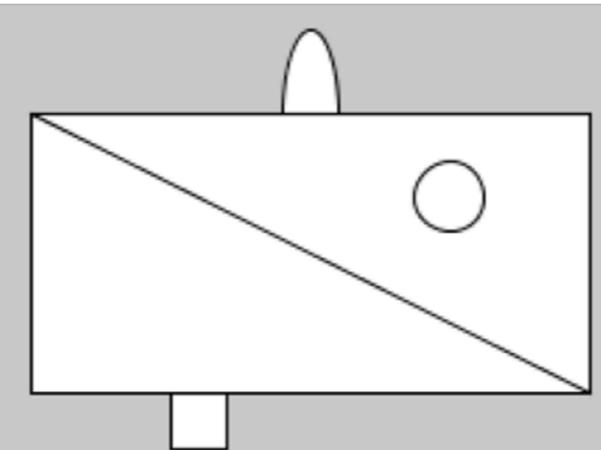
Private 1 on 1 help required -> Direct Message (DM)

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?

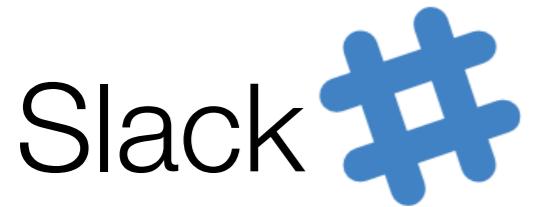
Diarmuid O Connor 2:09 PM Lets continue this on DM. ok?

cdunphy 2:09 PM Yes

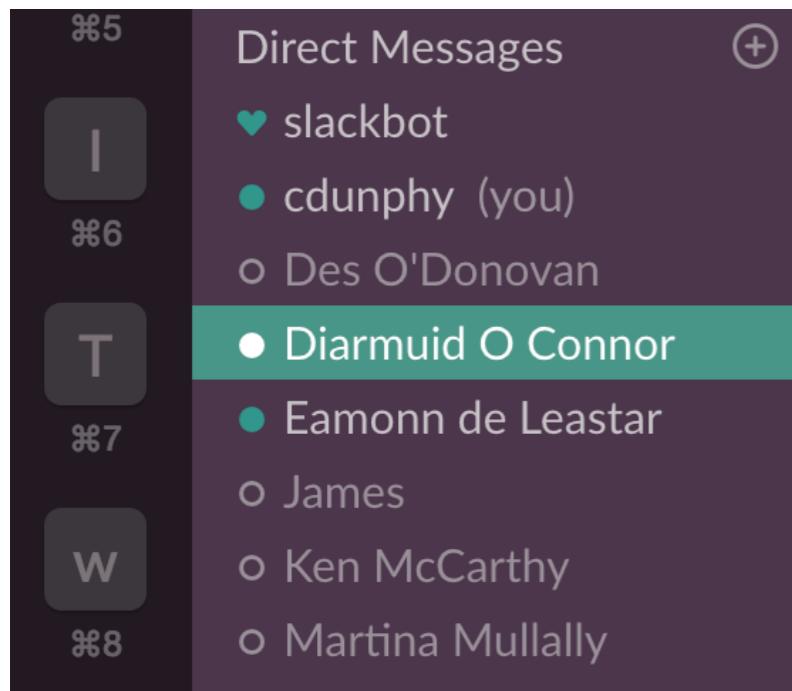
+ Message programming_test

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
there is a small problem in your sketch. the ellipse at the top is partially hidden. Maybe we should screen share to continue?

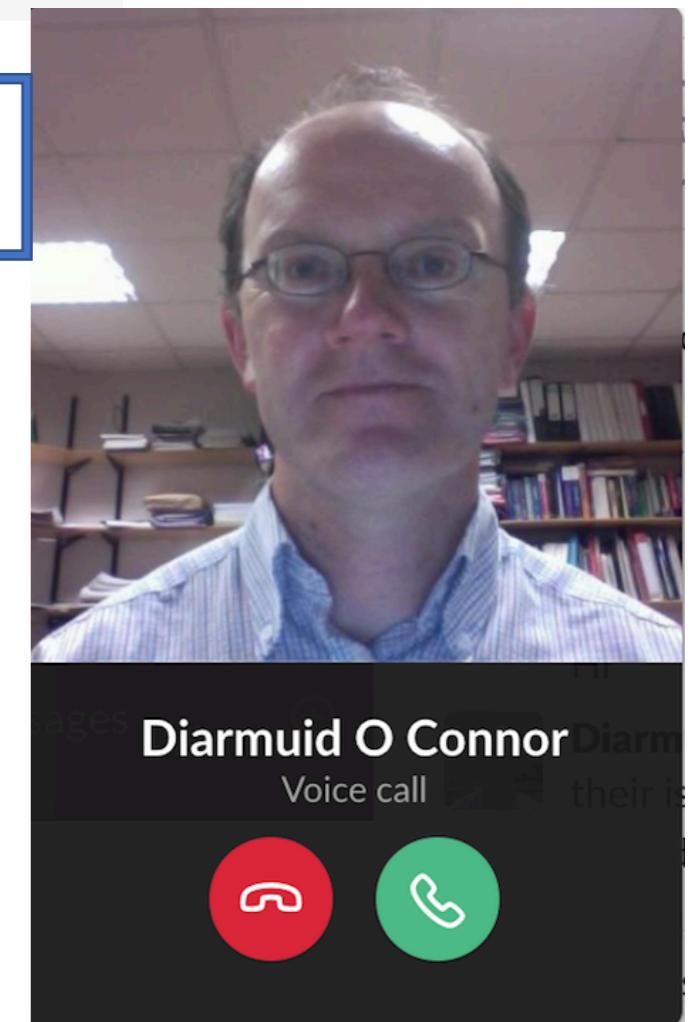
cdunphy 2:13 PM
Thanks Diarmuid

Diarmuid O Connor 2:13 PM
i will call you

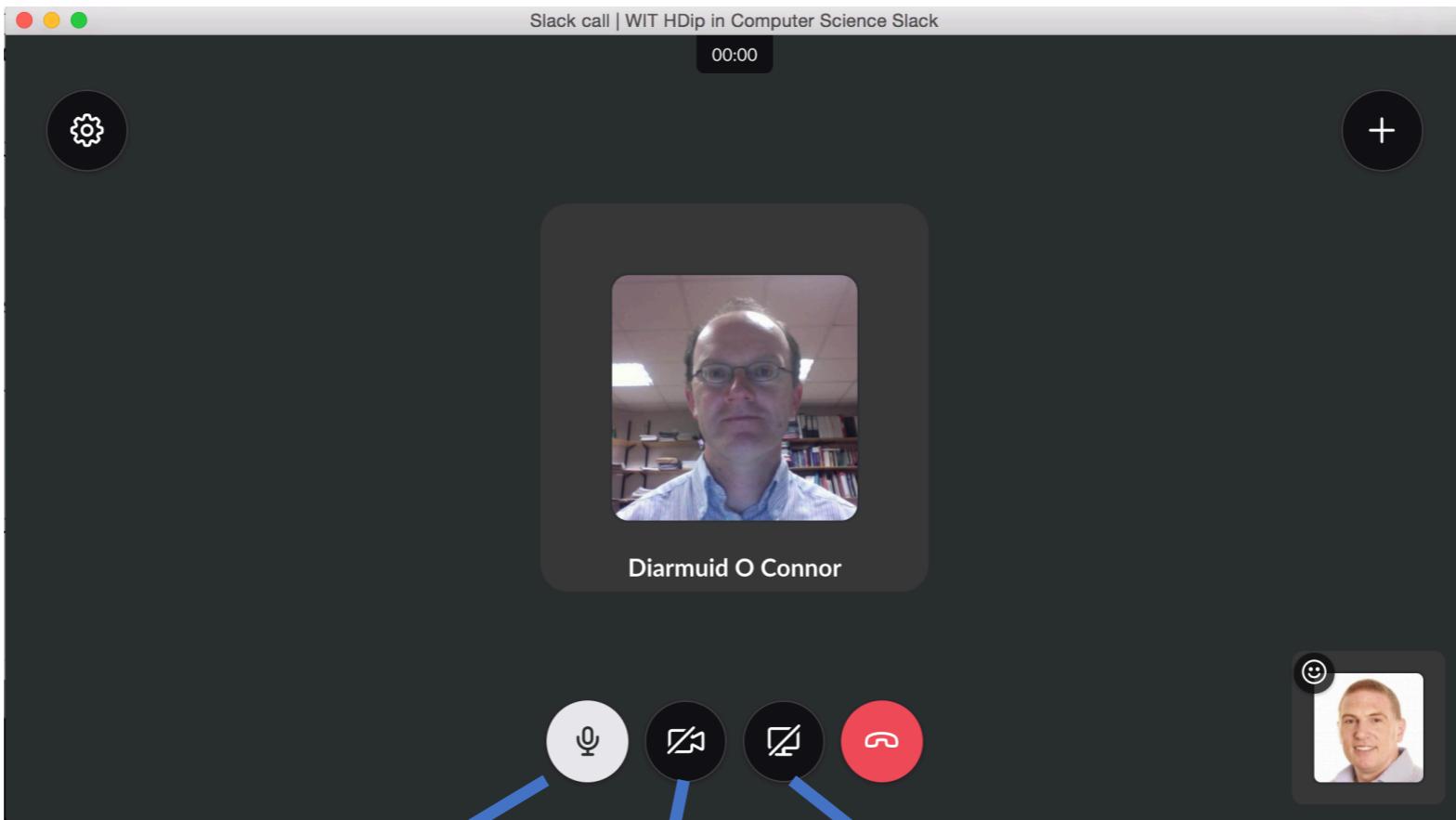
cdunphy 2:13 PM
fire away

Diarmuid O Connor 2:14 PM
Started a call ▾

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



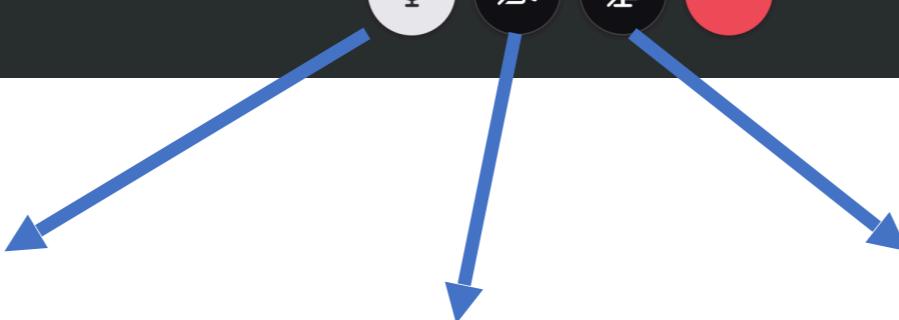
Slack #

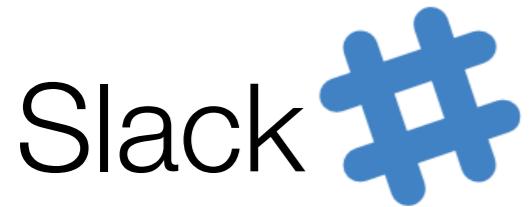


Mic

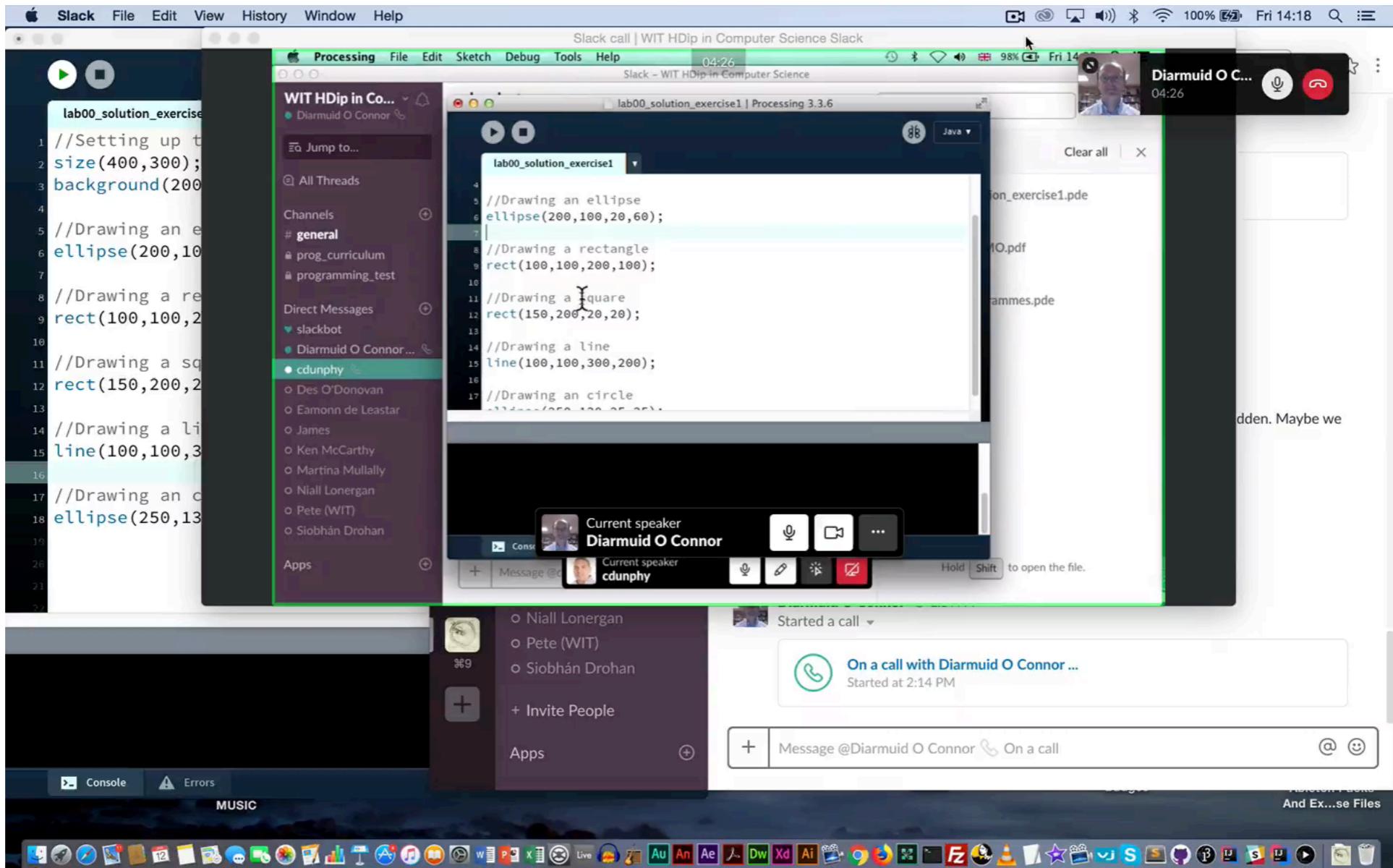
Video
Webcam

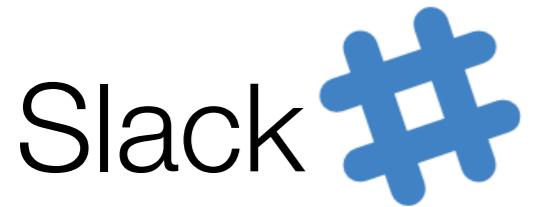
Screen
Desktop



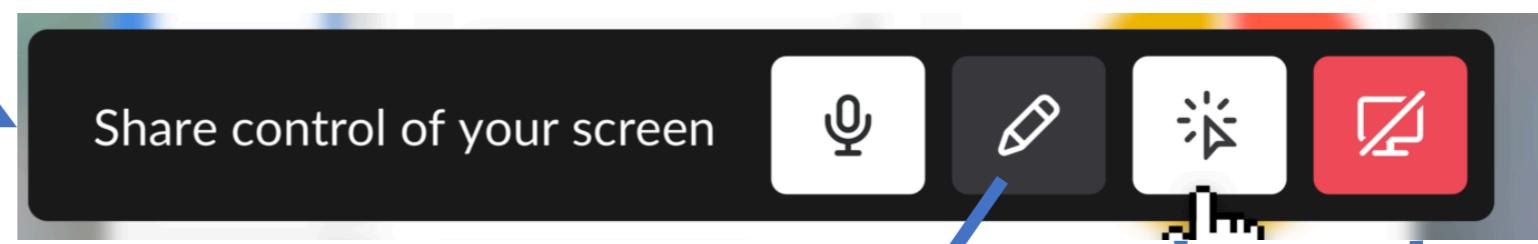
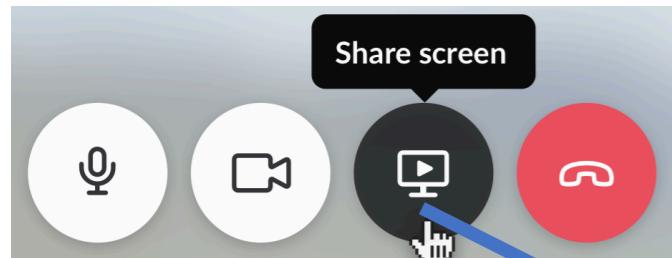


Call in Progress with lecturer's screen shared (call required)





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 has a header 'Higher Diploma in Computer Science' with a profile picture of a person in historical attire. The breadcrumb navigation shows 'My Home / Higher Diploma in Computer Science / Web Development'. The main content area displays 'Web Development' and 'Assignment Drop Boxes'. It lists two assignments: 'Assignment 1' with a 'Submit' button and 'Assignment 2' with a 'Submit' button. At the bottom, there is a link 'PREVIOUS SECTION Programming Fundamentals' with a back arrow.

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