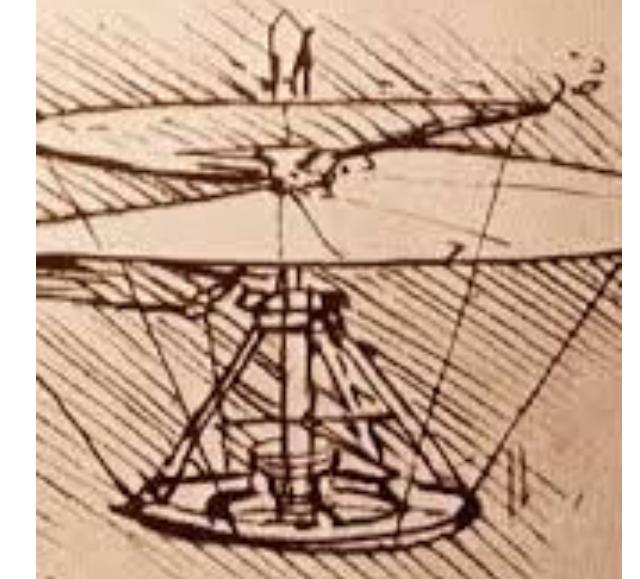




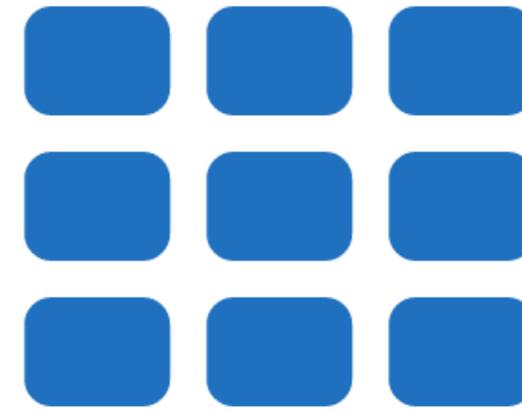
Waterford Institute of Technology
INSTITIÚID TEICNEOLAÍOCHTA PHORT LÁIRGE



Higher Diploma in Science in Computer Science

Overview of Structure & Purpose of the Online Materials

Tutors



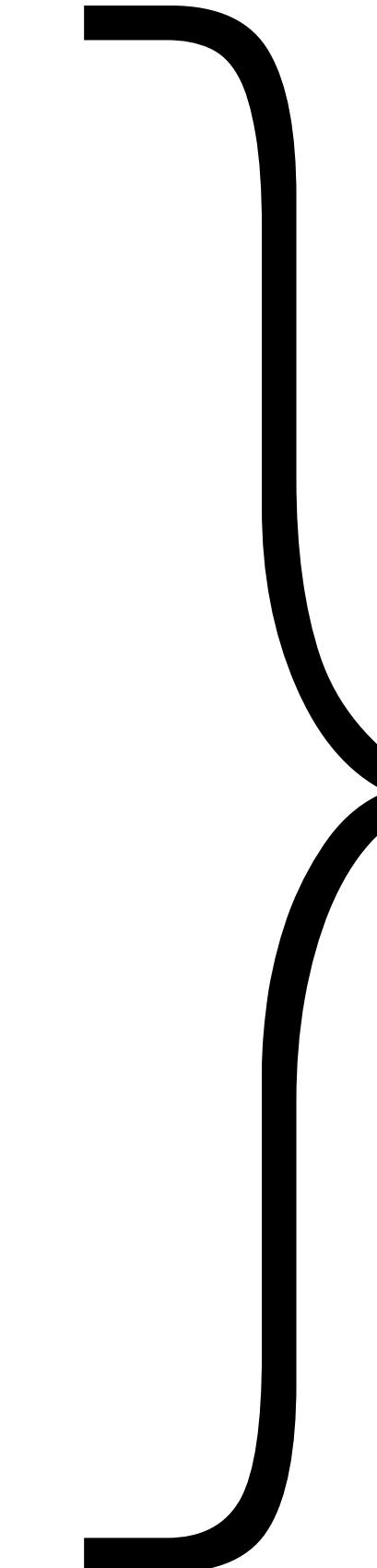
Slack



Moodle

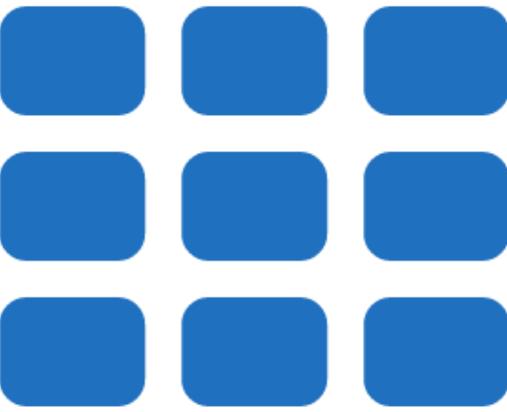


Youtube



4 Key Web
Services

Tutors



}

open

Slack



}

personal email

Moodle



}

wit email

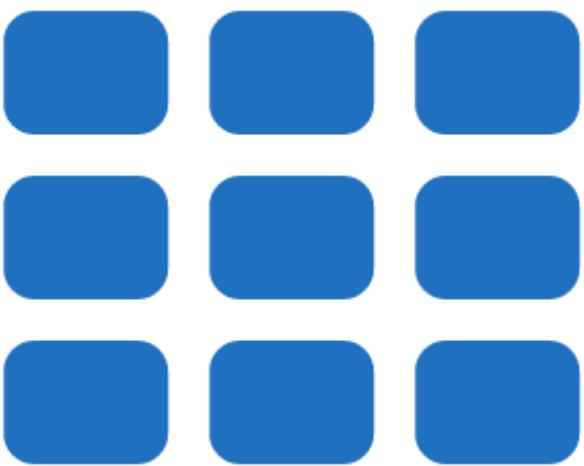
Youtube



}

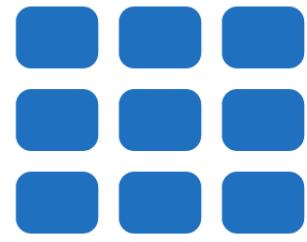
open

Tutors



Primary location
of module
lectures, lab and
video material

Tutors



<https://wit-hdip-comp-sci-2019.github.io>

Programme
Home Page

Links to all
resources +
Modules

The screenshot shows the homepage of the website for the Higher Diploma in Computer Science 2019. At the top, there is a header with the title "Higher Diploma in Computer Science 2019" and the subtitle "Department of Computing & Mathematics, WIT". Below the header, there is a section for "Semester 1: January - June, 2019". Three modules are listed: "Programming" (10 Credits), "Web Development" (5 Credits), and "Skills Studio 1" (2.5 Credits). Each module has a description and a list of topics. The "Programming" module features three green gears, "Web Development" features a teal smartphone icon, and "Skills Studio 1" features a yellow hand icon.

Higher Diploma in Computer Science 2019

Department of Computing & Mathematics, WIT

Semester 1: January - June, 2019

Programming  10 Credits

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

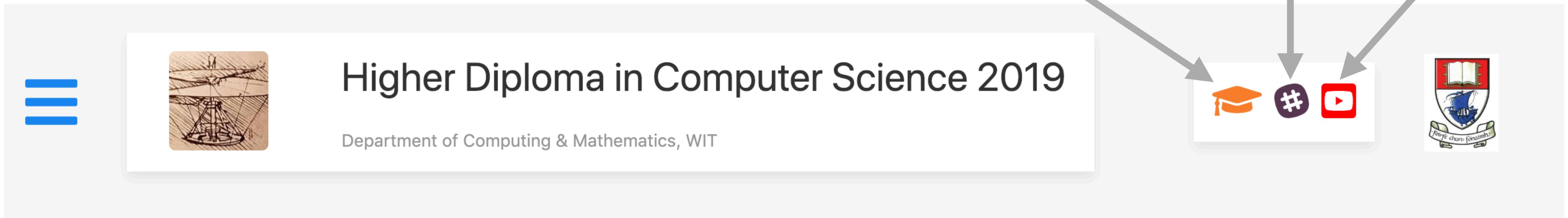
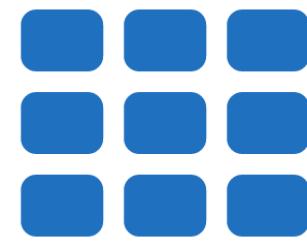
Web Development  5 Credits

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

Skills Studio 1  2.5 Credits

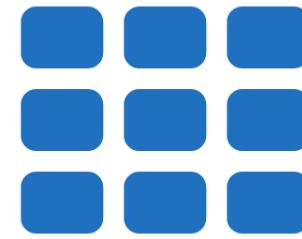
javascript · node · express · git · github · glitch

Tutors



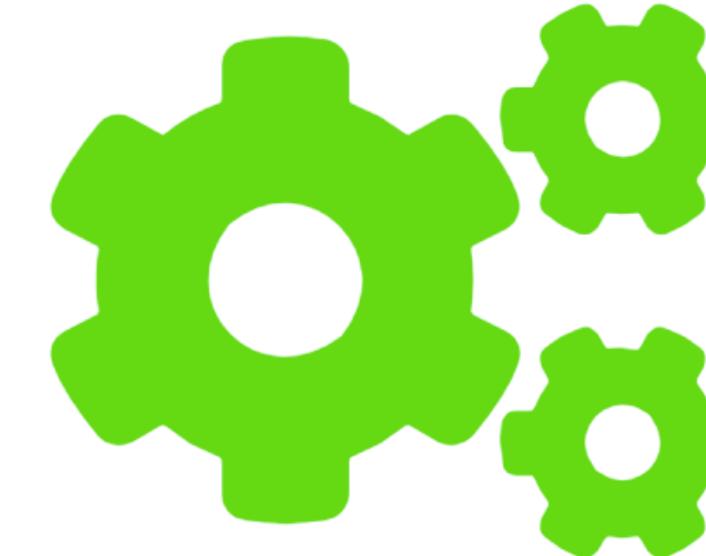
<https://wit-hdip-comp-sci-2019.github.io>

Tutors



Semester 1: January - June, 2019

Programming



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

10 Credits

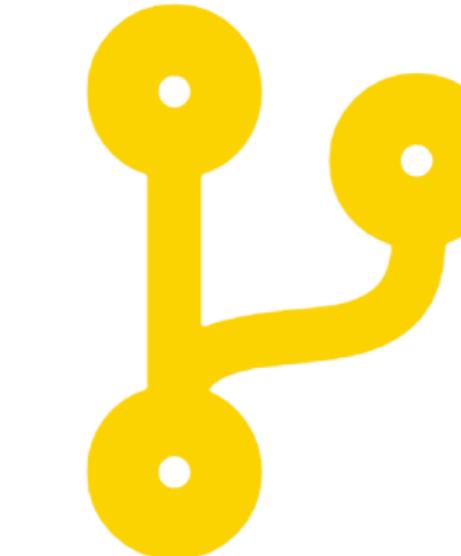
Web Development



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

5 Credits

Skills Studio 1

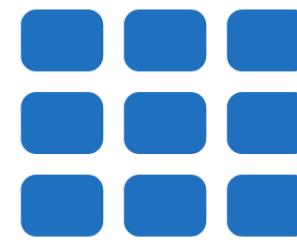


javascript · node · express ·
c · github · glitch

2.5 Credits

Links to Individual Module
Home Pages

Tutors



Module Home



Web Development

Eamonn de Leastar, Annetta Stack, WIT



00:
Assignment
Specifications



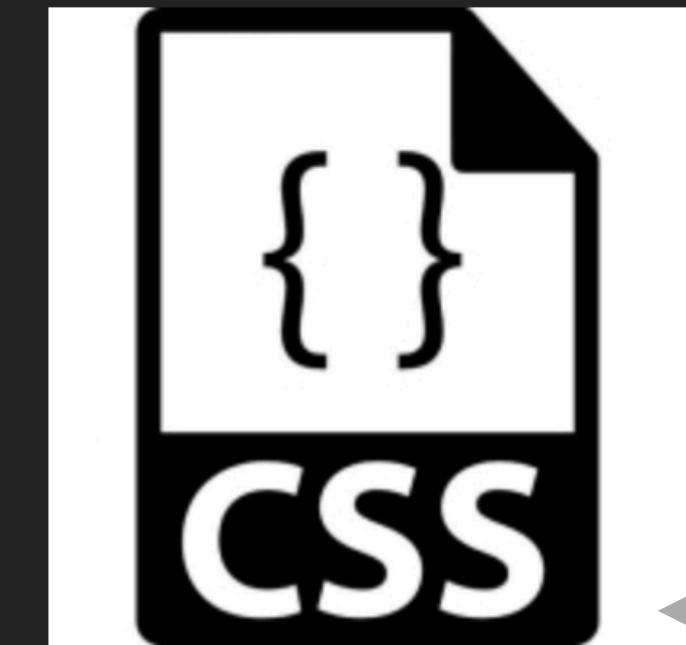
00: Module
Overview



01: Introducing
HTML



02: Introducing
CSS



Topic



specifications · assignments 1 ·
assignment 2 · grading
guidelines · schedule ·
submission

topics · schedules · calendar ·
assignments · first lab

web · client/server · browser ·
html · documents · elements ·
attributes · links ·images · page
structure · nesting ·
wireframing · block · inline

markup · style · function ·
stylesheet · rules · selectors ·
declarations · properties ·
values · classes · ids ·
inheritance

Programme
Home

Moodle

Youtube

Slack

all slides
shortcut

all lab
shortcut



Current
Topic



Single topic
(1 week)

04: Navigation, Semantics & Style Guides

Navigation

HTML Style Guide



indentation · encoding · doctype · validity · semantics · entities · type attributes · quotations

Navigation



nav · tab · current · padding · border · menu · li · ul

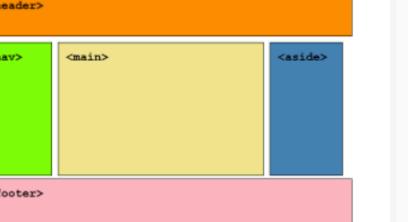
Lab-4a Navigation



nav · tab · current · padding · border · menu · li · ul

Semantic HTML

Semantic HTML



header · main · nav · aside · article · footer · section · figure

CSS Style Guide



validity · names · name style · selectors · shorthand · delimiters · order · stops · quotations

Lab-4b Case Study



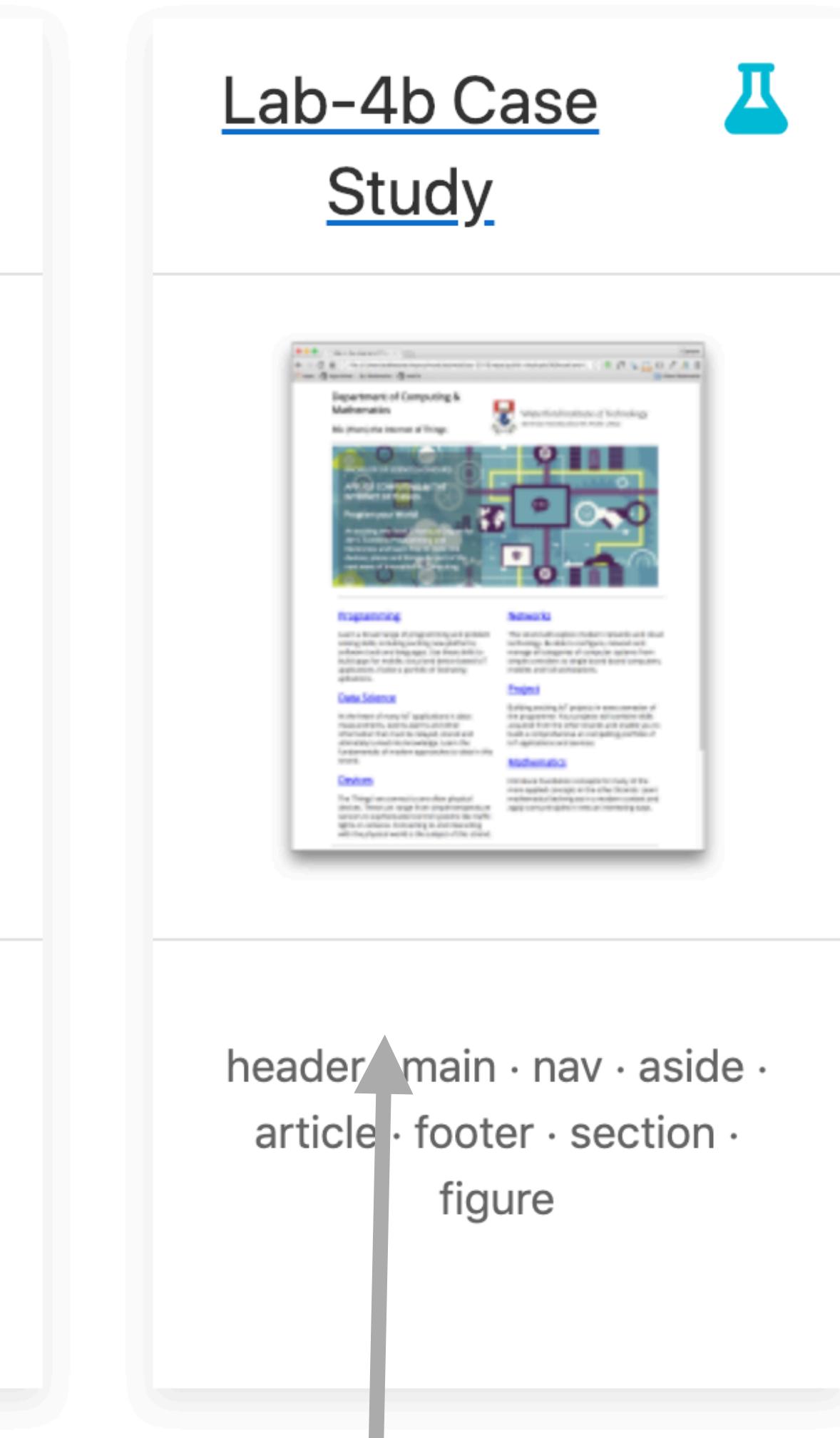
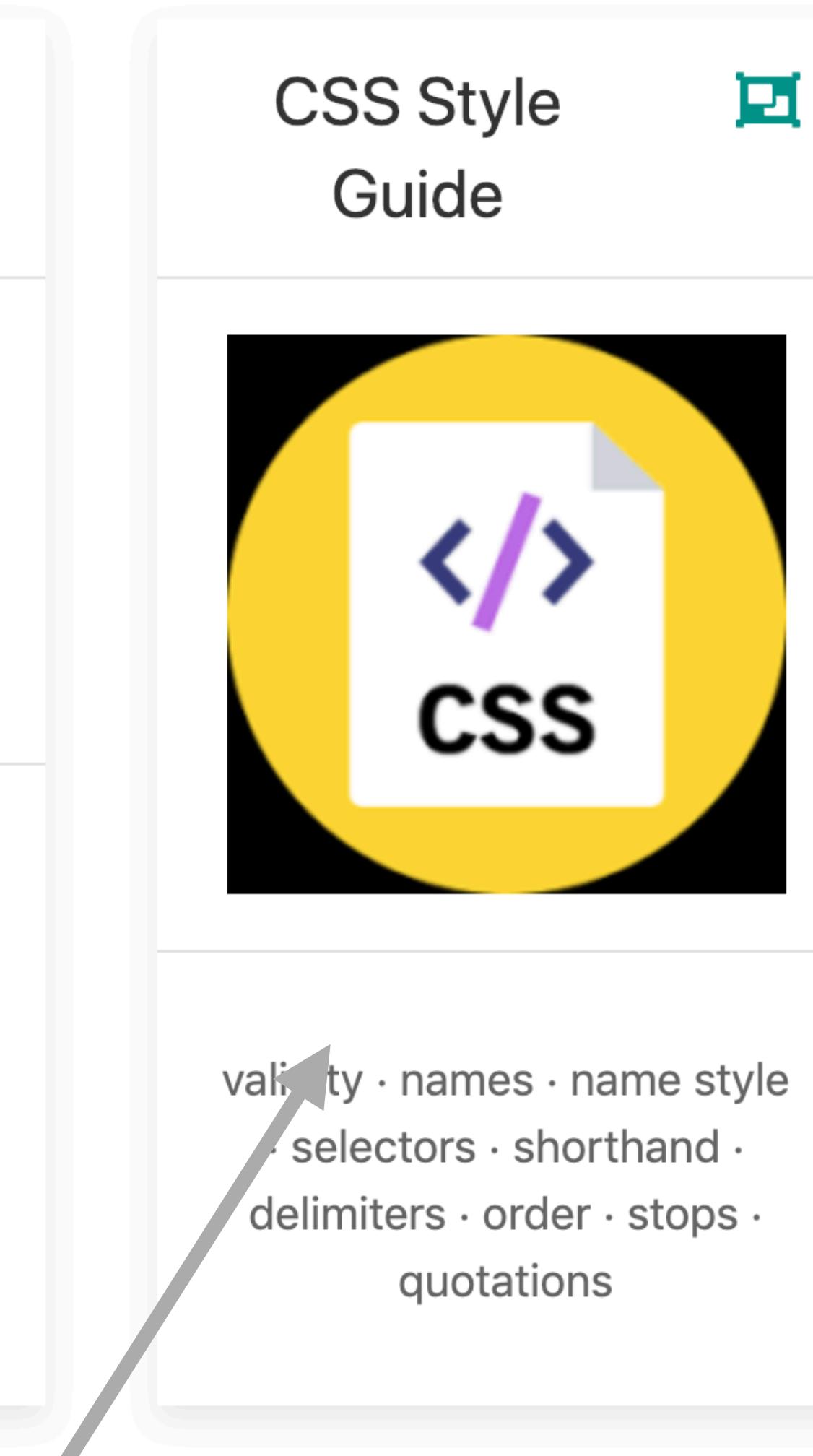
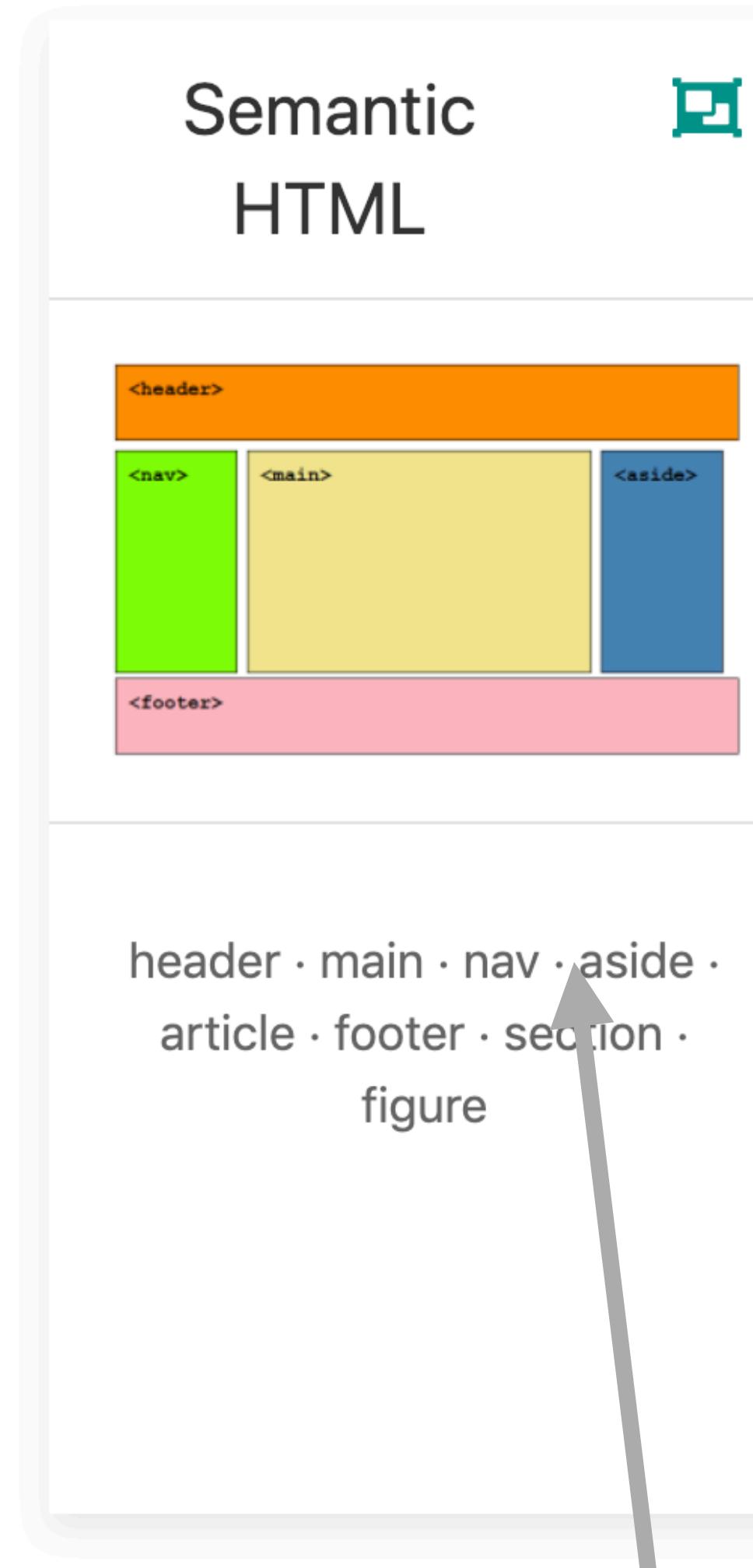
header · main · nav · aside · article · footer · section · figure

Sub Topic 1

Sub Topic 2

Subtopic

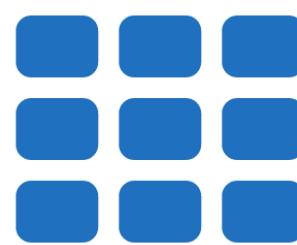
Semantic HTML



Slide PDFs

Lab

Tutors



Lab Instructions

06: CSS Frameworks

Lab

Lab Steps + Exercises

Lab-6a Semantic UI 1

01

02

03

04

05

06

07

08

09

Exercises

First Steps...

Open index.html and introduce a link to the style sheet we downloaded in the last step:

```
<link rel="stylesheet" href="assets/semantic/semantic.css">
```

This goes into the `<head>` section of index such that it will look like this:

index.html

```
<head>
  <meta charset="UTF-8">
  <link rel="stylesheet" type="text/css" href="http://fonts.googleapis.com/css?family=Open+Sans" />
  <link rel="stylesheet" href="assets/semantic/semantic.css">
  <link type="text/css" rel="stylesheet" href="style.css" media="screen"/>
  <title>BSc in the Internet of Things</title>
</head>
```

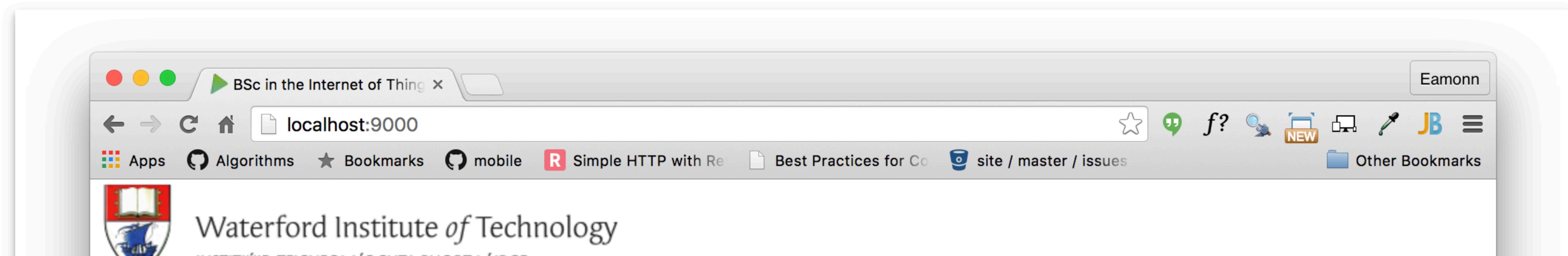
We will also replace the current stylesheet with the following:

style.css

```
.banner {
  background: url("assets/images/banner.jpg") top center;
  background-position: top center;
  color: white;
  height:300px;
}
```

The page is now back to being unformatted - where we started last week - as we have removed almost all of the style sheet rules.

The site will look like this again:

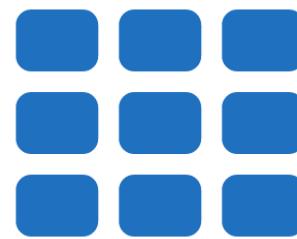


Youtube Live



Live Webinars
Delivery

Tutors



Live Stream

Live stream of
webinar for given
topic

The screenshot shows the 'Navigation' section of the 'H Dip in Computer Science' website. It includes a sidebar with program introduction, schedules, and手books. The main area displays 'Guides' for Programme Introduction, Schedules & Handbooks, and Learning to Learn Online. Below this, 'Semester 1' modules are listed: Programming Fundamentals (10 credits), Web Development (6 credits), ICT Skills (6 credits), and June Onsite (6 credits). A video player at the bottom shows a live stream of a man speaking, with a progress bar at 2:55 / 11:28. The URL wit-hdip-comp-sci.github.io is visible.

Open Course Portal

wit-hdip-comp-sci.github.io

wit-hdip-comp-sci-2018.github.io

Slides & Labs for
the topic

The screenshot shows three slides. The first slide, 'HTML Style Guide', features a large yellow circle with a red checkmark and the word 'HTML'. The second slide, 'Navigation', shows a colorful diagram with nodes labeled 'Search', 'About', 'Navigation', 'Sitemap', 'News', and 'Home'. The third slide, 'Lab-4a Navigation', contains placeholder text 'Lorem ipsum dolor sit' and a small note about browser compatibility. The footer of the slide deck includes the text 'nav · tab · current · padding'.

Semantic HTML

Semantic HTML



PLAY VIDEO

header · main · nav · aside · article · footer · section · figure

CSS Style Guide



PLAY VIDEO

validity · names · name style · selectors · shorthand · delimiters · order · stops · quotations

Lab-4b Case Study

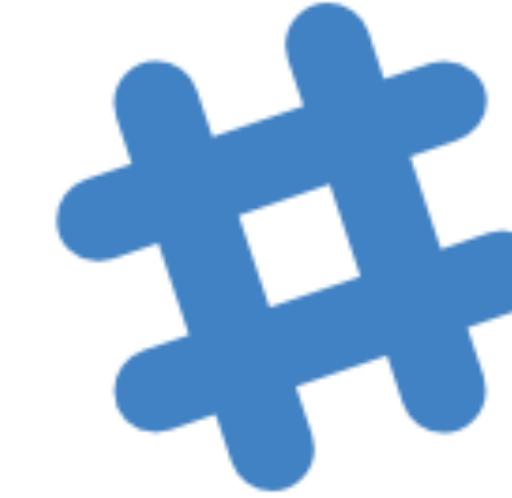


PLAY VIDEO

header · main · nav · aside · article · footer · section · figure

Pre-recorded Videos
for selected slides & labs

Slack

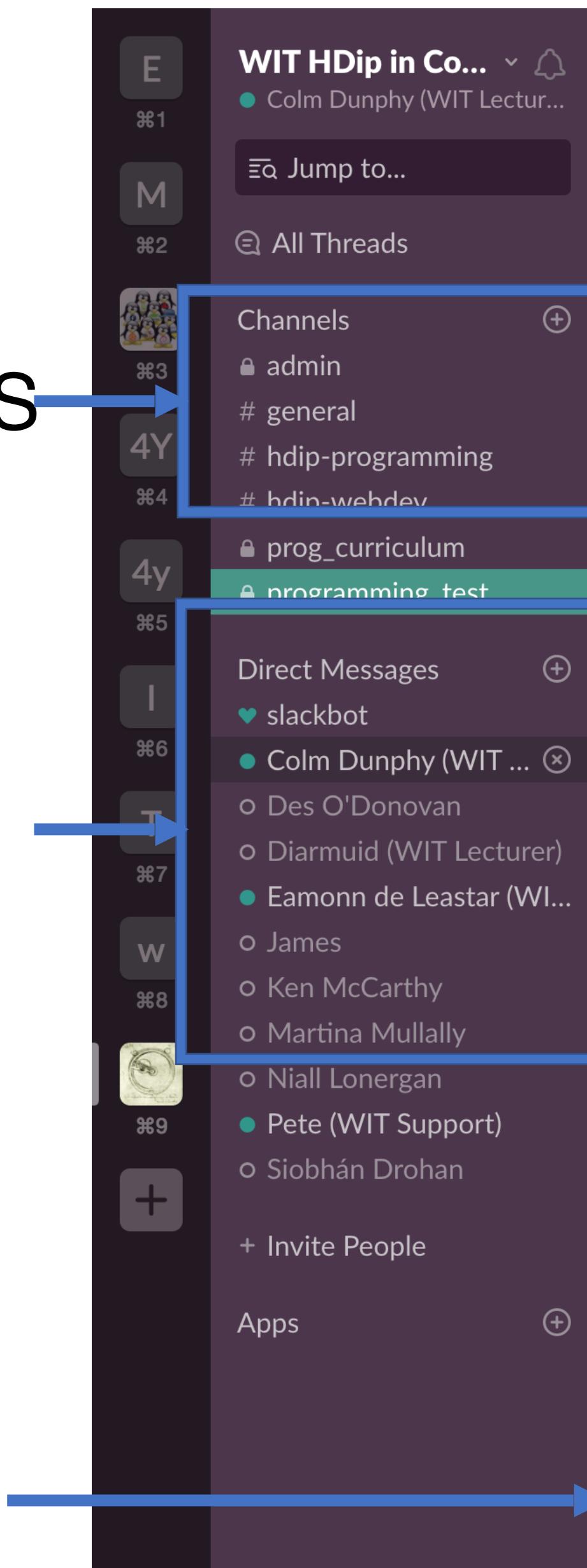


Lab Tuition
Support + peer-
to-peer
communications
& self help

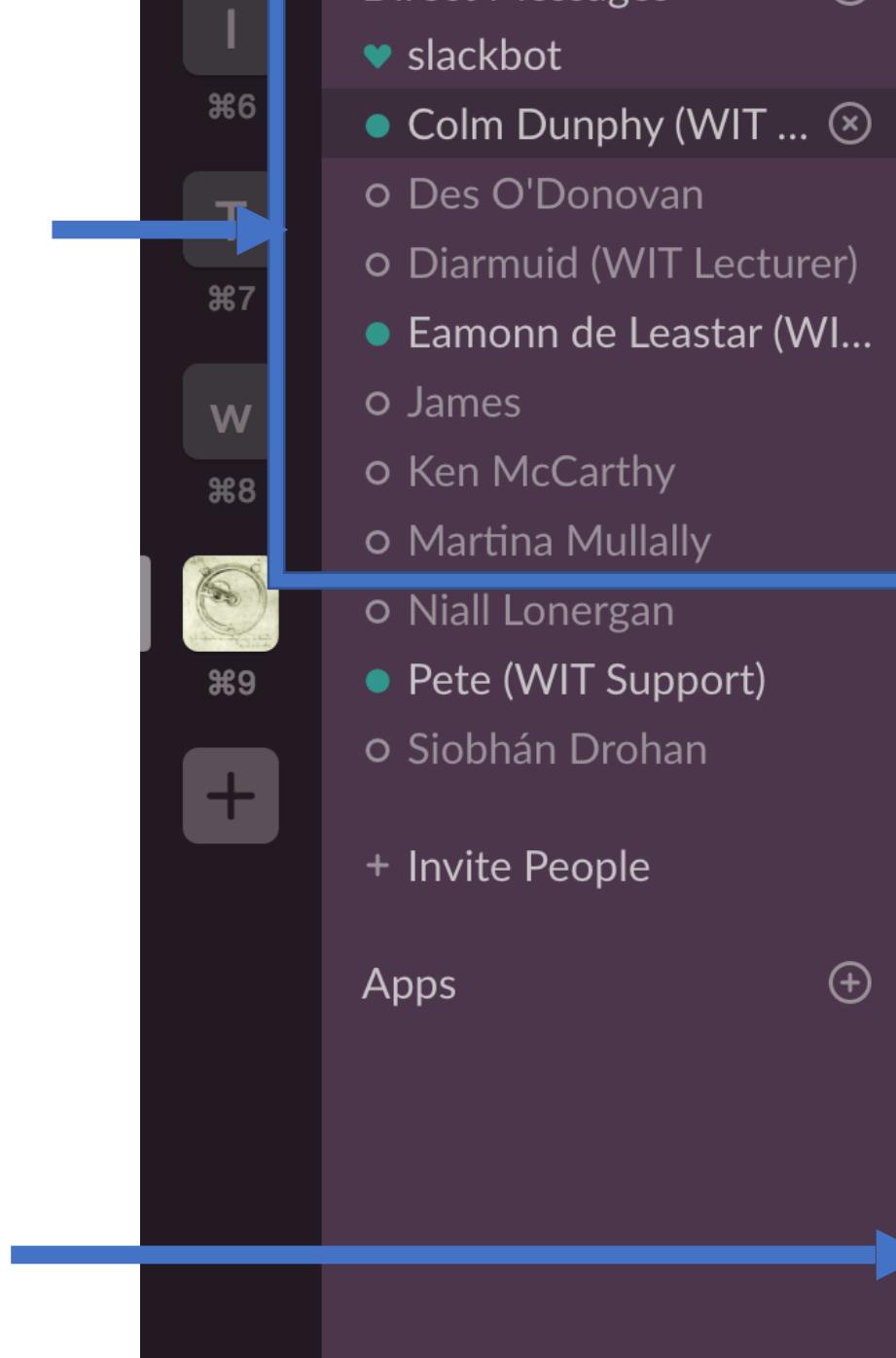


Slack – main things to remember

1. CHANNELS



2. DIRECT MESSAGES



3. TYPE HERE

Slack interface showing a conversation in the '# programming_test' channel:

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

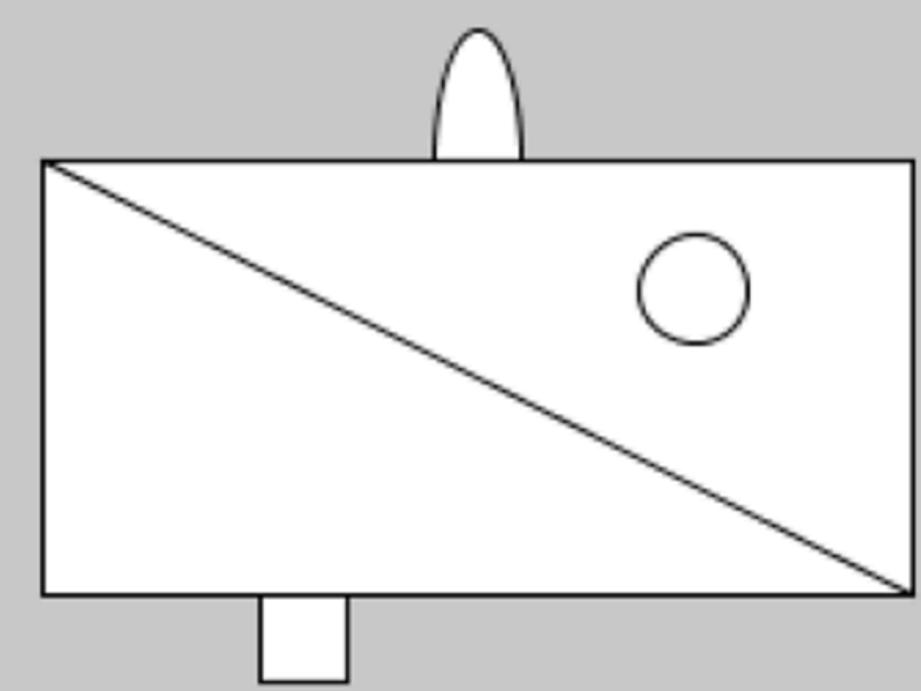
Colm Dunphy (WIT Lecturer) 1:59 PM
thumb up

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

Message programming_test

Workspace Directory



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

4. CLICK TO SELECT FILES/CONTENT TO UPLOAD



The screenshot shows the Processing IDE window titled "lab00_solution_exercise1 | Processing 3.3.6". The code in the editor is:

```
background(200);

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

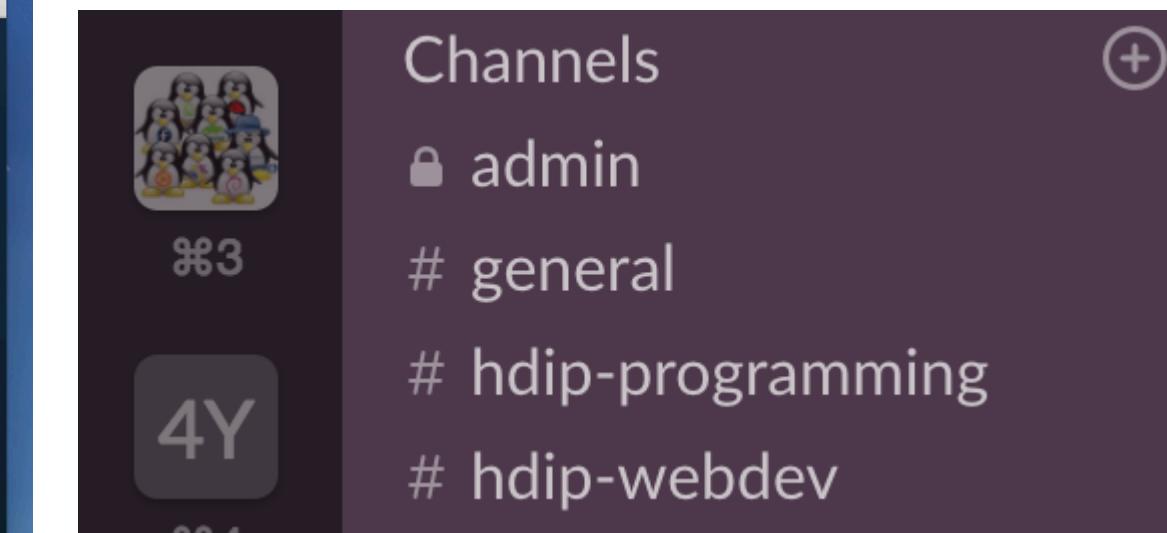
//Drawing a rectangle
rect(100,100,200,100);

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

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

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

The line `rect(150,200,20,20);` is highlighted in blue, indicating it's the current line of interest. A red bar at the bottom of the code editor displays the error message: "Syntax error, maybe a missing semicolon?". Below the editor, the console output shows: "expecting SEMI, found 'line'".



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

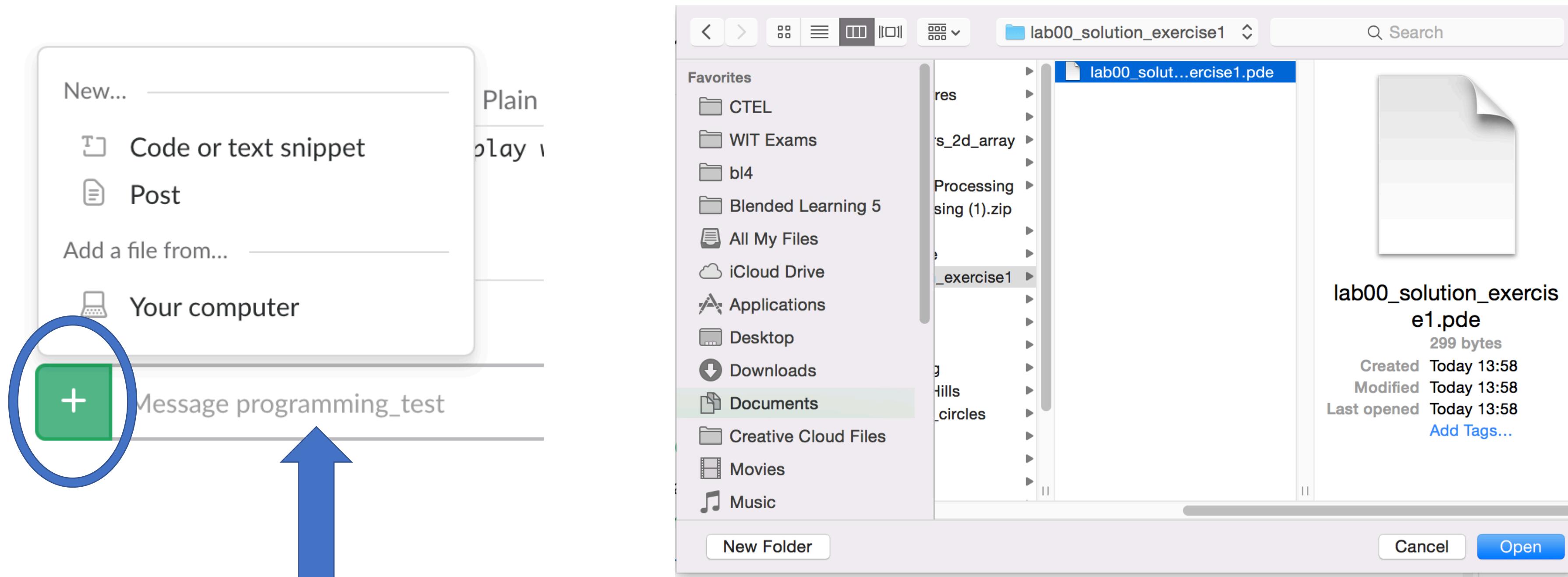
cdunphy 1:55 PM
yes. 1 sec

+ 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

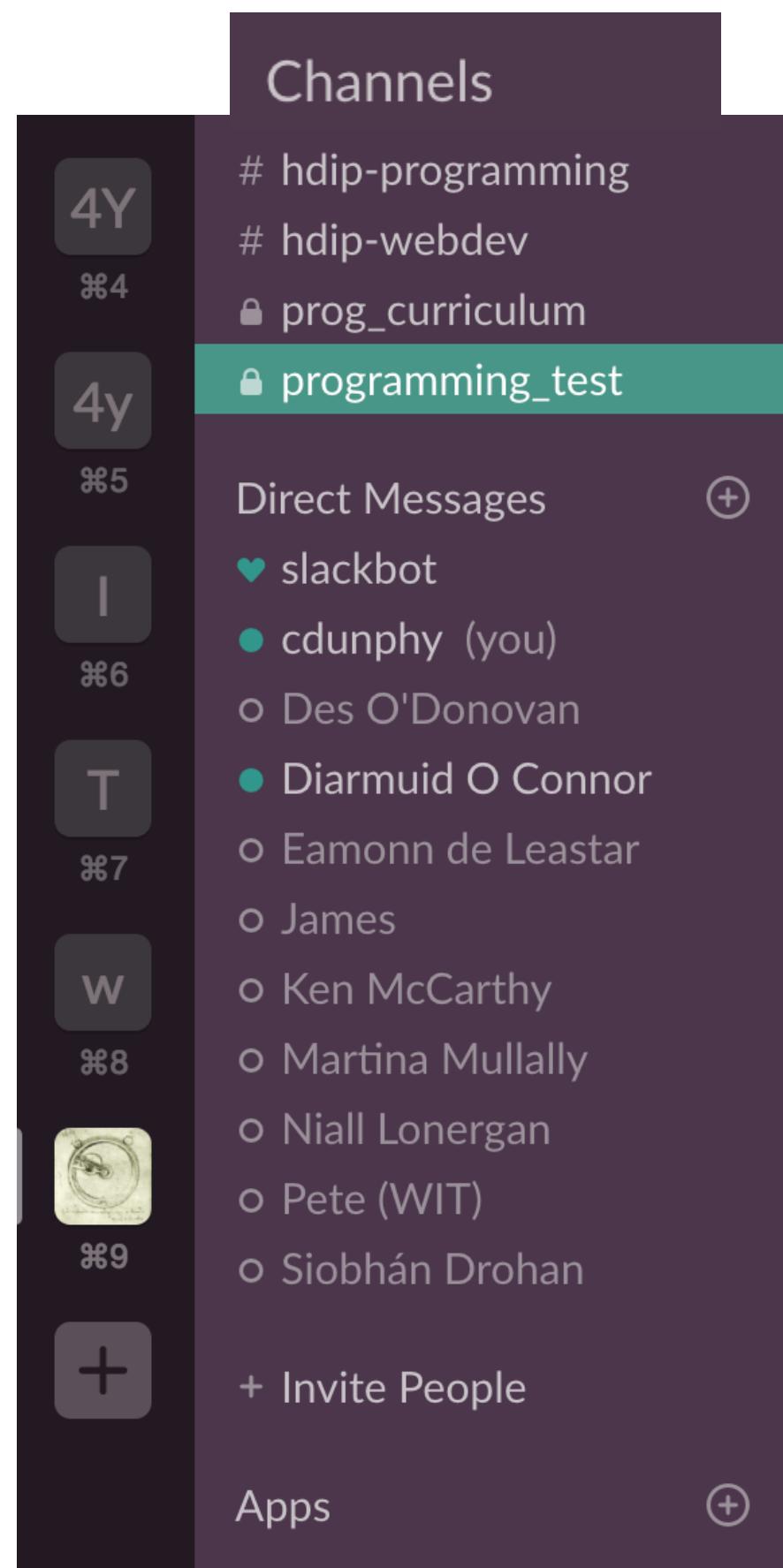
 **cdunphy** 1:59 PM


 **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 - usage (DM)



Yes that got rid of the error

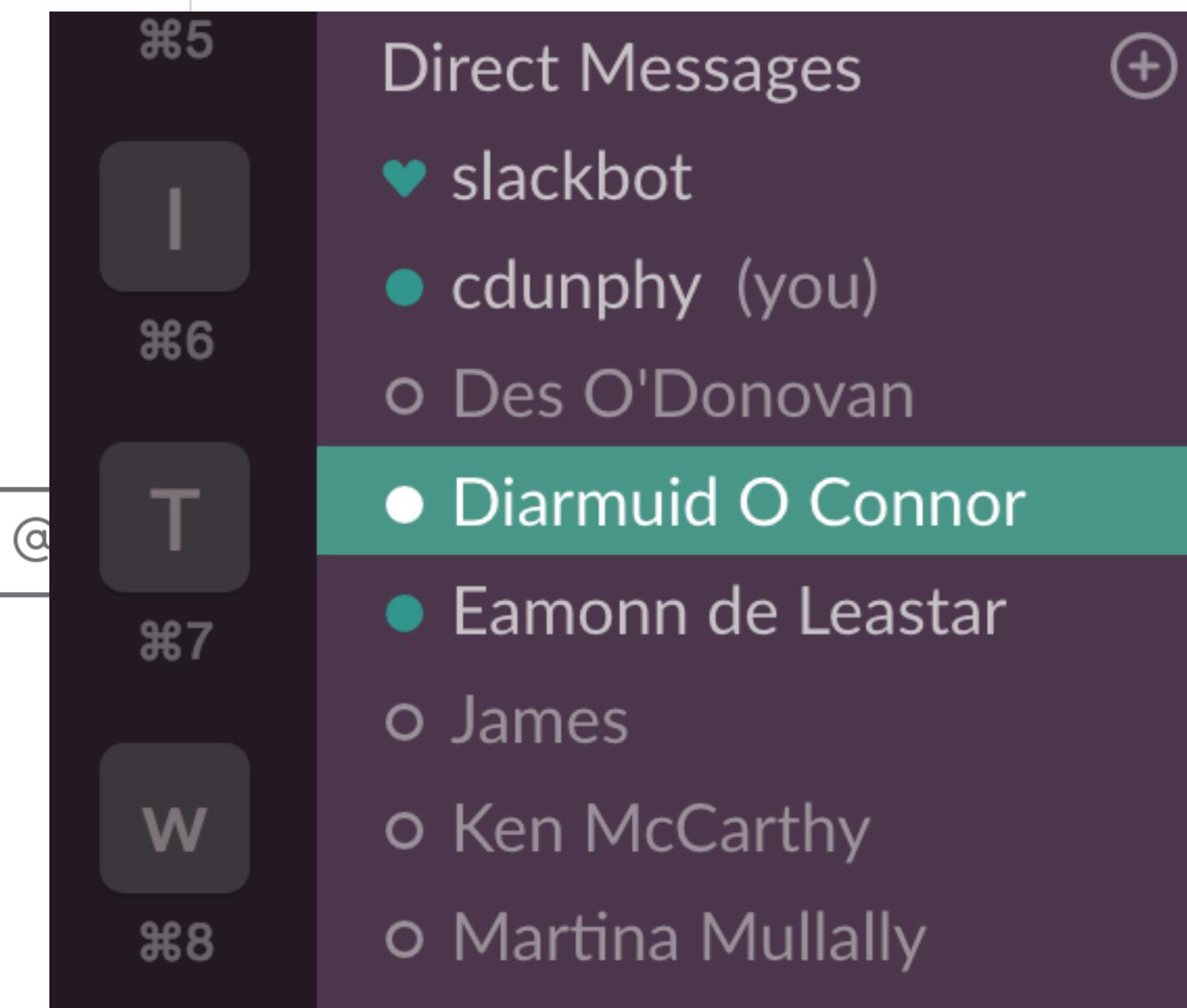
cdunphy 2:06 PM
uploaded and commented on this image: [image.png](#) ▾

“ Is this what the program should produce?

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

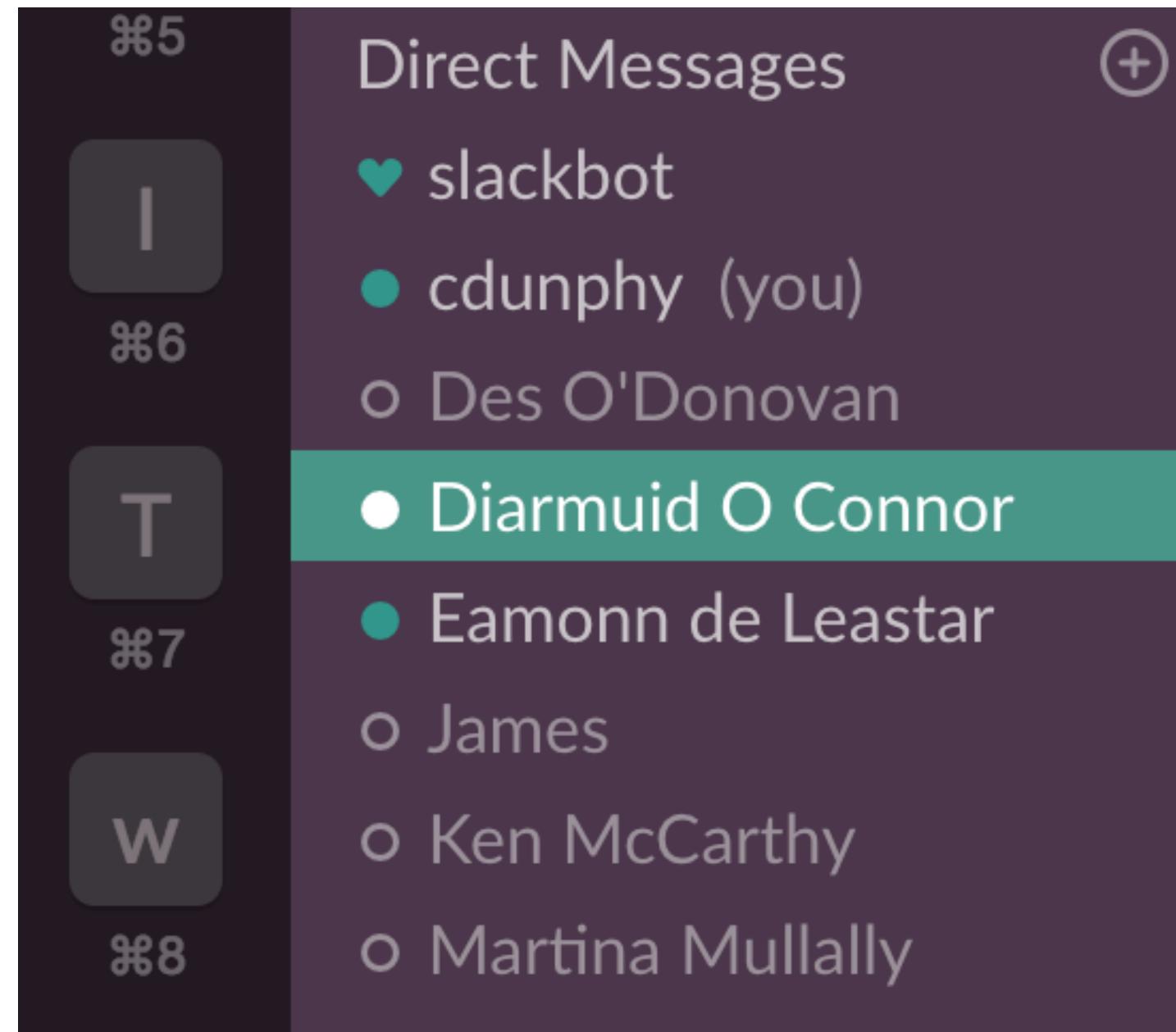
cdunphy 2:09 PM
Yes

+ Message programming_test





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

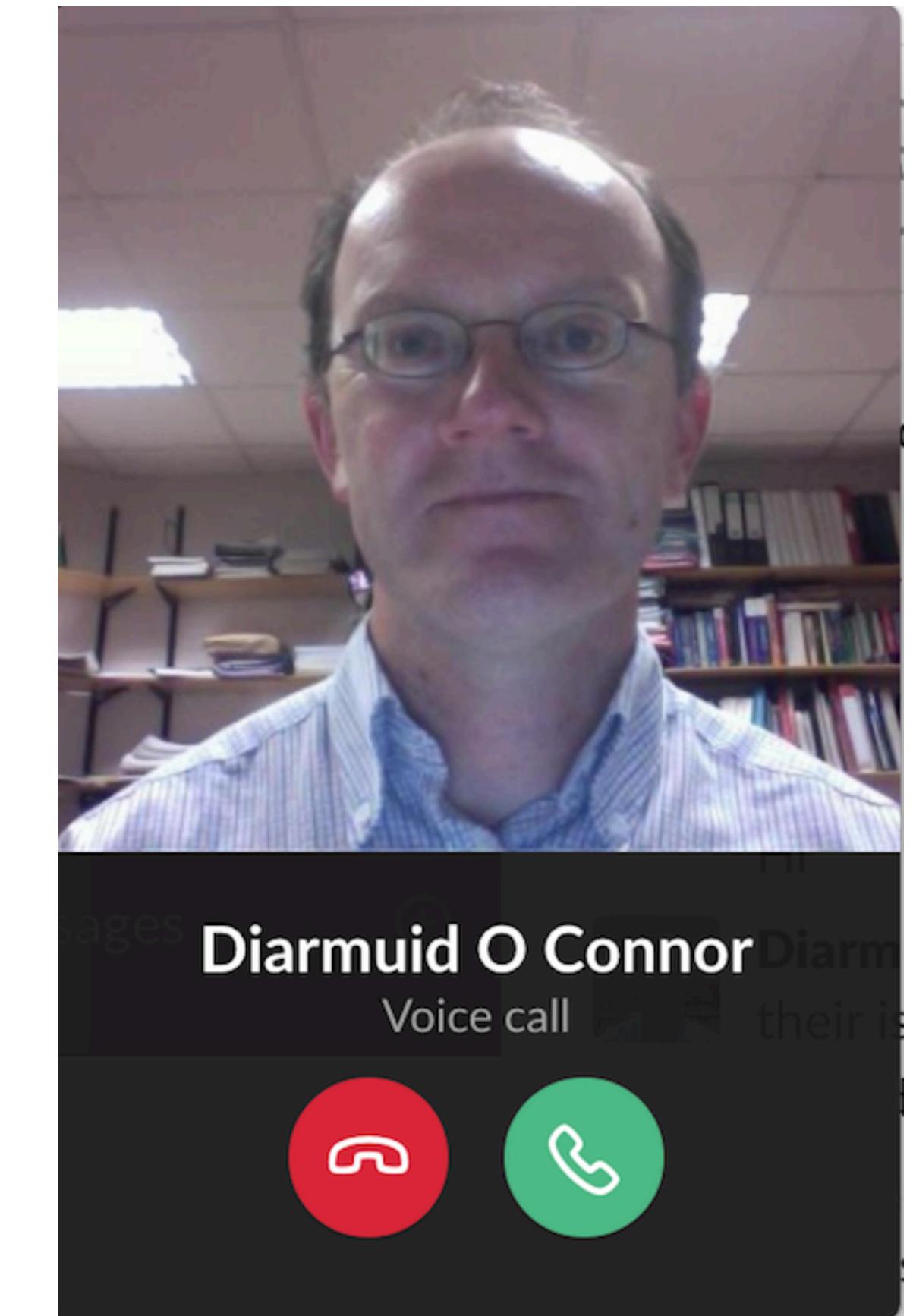
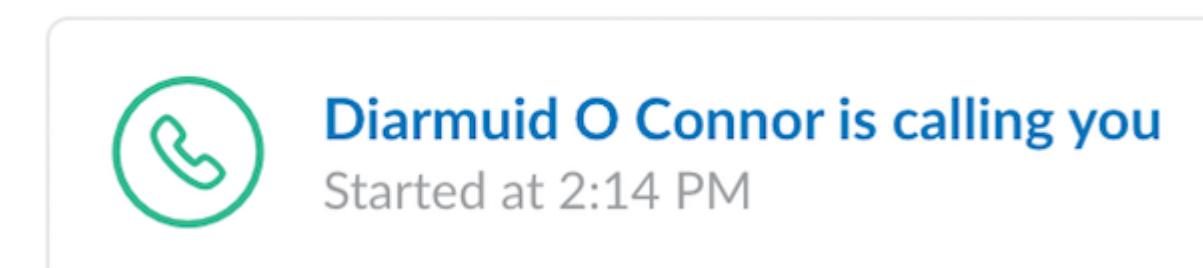
Diarmuid O Connor 2:12 PM
their is a small problem in your sketch. the ellipse at the top is partially hidden. Maybe we should screen share to continue?

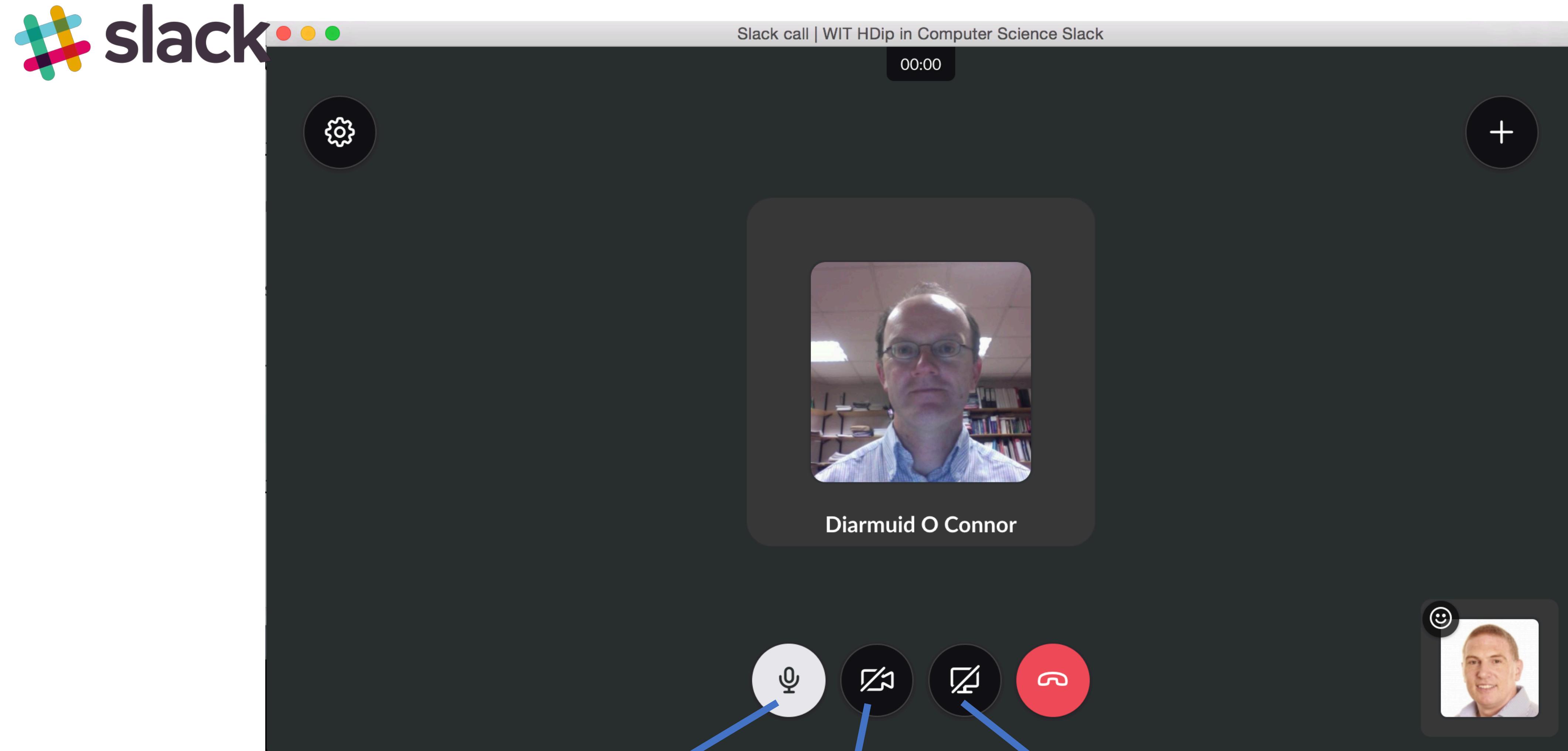
cdunphy 2:13 PM
Thanks Diarmuid

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 ▾





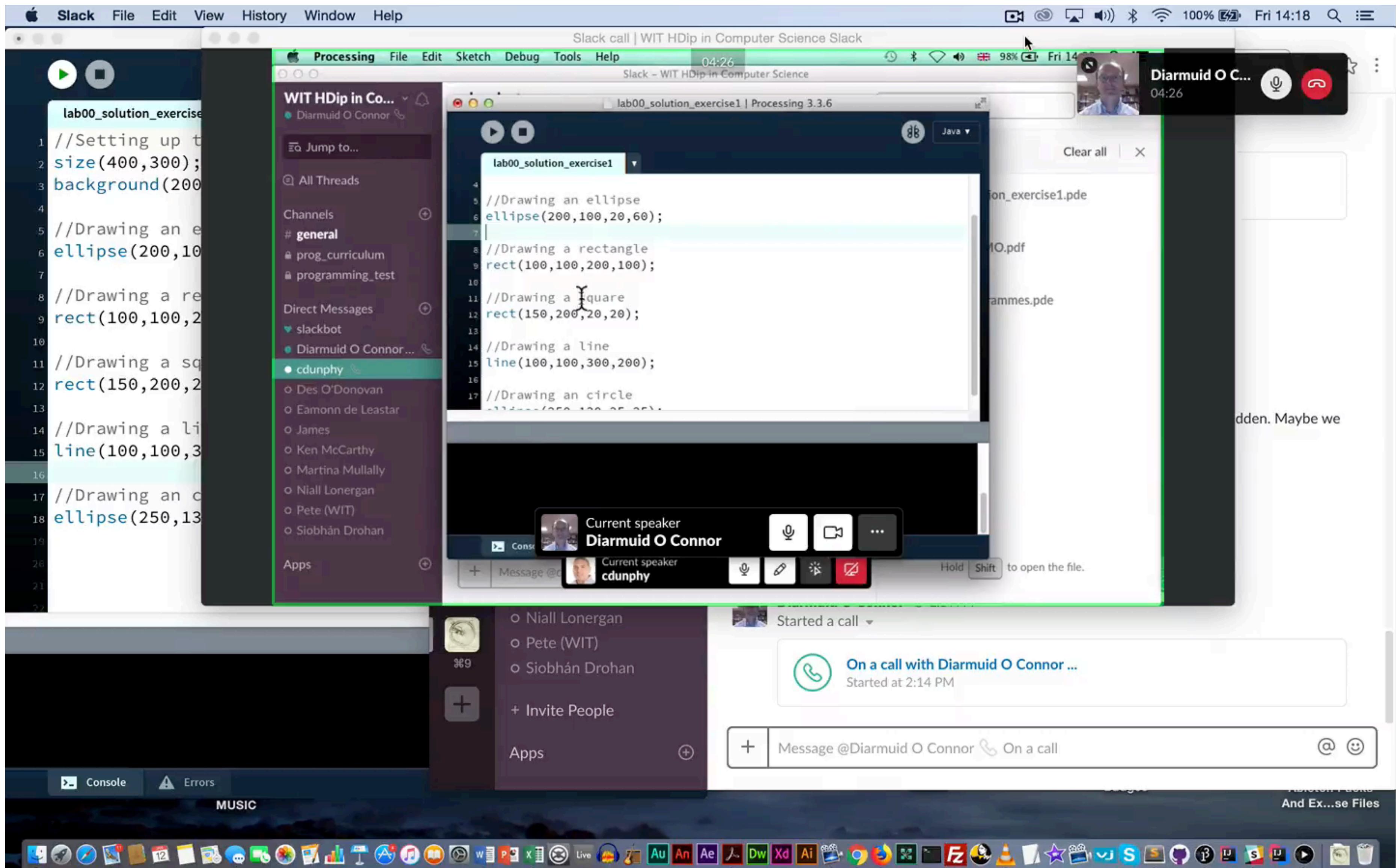
Mic

Video
Webcam

Screen
Desktop

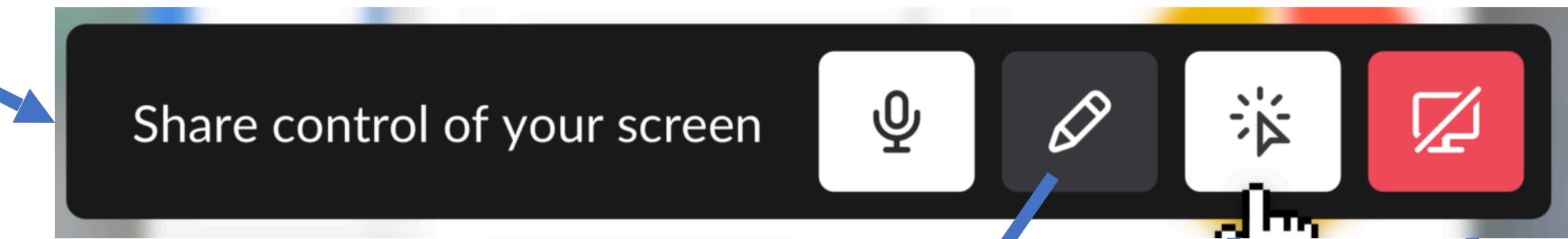
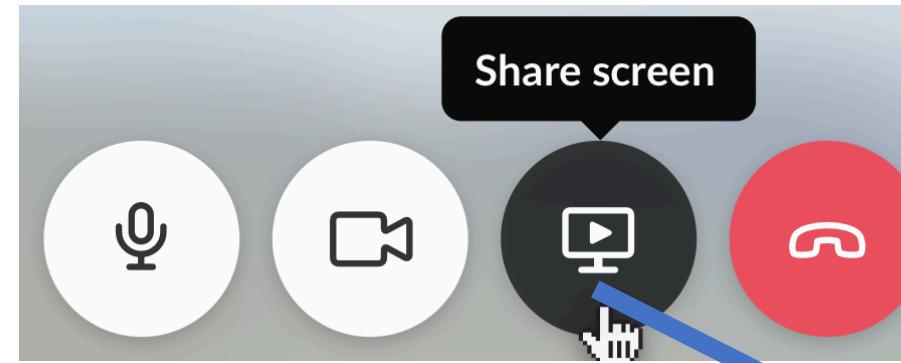


Call in Progress with lecturer's screen shared (call required)





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

Moodle



A screenshot of the Moodle interface. At the top is a navigation bar with a three-line menu icon, the text "moodle.wit", and a search bar. Below the navigation bar is a course header with a graduation cap icon and the text "Higher Diploma in Computer Science". Underneath the course header are two menu items: "Participants" and "Grades". A grey arrow points from the word "Grades" on the left towards the "Grades" menu item.

moodle.wit

Higher Diploma in Computer Science

Participants

Grades

Higher Diploma in Computer Science

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

Programming



- Assignment 1
- Assignment 2
- Assignment 3

Web Development

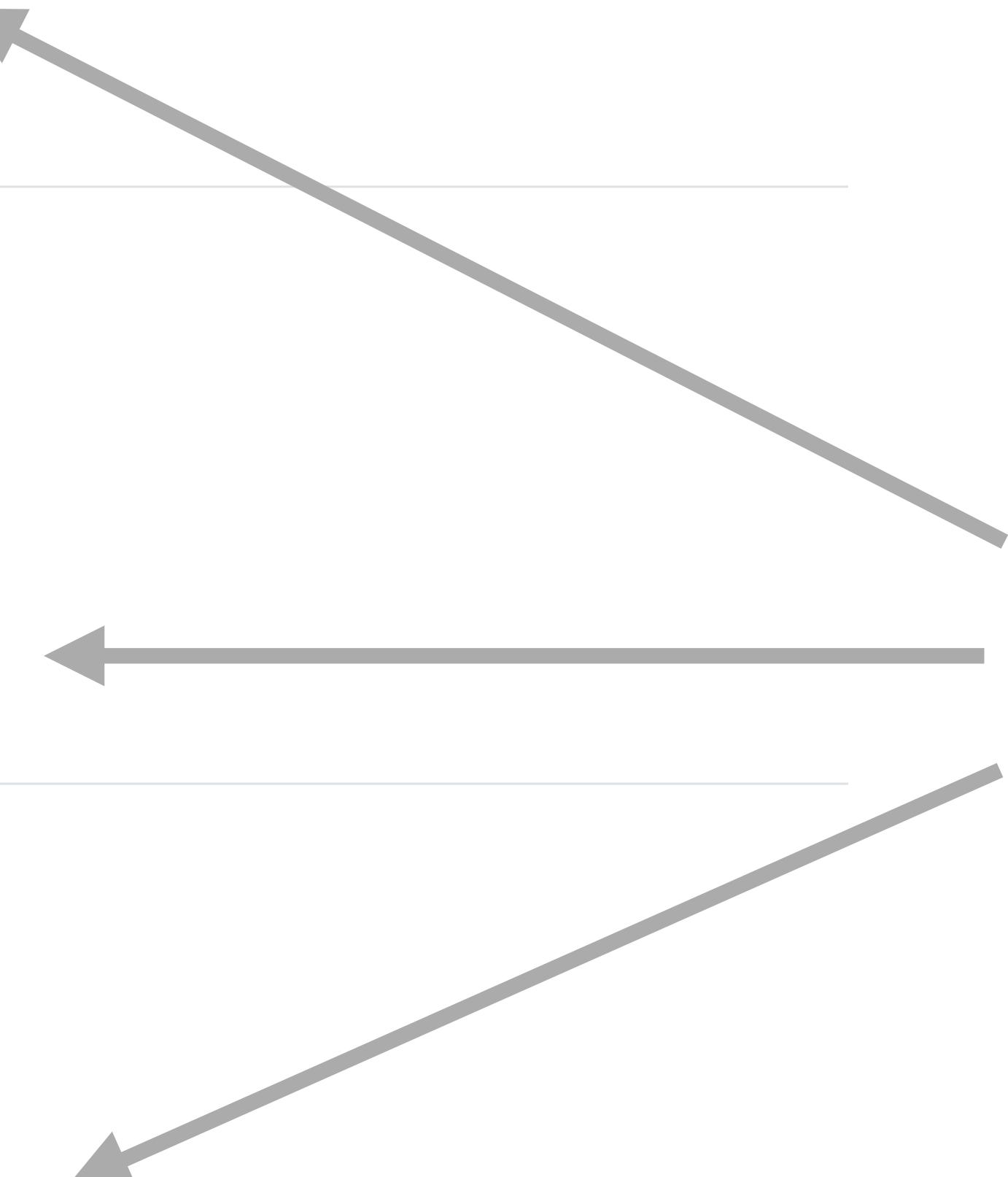


- Assignment 1
- Assignment 2

Skills Studio 1



- Assignment



Assignment
Submissions

Moodle



Web Development



Assignment 1

Assignment 2

Assessment feedback

Assignment: Submit

https://moodle.wit.ie/mod/assign/view.php?id=2407050&rownum=0&action=grader&userid=42131

Module: Higher Diploma in Computer Science
Assignment: Submit
[View all submissions](#)

Due date: 11 March 2018, 11:55 PM

Change user ▾

33 of 39

Well done [REDACTED] for a excellent effort - your grade was 74%

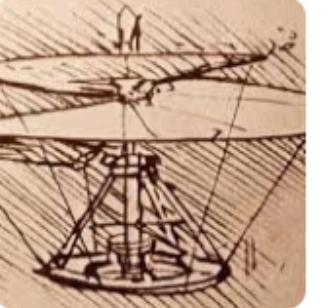
The structure of the project was excellent, with effective use of file and folder names. Indentation was good (although head and body were not indented) and the use fo semantic elements was spot on. You implemented 2 column layout, which worked well. Navigation was also excellent - with full context sensitivity. The CSS was clean and concise. I was rewarding an attempt to use more than one sheet - a generic and a set of styles (perhaps that could have been used on different sites).

You didn't attempt EJS. Templating is important in the remainder of the course (and in successor modules) - so it would be worth, perhaps, having a go a the template labs if you have time.

I didn't see any media, but I was able to verify a deployment

Overall I was pleased with the projects - in my categorisation there were 7 outstanding projects, 10 excellent, 6 very good, 4 good and 1 fair. The were graded more or less adhering to the published grading spectrum.

Notify students Save changes Save and show next Reset



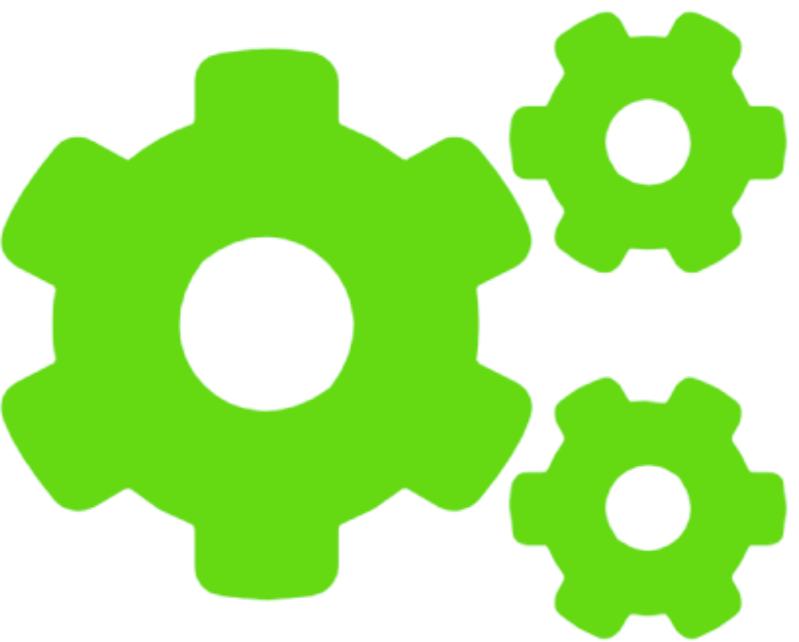
Higher Diploma in Computer Science 2019

Department of Computing & Mathematics, WIT



Semester 1: January - June, 2019

Programming



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

10 Credits

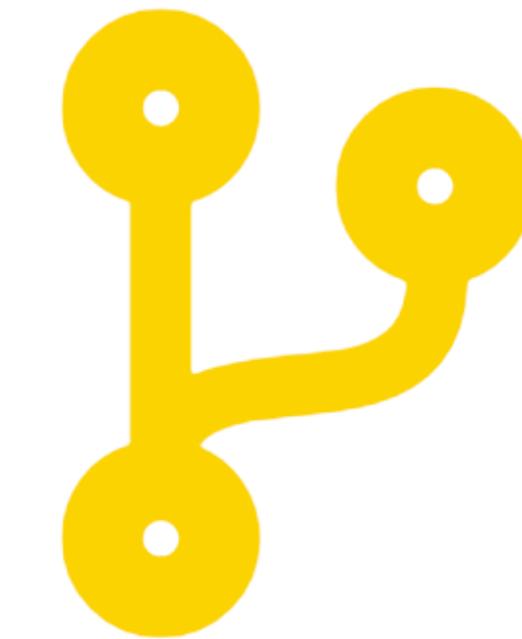
Web Development



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

5 Credits

Skills Studio 1



javascript · node · express ·
git · github · glitch

2.5 Credits