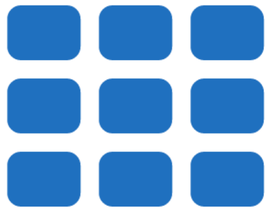
Waterford Institute *of* Technology
INSTITIÚID TEICNEOLAÍOCHTA PHORT LÁIRGE

Higher Diploma in Science in Computer Science

Overview of Structure & Purpose of the Online Materials

Tutors

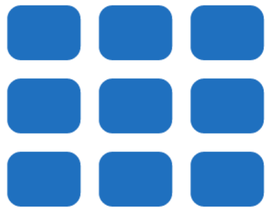


Slack

Moodle

Youtube

4 Key Web Services

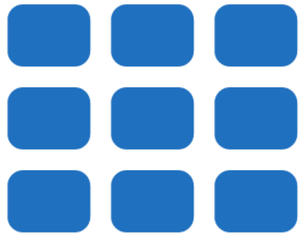
Tutors  } open

Slack  } personal email

Moodle  } wit email

Youtube  } open

Tutors



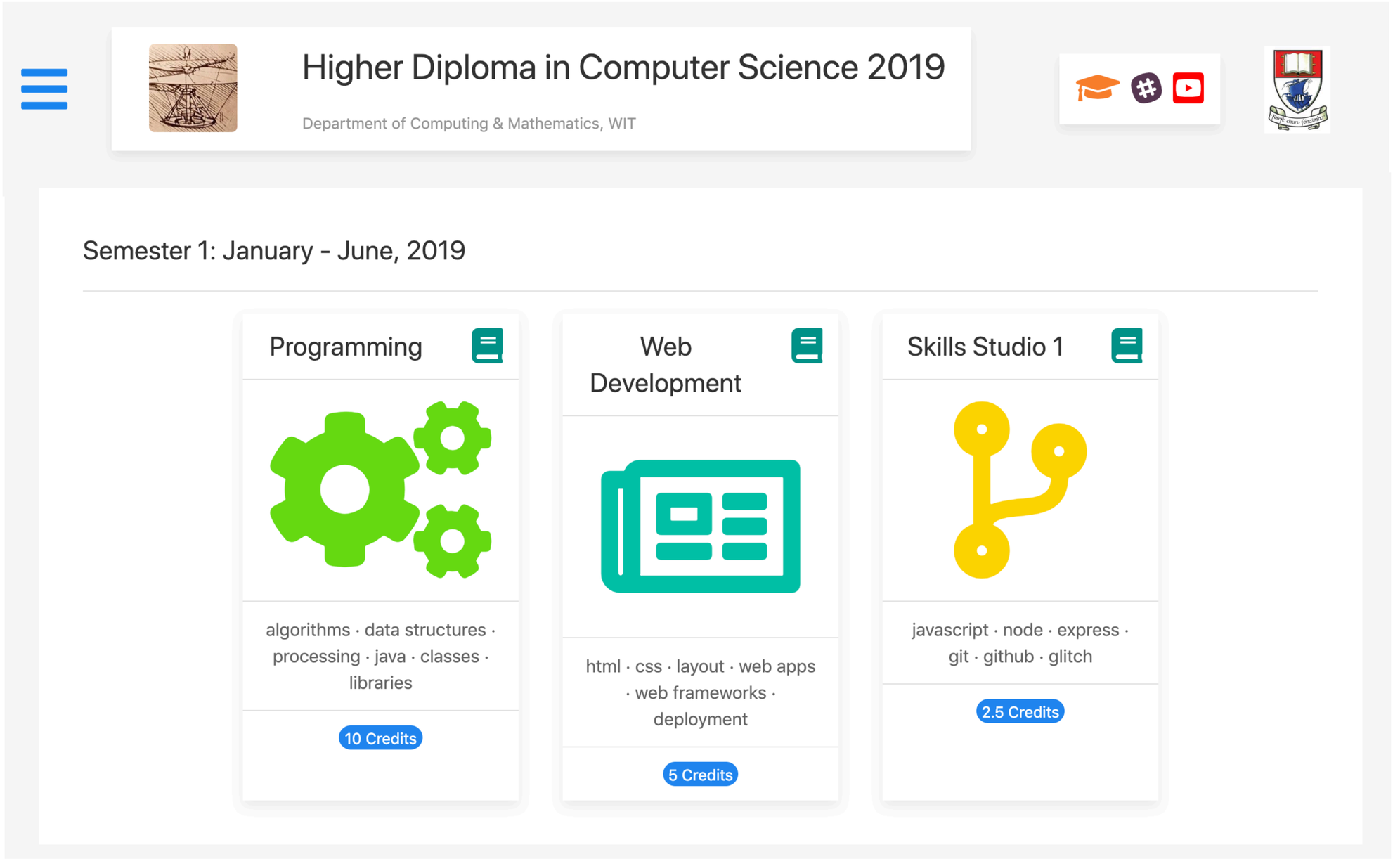
Primary location of module lectures, lab and video material

Tutors

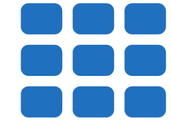
https://wit-hdip-comp-sci-2019.github.io

Programme Home Page

Links to all resources + Modules



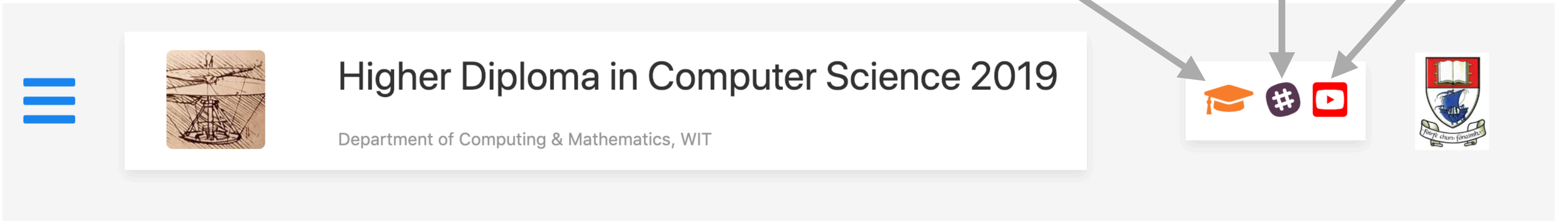
Tutors



Moodle

Slack

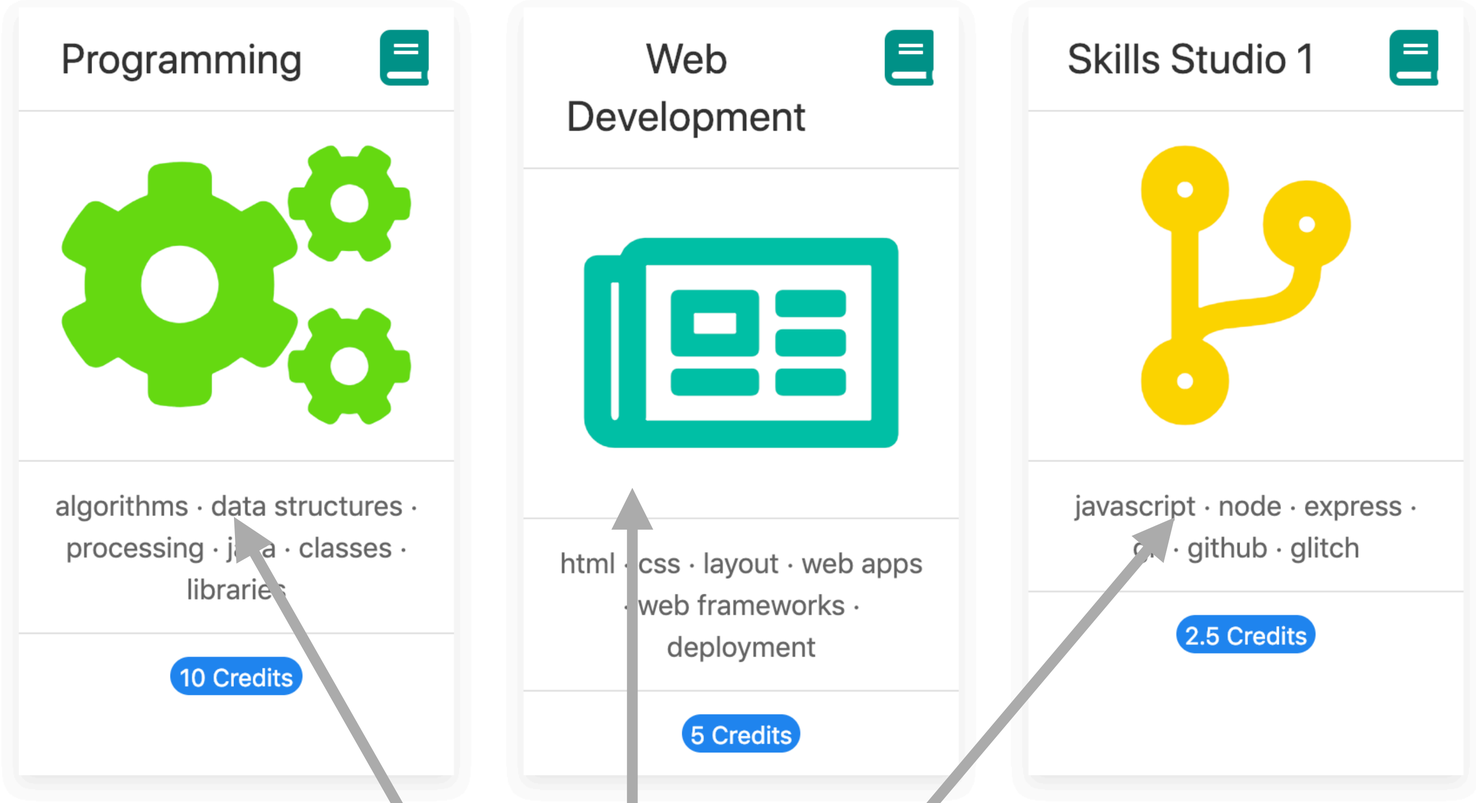
Youtube



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

Tutors

Semester 1: January - June, 2019



Links to Individual Module Home Pages

Tutors

Module Home

Programme Home

Moodle

Slack

Youtube

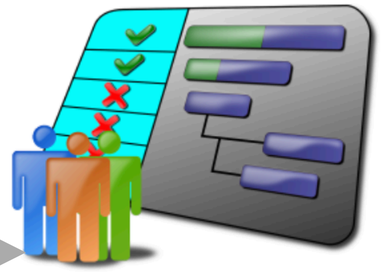
all slides shortcut

all lab shortcut

Web Development

Eamonn de Leastar, Annetta Stack, WIT

00: Assignment Specifications



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

00: Module Overview

topics · schedules · calendar · assignments · first lab

01: Introducing HTML

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

02: Introducing CSS

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

Topic

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

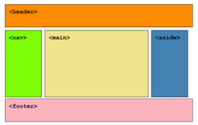
Lab-4a Navigation

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

Sub Topic 1

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 2

Subtopic

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

Slide PDFs

Lab

Tutors

Lab Instructions

Lab

Lab Steps + 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>
```

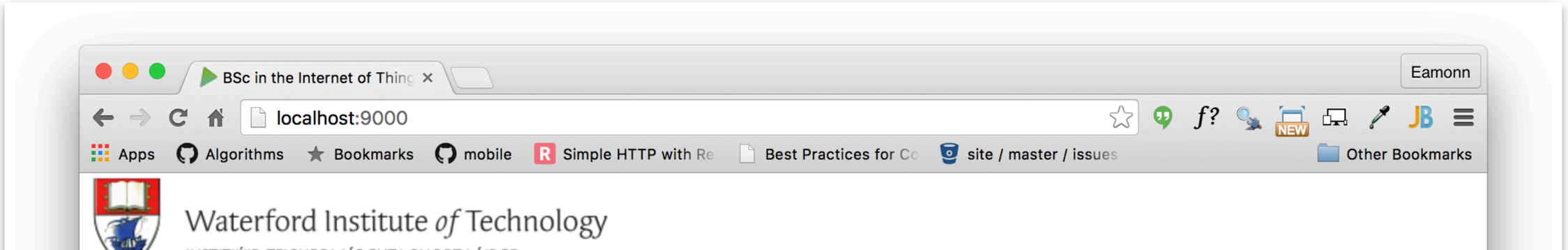
We will also replace the current stylesheet with the following:

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

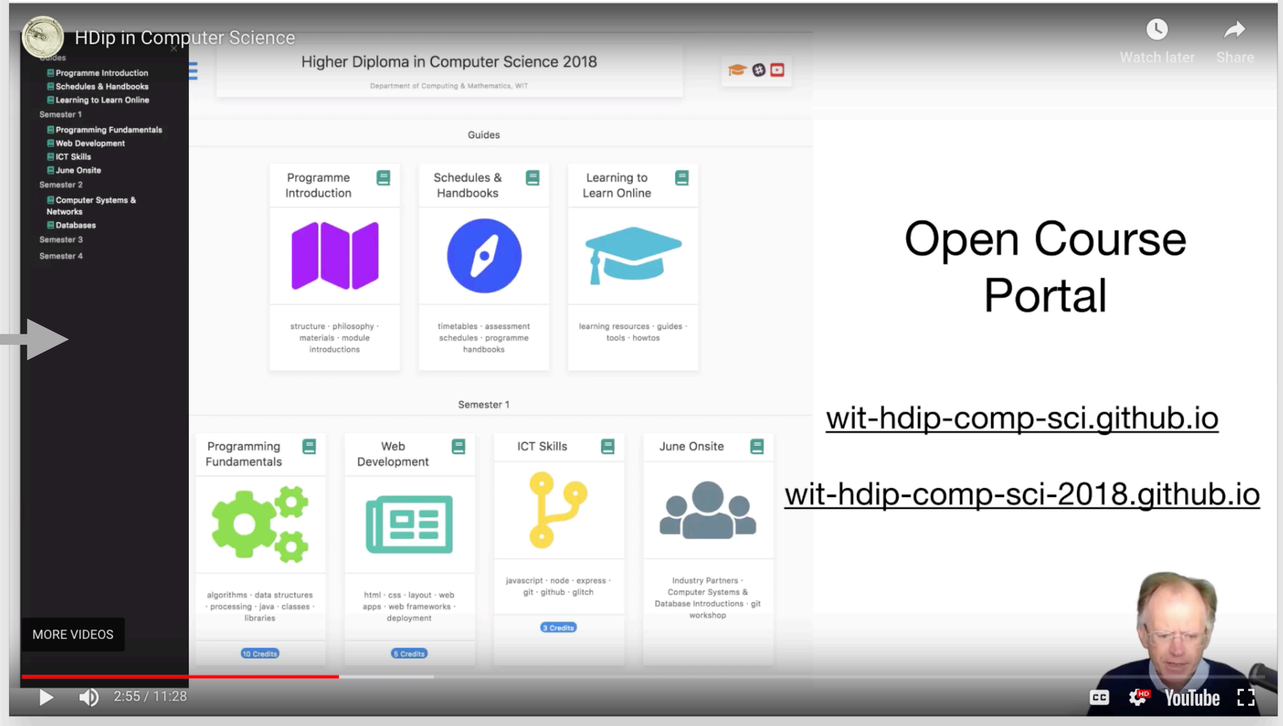
Live Webinars
Delivery

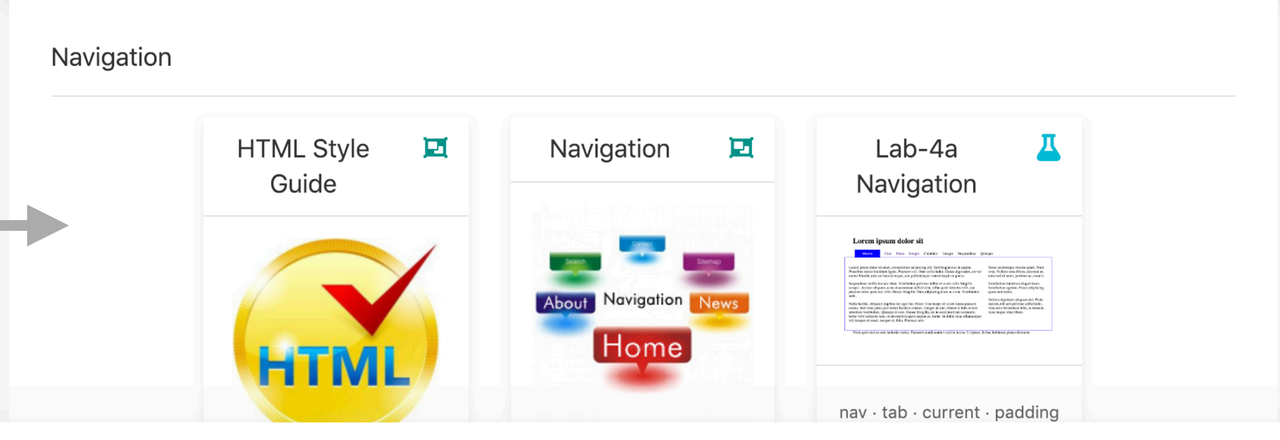
Tutors

Live Stream

Live stream of webinar for given topic

Slides & Labs for the topic





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

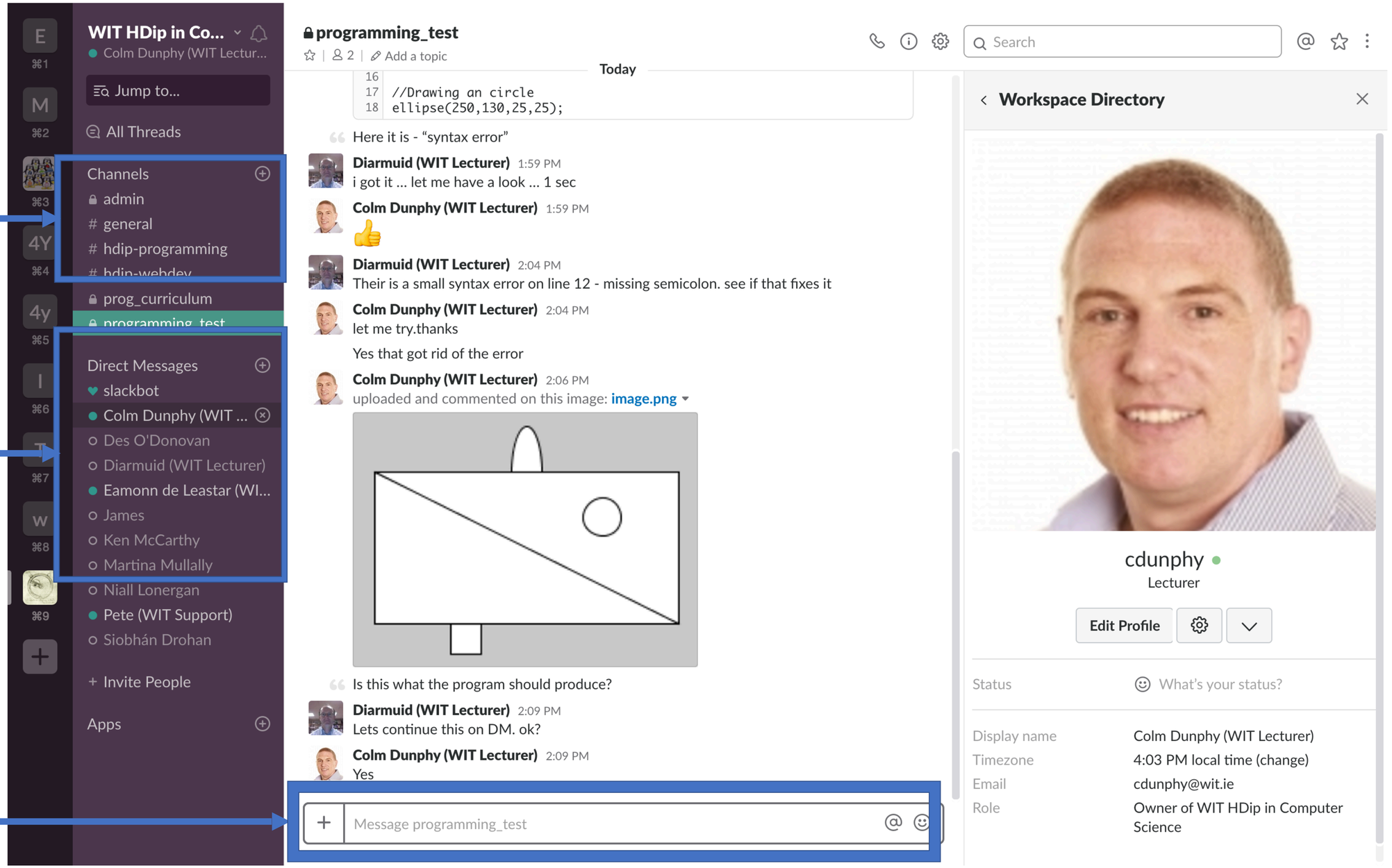
Lab Tuition
Support + peer-to-peer communications & self help

Slack – main things to remember

1. CHANNELS

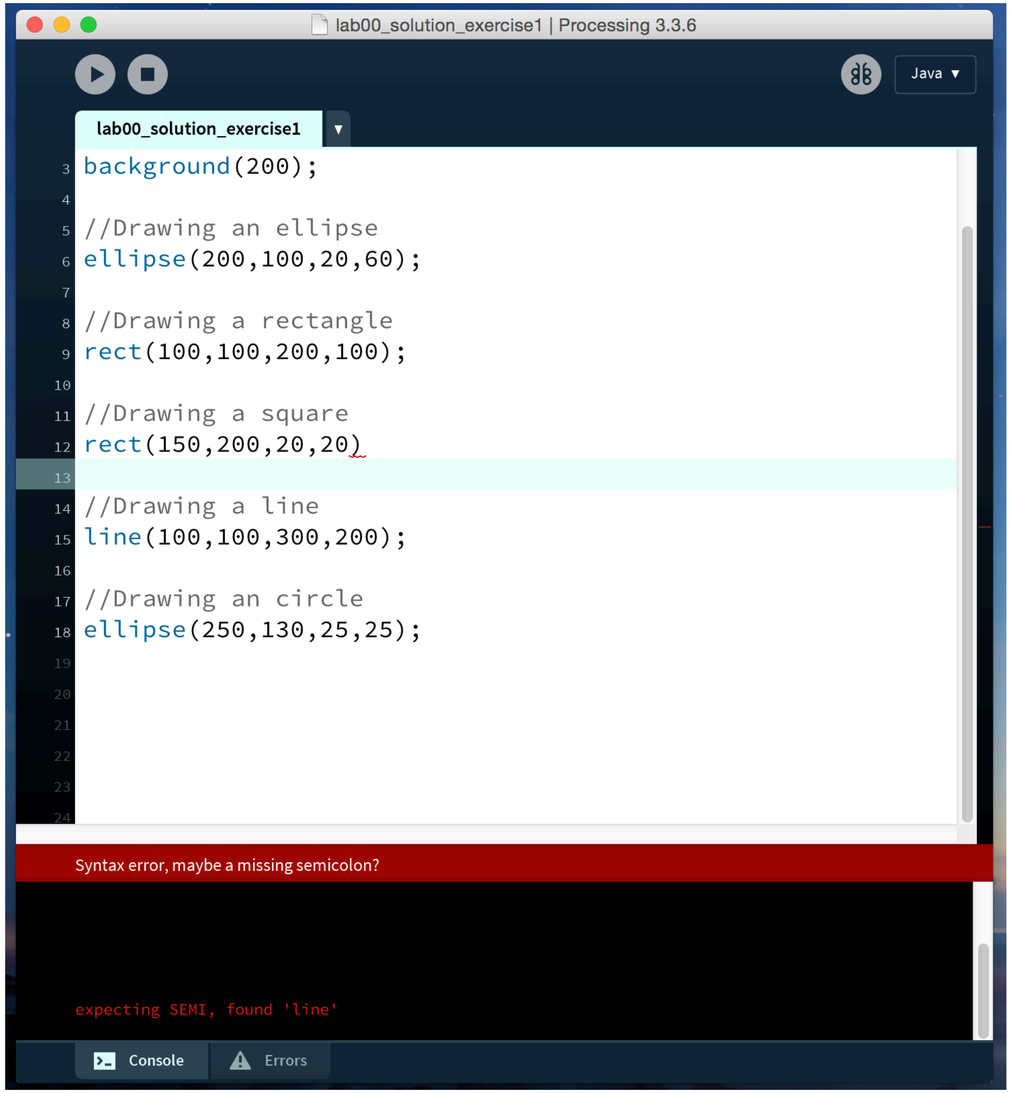
2. DIRECT MESSAGES

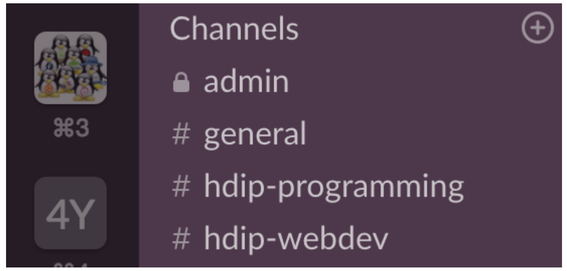
3. TYPE HERE

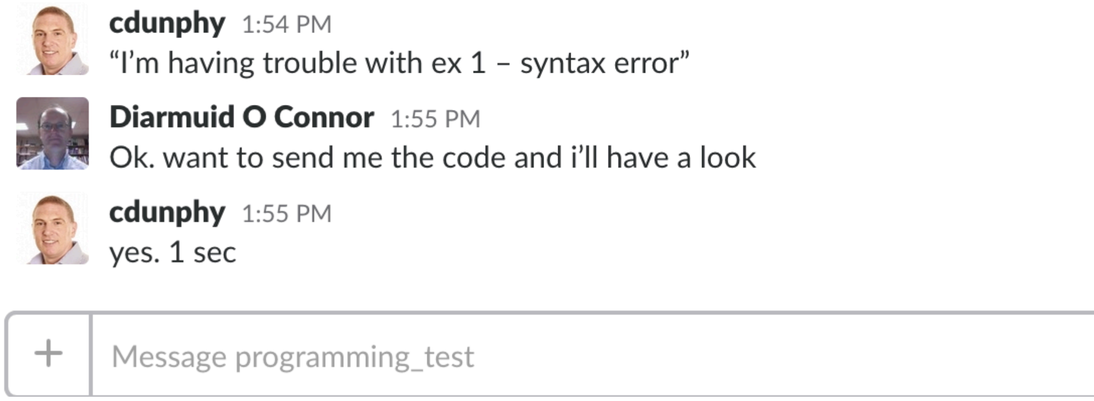


4. CLICK TO SELECT FILES/CONTENT TO UPLOAD

slack

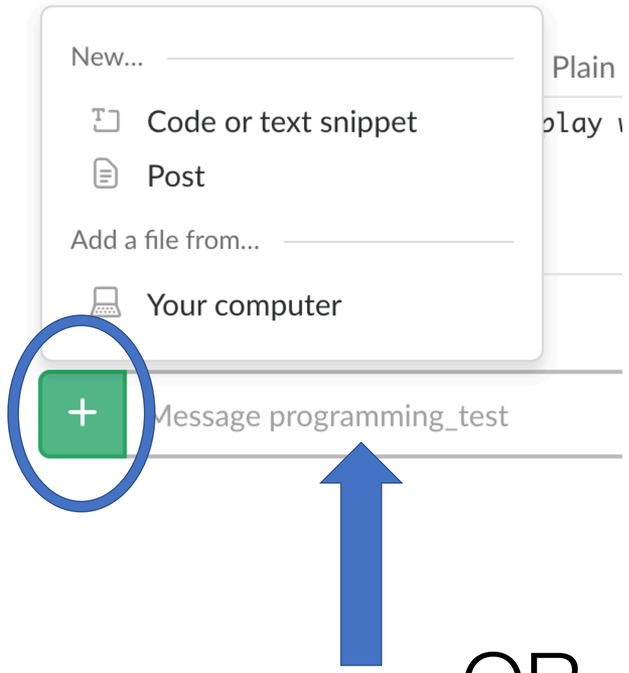


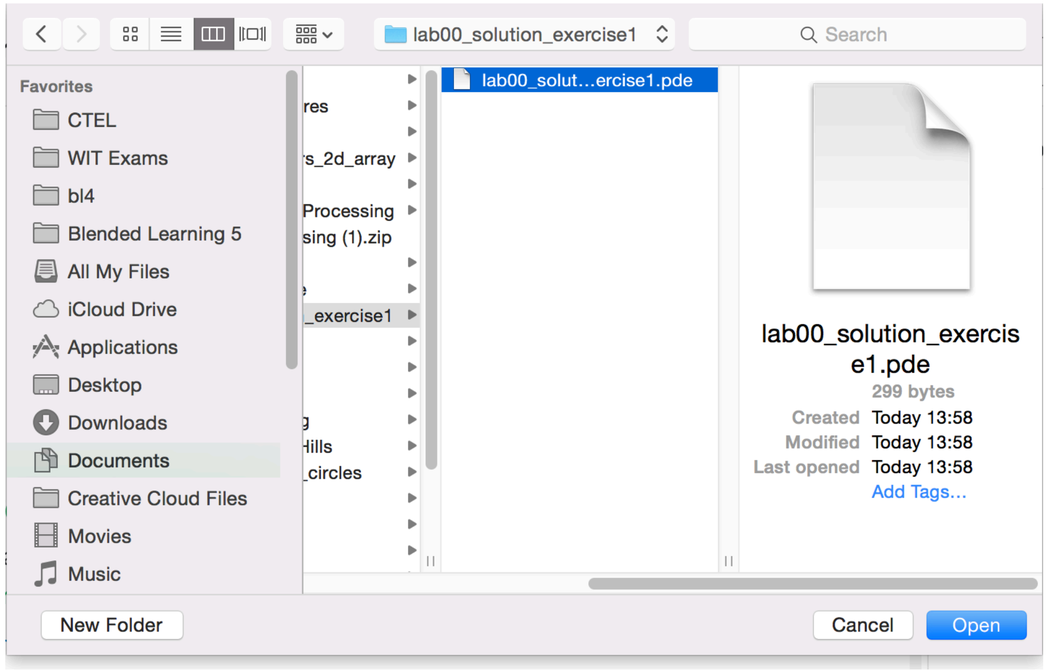




Select the
Channel in Slack
& post your issue

Uploading content for discussion

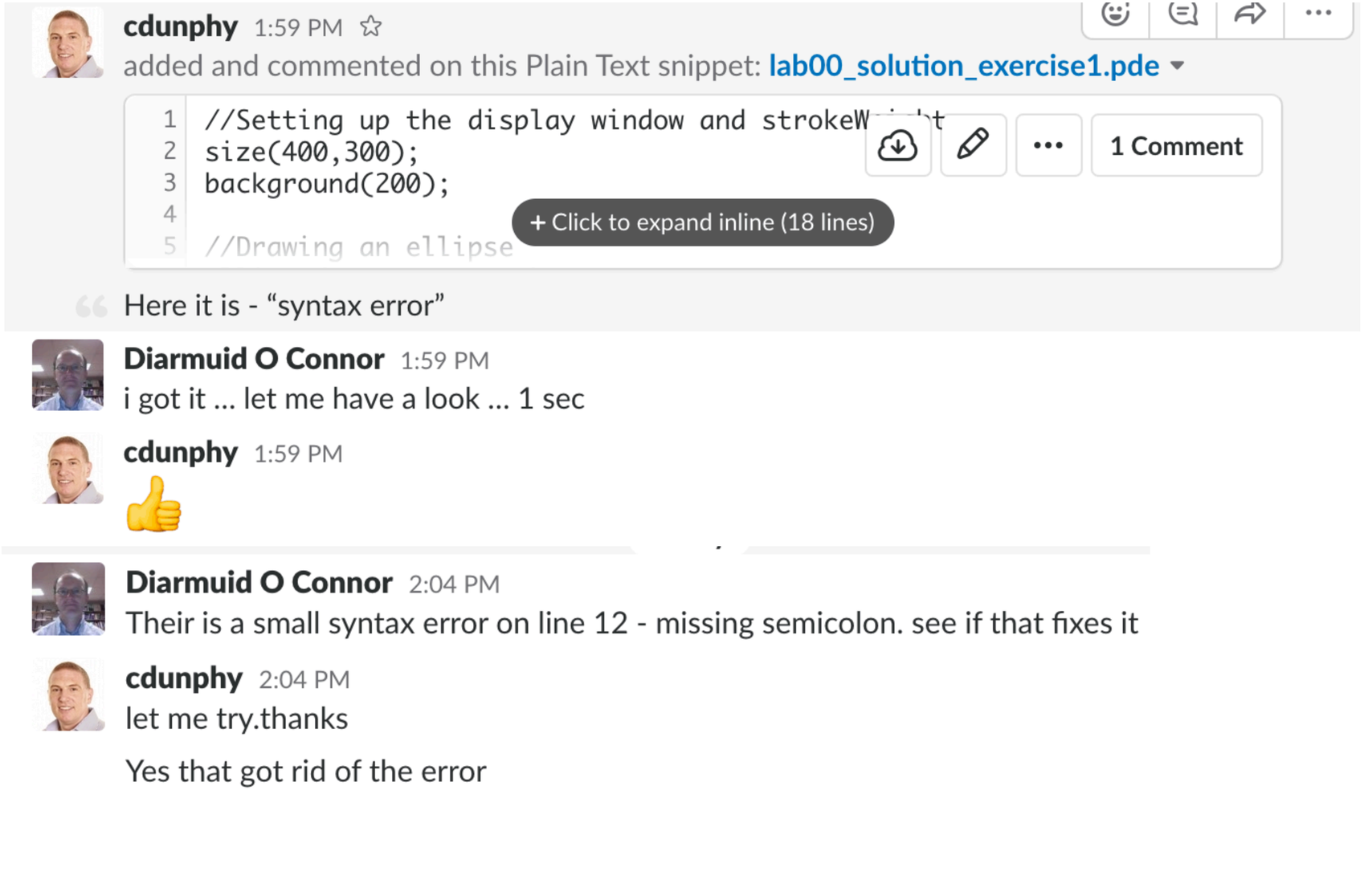




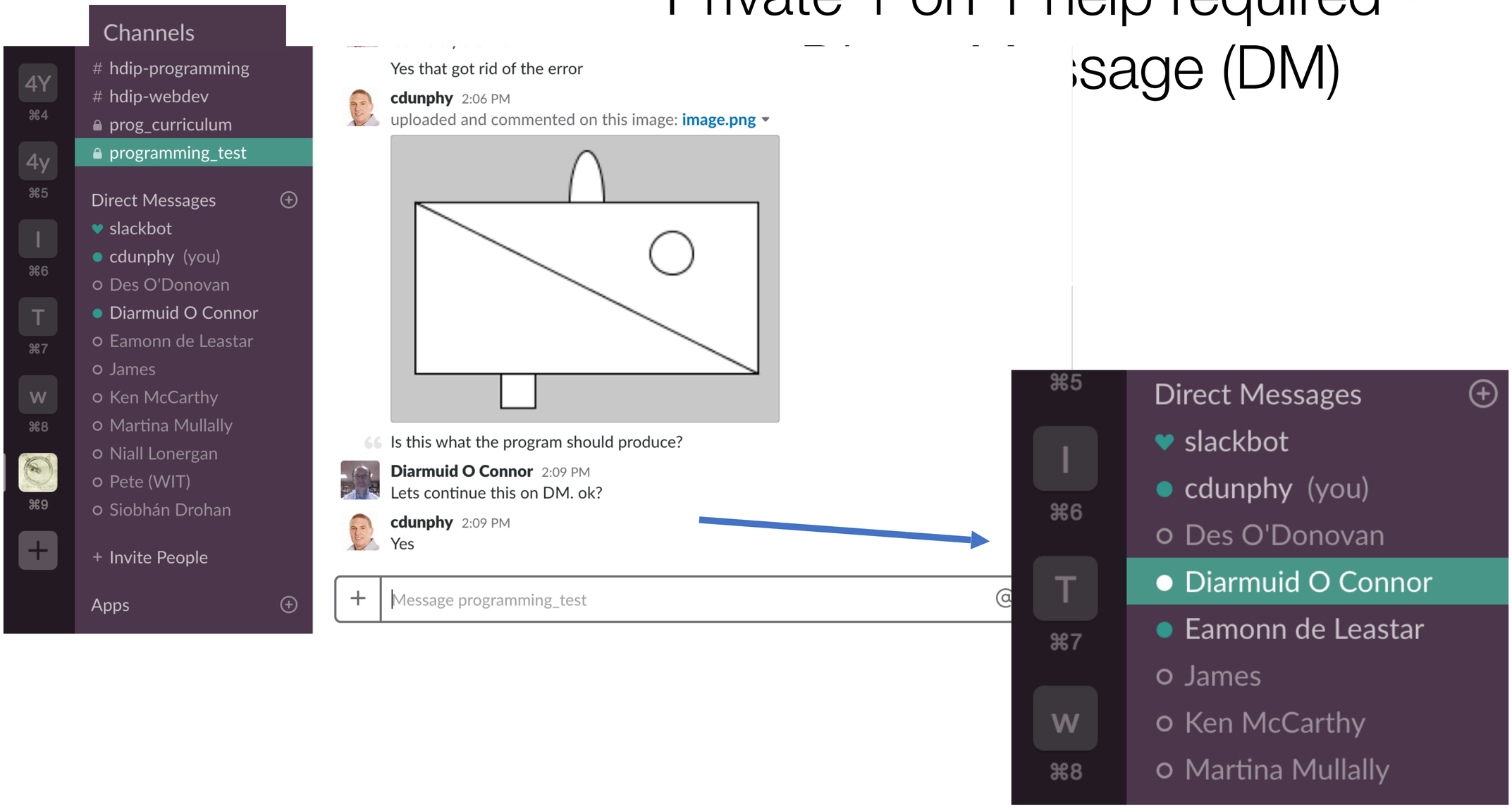
OR

drag n’ drop the file to here

Simple issue resolved on chat text by peers or tutor

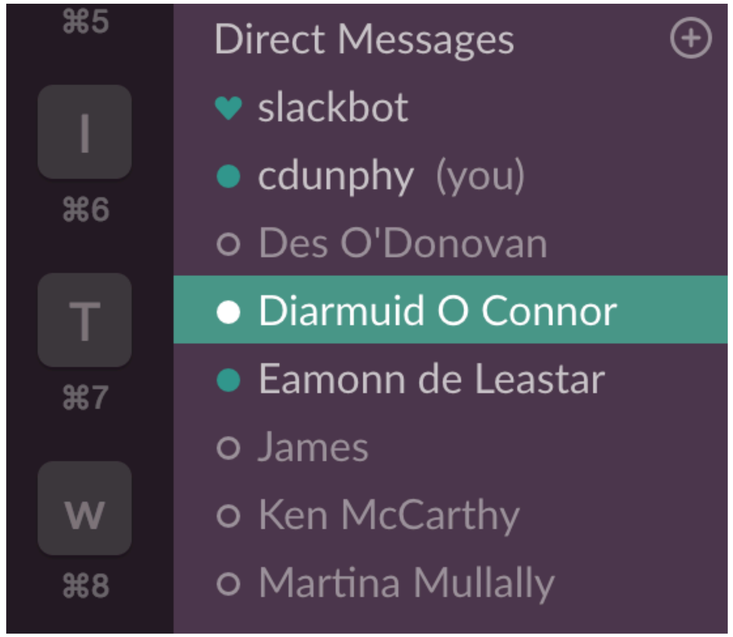


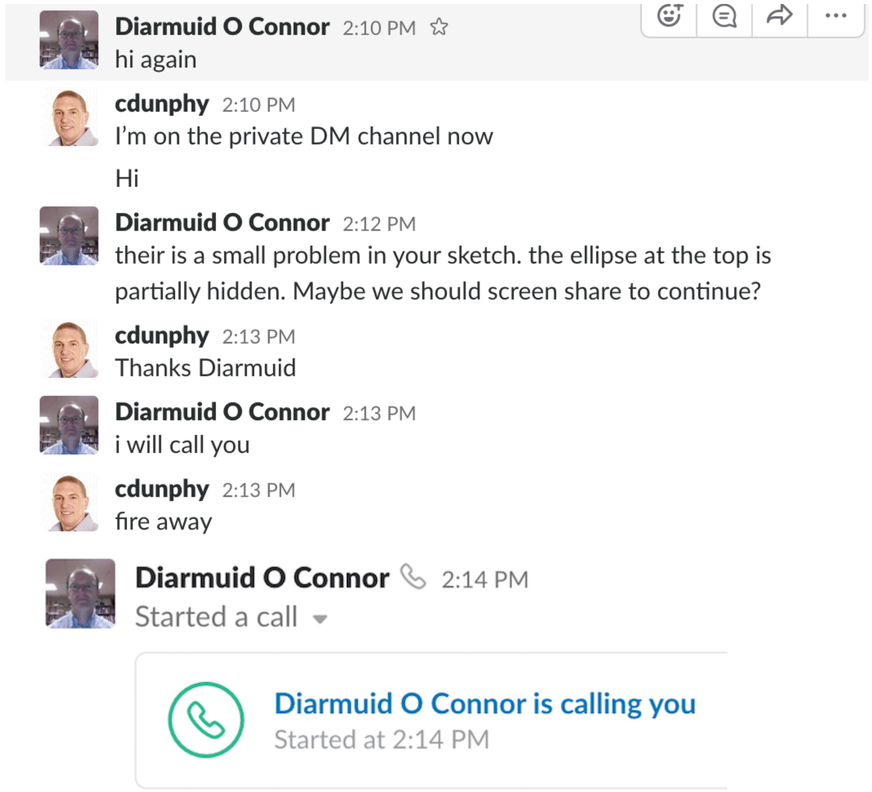
Private 1 on 1 help required - ssage (DM)

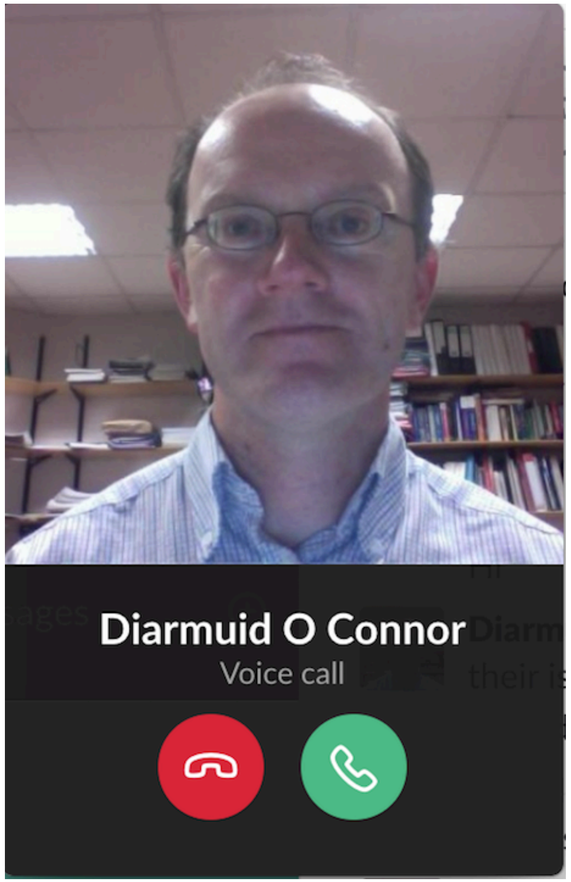


slack

Lecturer sharing screen (call required)





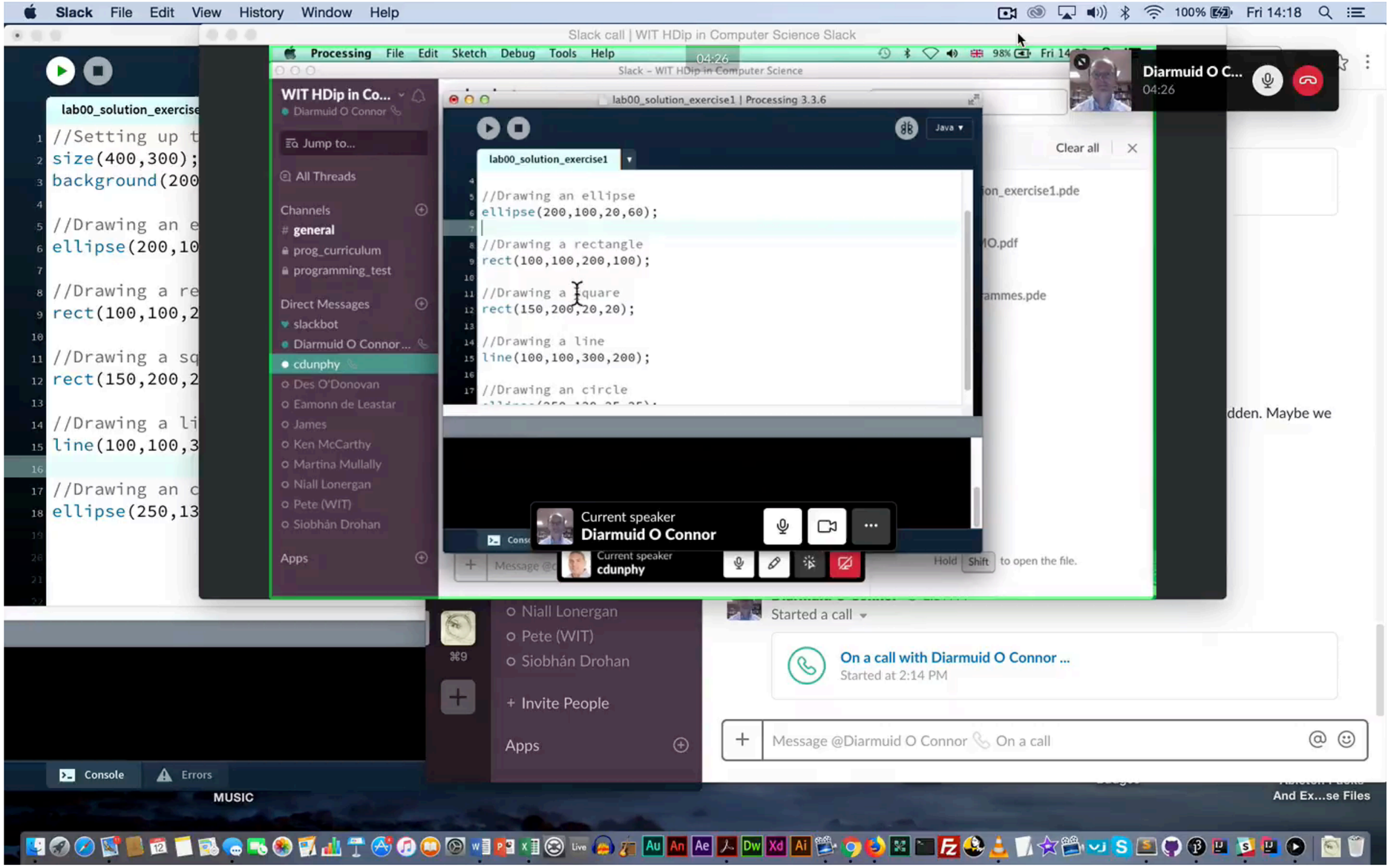


Mic

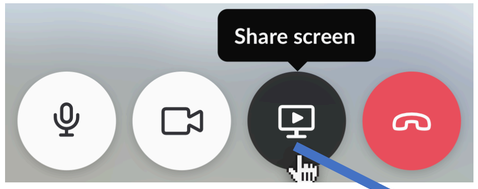
Video
Webcam

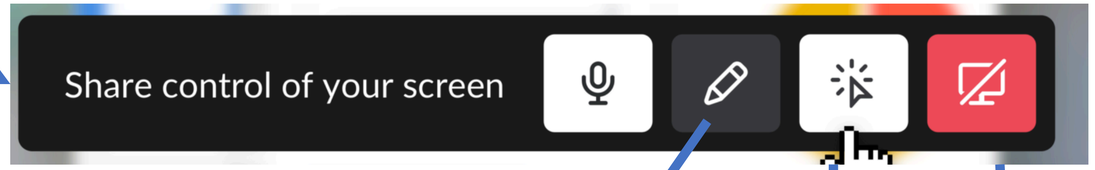
Screen
Desktop

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



Student screen sharing options





Enable others to draw on your screen

Full Control

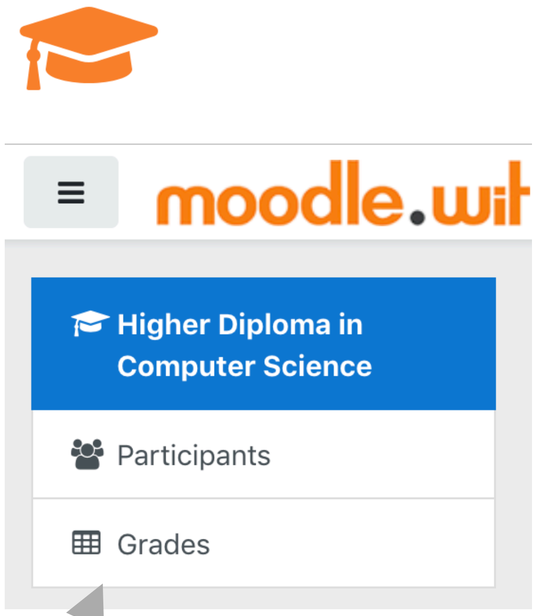
Stop Sharing

Moodle

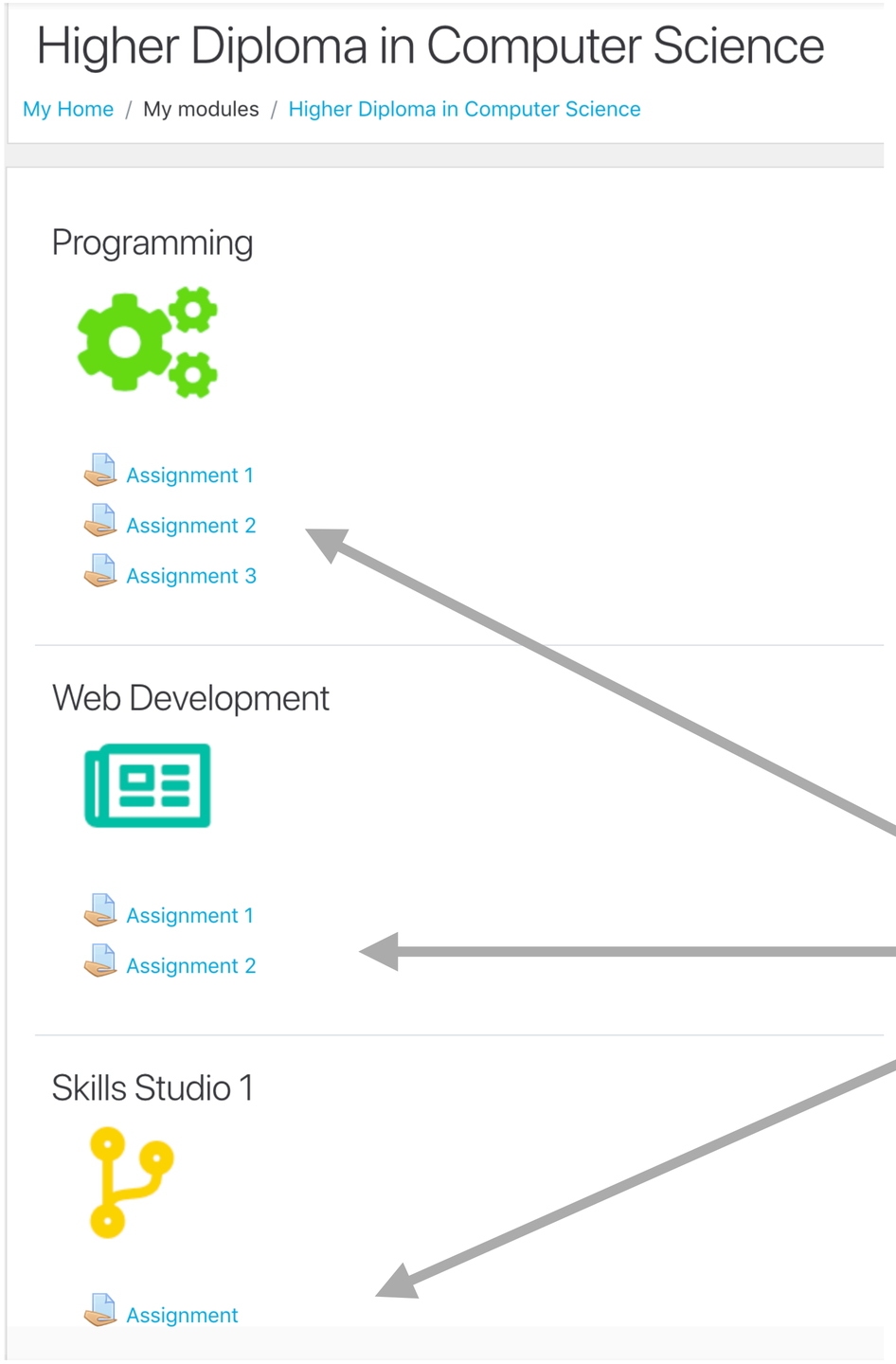
WIT E-Learning
Platform
Used for Assignment
Submission +
feedback + grades

Occasionally used for
additional document
distribution

Moodle



Grades



Assignment Submissions

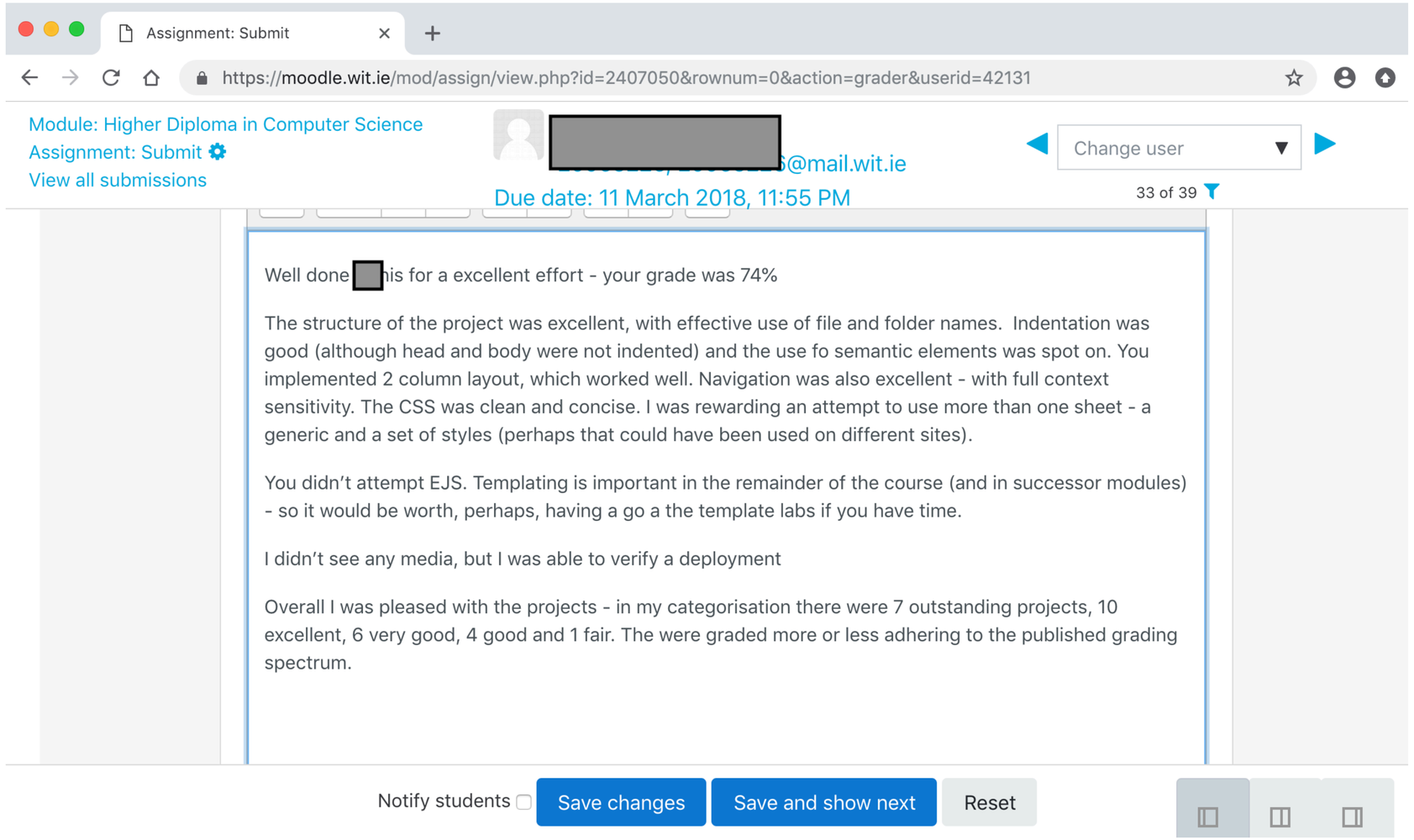
Moodle

Assessment feedback

Web Development

Assignment 1

Assignment 2

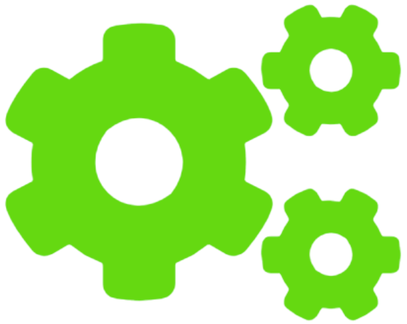


Higher Diploma in Computer Science 2019

Department of Computing & Mathematics, WIT

Semester 1: January - June, 2019

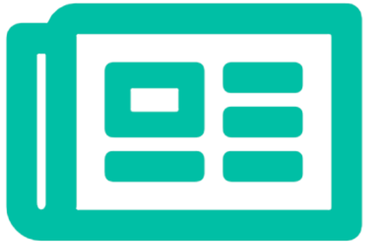
Programming



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

10 Credits

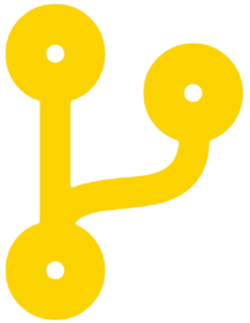
Web Development



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

5 Credits

Skills Studio 1



javascript · node · express · git · github · glitch

2.5 Credits