-- slack bot --

The following specification will highlight a slack bot project to better help the swap and covering of work shifts.

The slack bot project will interpret slack messages from a specific channel in a workspace, determine if the message is a coworker (not myself) that requires a shift to be taken for them, check the shift's duration against the user's personal google calendar to check for availabilities and determine if the user is available. If available, the bot will post a reply to the message as the user to take the shift and add that shift automatically to the google calendar with details regarding the class name, and rooms. The bot will NOT automatically receive shifts on the current day.

Example inputs are below:

message: "Lucas Harvey: Hello, would anyone like to take my lab tomorrow (Thursday) from 12-2pm?"

google calendar -> available

response: "sure"

Google calendar -> new event at Thursday 12-2pm named "H11A tabla"

can anyone take the lab portion of H13A?

google calendar -> not available on Thursday 3-4pm

no response

Google calendar -> no new event

Can anyone take W11A in-person tut+lab this Wednesday (26th Feb)?

google calendar -> available

response: sure.

Google calendar -> new event named "W11A Quadrangle G031 + tabla"

To give further context regarding the shift system, the format "M16B" means Monday, 4pm class. T14C means Tuesday 2pm and H09B means Thursday 9am class. Classes run from 9am to 8pm in the afternoon. The last letter has no impact on the date/time of the class.

Additionally, each class spans 3 hours from the time start, with a tutorial portion taking the first hour and the lab portion taking the final two hours. The bot will be required to determine which portion of the class a swap is required, including the correct class times, availabilities and rooms. A typical abbreviation used is "TLB" which stands for tutorial + lab, which "lab" stands for lab only. However, usually unless explicitly specified, a "tutorial" includes the whole TLB.

For the google calendar event, include the correct class name, the full name for the tutorial room and either "tabla" or "bongo" as the lab room.

In terms of specific project structures, there should be 3 separate modules for the slack portion, google calendar portion, and chatGPT portions. A simple front end module should also be added to make it easy to start, stop and configure the program (such as signing in to the API's).

The GPT portion should be done in c++, whilst the rest in typescript/css/html. Use react library for the simple front-end.

This is not part of the current assignment, but in the future the GPT should also be tuneable through python, so ensure the code structure can accommodate for that in the future.

A lookup table is available below, detailing class names, rooms, times and the regular tutors for the class.

**Course Timetable**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Lectures** |  |  |  |  |
| **COMP1521**  **1UGA** | Week 1-5,7-9 | Mon 14:00 – 16:00 | J17 Ainsworth G03 | [Angela Finlayson](mailto:Angela%20Finlayson%20%3cangela.f@unsw.edu.au%3e) |
|  | Week 1-5,7-10 | Wed 14:00 – 16:00 | Online YouTube |  |
| **COMP1521**  **1UGB** | Week 1-5,7-9 | Mon 14:00 – 16:00 | Online YouTube | [Angela Finlayson](mailto:Angela%20Finlayson%20%3cangela.f@unsw.edu.au%3e) |
|  | Week 1-5,7-10 | Wed 14:00 – 16:00 | Online YouTube |  |
| **Tutorials and Laboratories** |  |  |  |  |
| **M16A**  **mon16a** | Week 1-5,7-9 | Mon 16:00 – 17:00 | Online Blackboard Collaborate | [Jessica Xu](mailto:Jessica%20Xu%20%3cjessica.xu3@student.unsw.edu.au%3e)  + [Joanna Wong](mailto:Joanna%20Wong%20%3cjoanna.c.wong@student.unsw.edu.au%3e) |
|  | Week 1-5,7-9 | Mon 17:00 – 19:00 | Online Blackboard Collaborate |  |
| **M16B**  **mon16-bongo** | Week 1-5,7-9 | Mon 16:00 – 17:00 | [K-D16-G05](https://www.learningenvironments.unsw.edu.au/search?keywords=K-D16-G05) Goldstein G05 | [Raymond Li](mailto:Raymond%20Li%20%3craymond.x.li@student.unsw.edu.au%3e)  + [Siyu Qiu](mailto:Siyu%20Qiu%20%3csiyu.qiu1@unsw.edu.au%3e) |
|  | Week 1-5,7-9 | Mon 17:00 – 19:00 | [CSE Lab](https://taggi.cse.unsw.edu.au/FAQ/CSE_lab_map/) Bongo Lab K17 G07A |  |
| **M17A**  **mon17-tabla** | Week 1-5,7-9 | Mon 17:00 – 18:00 | [K-E15-1046](https://www.learningenvironments.unsw.edu.au/search?keywords=K-E15-1046) Quadrangle 1046 | [James Appleton](mailto:James%20Appleton%20%3cj.appleton@student.unsw.edu.au%3e)  + [Agnes Tjokrosetio](mailto:Agnes%20Tjokrosetio%20%3ca.tjokrosetio@student.unsw.edu.au%3e) |
|  | Week 1-5,7-9 | Mon 18:00 – 20:00 | [CSE Lab](https://taggi.cse.unsw.edu.au/FAQ/CSE_lab_map/) Tabla Lab K17 G07B |  |
| **T11A**  **tue11-tabla** | Week 1-5,7-10 | Tue 11:00 – 12:00 | [K-H13-1040](https://www.learningenvironments.unsw.edu.au/search?keywords=K-H13-1040) H13 Lawrence East 1040 | [Olivia Ding](mailto:Olivia%20Ding%20%3co.ding@student.unsw.edu.au%3e)  + [Callum Reilly](mailto:Callum%20Reilly%20%3ccallum.reilly@student.unsw.edu.au%3e) |
|  | Week 1-5,7-10 | Tue 12:00 – 14:00 | [CSE Lab](https://taggi.cse.unsw.edu.au/FAQ/CSE_lab_map/) Tabla Lab K17 G07B |  |
| **T11B**  **tue11-bongo** | Week 1-5,7-10 | Tue 11:00 – 12:00 | [K-H13-1041](https://www.learningenvironments.unsw.edu.au/search?keywords=K-H13-1041) H13 Lawrence East 1041 | [Selina Wu](mailto:Selina%20Wu%20%3cselina.wu@student.unsw.edu.au%3e)  + [Joanna Wong](mailto:Joanna%20Wong%20%3cjoanna.c.wong@student.unsw.edu.au%3e) |
|  | Week 1-5,7-10 | Tue 12:00 – 14:00 | [CSE Lab](https://taggi.cse.unsw.edu.au/FAQ/CSE_lab_map/) Bongo Lab K17 G07A |  |
| **T13A**  **tue13-tabla** | Week 1-5,7-10 | Tue 13:00 – 14:00 | [K-E4-115](https://www.learningenvironments.unsw.edu.au/search?keywords=K-E4-115) Squarehouse 115 | [Alex Blackmore](mailto:Alex%20Blackmore%20%3calexander.blackmore@student.unsw.edu.au%3e)  + [Selina Wu](mailto:Selina%20Wu%20%3cselina.wu@student.unsw.edu.au%3e) |
|  | Week 1-5,7-10 | Tue 14:00 – 16:00 | [CSE Lab](https://taggi.cse.unsw.edu.au/FAQ/CSE_lab_map/) Tabla Lab K17 G07B |  |
| **T13B**  **tue13-bongo** | Week 1-5,7-10 | Tue 13:00 – 14:00 | [K-E15-G054](https://www.learningenvironments.unsw.edu.au/search?keywords=K-E15-G054) Quadrangle G054 | [Abby Lin](mailto:Abby%20Lin%20%3cabby.lin@student.unsw.edu.au%3e)  + [Flynn Lambrechts](mailto:Flynn%20Lambrechts%20%3cflynn.lambrechts@student.unsw.edu.au%3e) |
|  | Week 1-5,7-10 | Tue 14:00 – 16:00 | [CSE Lab](https://taggi.cse.unsw.edu.au/FAQ/CSE_lab_map/) Bongo Lab K17 G07A |  |
| **T15A**  **tue15-bongo** | Week 1-5,7-10 | Tue 15:00 – 16:00 | [K-D16-G05](https://www.learningenvironments.unsw.edu.au/search?keywords=K-D16-G05) Goldstein G05 | [Callum Reilly](mailto:Callum%20Reilly%20%3ccallum.reilly@student.unsw.edu.au%3e)  + [Michael He](mailto:Michael%20He%20%3cmichael.he@student.unsw.edu.au%3e) |
|  | Week 1-5,7-10 | Tue 16:00 – 18:00 | [CSE Lab](https://taggi.cse.unsw.edu.au/FAQ/CSE_lab_map/) Bongo Lab K17 G07A |  |
| **T15B**  **tue15-tabla** | Week 1-5,7-10 | Tue 15:00 – 16:00 | [K-E15-G054](https://www.learningenvironments.unsw.edu.au/search?keywords=K-E15-G054) Quadrangle G054 | [Tasfia Ahmed](mailto:Tasfia%20Ahmed%20%3ctasfia.ahmed@student.unsw.edu.au%3e)  + [Agnes Tjokrosetio](mailto:Agnes%20Tjokrosetio%20%3ca.tjokrosetio@student.unsw.edu.au%3e) |
|  | Week 1-5,7-10 | Tue 16:00 – 18:00 | [CSE Lab](https://taggi.cse.unsw.edu.au/FAQ/CSE_lab_map/) Tabla Lab K17 G07B |  |
| **T15C**  **tue15c** | Week 1-5,7-10 | Tue 15:00 – 16:00 | Online Blackboard Collaborate | [Jessica Xu](mailto:Jessica%20Xu%20%3cjessica.xu3@student.unsw.edu.au%3e)  + [Olivia Ding](mailto:Olivia%20Ding%20%3co.ding@student.unsw.edu.au%3e) |
|  | Week 1-5,7-10 | Tue 16:00 – 18:00 | Online Blackboard Collaborate |  |
| **T17A**  **tue17-tabla** | Week 1-5,7-10 | Tue 17:00 – 18:00 | [K-D16-G07](https://www.learningenvironments.unsw.edu.au/search?keywords=K-D16-G07) Goldstein G07 | [Siyu Qiu](mailto:Siyu%20Qiu%20%3csiyu.qiu1@unsw.edu.au%3e)  + [Philip Tokareff](mailto:Philip%20Tokareff%20%3cp.tokareff@student.unsw.edu.au%3e) |
|  | Week 1-5,7-10 | Tue 18:00 – 20:00 | [CSE Lab](https://taggi.cse.unsw.edu.au/FAQ/CSE_lab_map/) Tabla Lab K17 G07B |  |
| **T17B**  **tue17-bongo** | Week 1-5,7-10 | Tue 17:00 – 18:00 | [K-G14-252](https://www.learningenvironments.unsw.edu.au/search?keywords=K-G14-252) Webster 252 | [Abby Lin](mailto:Abby%20Lin%20%3cabby.lin@student.unsw.edu.au%3e)  + [Daniel Chen](mailto:Daniel%20Chen%20%3cz5420321@unsw.edu.au%3e) |
|  | Week 1-5,7-10 | Tue 18:00 – 20:00 | [CSE Lab](https://taggi.cse.unsw.edu.au/FAQ/CSE_lab_map/) Bongo Lab K17 G07A |  |
| **W09A**  **wed09-tabla** | Week 1-5,7-10 | Wed 09:00 – 10:00 | [K-E15-G047](https://www.learningenvironments.unsw.edu.au/search?keywords=K-E15-G047) Quadrangle G047 | [Cass Eliot](mailto:Cass%20Eliot%20%3cc.eliot@student.unsw.edu.au%3e)  + [Sumit Kamath](mailto:Sumit%20Kamath%20%3cs.kamath@student.unsw.edu.au%3e) |
|  | Week 1-5,7-10 | Wed 10:00 – 12:00 | [CSE Lab](https://taggi.cse.unsw.edu.au/FAQ/CSE_lab_map/) Tabla Lab K17 G07B |  |
| **W09B**  **wed09-bongo** | Week 1-5,7-10 | Wed 09:00 – 10:00 | [K-H13-1042](https://www.learningenvironments.unsw.edu.au/search?keywords=K-H13-1042) H13 Lawrence East 1042 | [Anna Brew](mailto:Anna%20Brew%20%3ca.brew@student.unsw.edu.au%3e)  + [Ashley Saipaia](mailto:Ashley%20Saipaia%20%3ca.saipaia@student.unsw.edu.au%3e) |
|  | Week 1-5,7-10 | Wed 10:00 – 12:00 | [CSE Lab](https://taggi.cse.unsw.edu.au/FAQ/CSE_lab_map/) Bongo Lab K17 G07A |  |
| **W11A**  **wed11-tabla** | Week 1-5,7-10 | Wed 11:00 – 12:00 | [K-E15-G031](https://www.learningenvironments.unsw.edu.au/search?keywords=K-E15-G031) Quadrangle G031 | [Daniel Chen](mailto:Daniel%20Chen%20%3cz5420321@unsw.edu.au%3e)  + [Hanan Hassan](mailto:Hanan%20Hassan%20%3ch.hassan@student.unsw.edu.au%3e) |
|  | Week 1-5,7-10 | Wed 12:00 – 14:00 | [CSE Lab](https://taggi.cse.unsw.edu.au/FAQ/CSE_lab_map/) Tabla Lab K17 G07B |  |
| **W11B**  **wed11-bongo** | Week 1-5,7-10 | Wed 11:00 – 12:00 | [K-K15-G32](https://www.learningenvironments.unsw.edu.au/search?keywords=K-K15-G32) Old Main Building G32 | [Alex Blackmore](mailto:Alex%20Blackmore%20%3calexander.blackmore@student.unsw.edu.au%3e)  + [James Appleton](mailto:James%20Appleton%20%3cj.appleton@student.unsw.edu.au%3e) |
|  | Week 1-5,7-10 | Wed 12:00 – 14:00 | [CSE Lab](https://taggi.cse.unsw.edu.au/FAQ/CSE_lab_map/) Bongo Lab K17 G07A |  |
| **W16A**  **wed16a** | Week 1-5,7-10 | Wed 16:00 – 17:00 | Online Blackboard Collaborate | [Jimmy Kirkpatrick](mailto:Jimmy%20Kirkpatrick%20%3cjames.kirkpatrick@student.unsw.edu.au%3e)  + [Brodie Hales](mailto:Brodie%20Hales%20%3cbrodie.hales@student.unsw.edu.au%3e) |
|  | Week 1-5,7-10 | Wed 17:00 – 19:00 | Online Blackboard Collaborate |  |
| **W17A**  **wed17-bongo** | Week 1-5,7-10 | Wed 17:00 – 18:00 | [K-G14-252](https://www.learningenvironments.unsw.edu.au/search?keywords=K-G14-252) Webster 252 | [Tasfia Ahmed](mailto:Tasfia%20Ahmed%20%3ctasfia.ahmed@student.unsw.edu.au%3e)  + [Amy Hodder](mailto:Amy%20Hodder%20%3cz5362938@unsw.edu.au%3e) |
|  | Week 1-5,7-10 | Wed 18:00 – 20:00 | [CSE Lab](https://taggi.cse.unsw.edu.au/FAQ/CSE_lab_map/) Bongo Lab K17 G07A |  |
| **H09A**  **thu09-bongo** | Week 1-5,7-10 | Thu 09:00 – 10:00 | [K-M15-540](https://www.learningenvironments.unsw.edu.au/search?keywords=K-M15-540) Rupert Myers 540 | [Jack Robbers](mailto:Jack%20Robbers%20%3cj.robbers@unsw.edu.au%3e)  + [Alex Knight-Viale](mailto:Alex%20Knight-Viale%20%3ca.knightviale@student.unsw.edu.au%3e) |
|  | Week 1-5,7-10 | Thu 10:00 – 12:00 | [CSE Lab](https://taggi.cse.unsw.edu.au/FAQ/CSE_lab_map/) Bongo Lab K17 G07A |  |
| **H09B**  **thu09-tabla** | Week 1-5,7-10 | Thu 09:00 – 10:00 | [K-H13-1040](https://www.learningenvironments.unsw.edu.au/search?keywords=K-H13-1040) H13 Lawrence East 1040 | [Anna Brew](mailto:Anna%20Brew%20%3ca.brew@student.unsw.edu.au%3e)  + [Sumit Kamath](mailto:Sumit%20Kamath%20%3cs.kamath@student.unsw.edu.au%3e) |
|  | Week 1-5,7-10 | Thu 10:00 – 12:00 | [CSE Lab](https://taggi.cse.unsw.edu.au/FAQ/CSE_lab_map/) Tabla Lab K17 G07B |  |
| **H11A**  **thu11-tabla** | Week 1-5,7-10 | Thu 11:00 – 12:00 | [K-H13-1040](https://www.learningenvironments.unsw.edu.au/search?keywords=K-H13-1040) H13 Lawrence East 1040 | [Hanan Hassan](mailto:Hanan%20Hassan%20%3ch.hassan@student.unsw.edu.au%3e)  + [Lucas Harvey](mailto:Lucas%20Harvey%20%3clucas.harvey@student.unsw.edu.au%3e) |
|  | Week 1-5,7-10 | Thu 12:00 – 14:00 | [CSE Lab](https://taggi.cse.unsw.edu.au/FAQ/CSE_lab_map/) Tabla Lab K17 G07B |  |
| **H11B**  **thu11-bongo** | Week 1-5,7-10 | Thu 11:00 – 12:00 | [K-H13-2063](https://www.learningenvironments.unsw.edu.au/search?keywords=K-H13-2063) H13 Lawrence East 2063 | [Isabel Wee](mailto:Isabel%20Wee%20%3ci.wee@student.unsw.edu.au%3e)  + [Meredith Zhang](mailto:Meredith%20Zhang%20%3cmeredith.zhang@student.unsw.edu.au%3e) |
|  | Week 1-5,7-10 | Thu 12:00 – 14:00 | [CSE Lab](https://taggi.cse.unsw.edu.au/FAQ/CSE_lab_map/) Bongo Lab K17 G07A |  |
| **H13A**  **thu13-bongo** | Week 1-5,7-10 | Thu 13:00 – 14:00 | [K-F8-276](https://www.learningenvironments.unsw.edu.au/search?keywords=K-F8-276) Law Building 276 | [Xing He](mailto:Xing%20He%20%3cxing.he@unsw.edu.au%3e)  + [Jack Robbers](mailto:Jack%20Robbers%20%3cj.robbers@unsw.edu.au%3e) |
|  | Week 1-5,7-10 | Thu 14:00 – 16:00 | [CSE Lab](https://taggi.cse.unsw.edu.au/FAQ/CSE_lab_map/) Bongo Lab K17 G07A |  |
| **H13B**  **thu13-tabla** | Week 1-5,7-10 | Thu 13:00 – 14:00 | [K-F8-202](https://www.learningenvironments.unsw.edu.au/search?keywords=K-F8-202) Law Building 202 | [Larry Tang](mailto:Larry%20Tang%20%3clarry.tang@student.unsw.edu.au%3e)  + [Philip Tokareff](mailto:Philip%20Tokareff%20%3cp.tokareff@student.unsw.edu.au%3e) |
|  | Week 1-5,7-10 | Thu 14:00 – 16:00 | [CSE Lab](https://taggi.cse.unsw.edu.au/FAQ/CSE_lab_map/) Tabla Lab K17 G07B |  |
| **H15A**  **thu15a** | Week 1-5,7-10 | Thu 15:00 – 16:00 | Online Blackboard Collaborate | [Alex Knight-Viale](mailto:Alex%20Knight-Viale%20%3ca.knightviale@student.unsw.edu.au%3e)  + [Ashley Saipaia](mailto:Ashley%20Saipaia%20%3ca.saipaia@student.unsw.edu.au%3e) |
|  | Week 1-5,7-10 | Thu 16:00 – 18:00 | Online Blackboard Collaborate |  |
| **H15B**  **thu15-bongo** | Week 1-5,7-10 | Thu 15:00 – 16:00 | [K-H20-102](https://www.learningenvironments.unsw.edu.au/search?keywords=K-H20-102) Civil Engineering 102 | [JJ Roberts-White](mailto:JJ%20Roberts-White%20%3cj.robertswhite@student.unsw.edu.au%3e)  + [Henry Guo](mailto:Henry%20Guo%20%3cz5421443@unsw.edu.au%3e) |
|  | Week 1-5,7-10 | Thu 16:00 – 18:00 | [CSE Lab](https://taggi.cse.unsw.edu.au/FAQ/CSE_lab_map/) Bongo Lab K17 G07A |  |
| **H15C**  **thu15-tabla** | Week 1-5,7-10 | Thu 15:00 – 16:00 | [K-M15-430](https://www.learningenvironments.unsw.edu.au/search?keywords=K-M15-430) Ruper Myers 430 | [Olivia Ding](mailto:Olivia%20Ding%20%3co.ding@student.unsw.edu.au%3e)  + [Brodie Hales](mailto:Brodie%20Hales%20%3cbrodie.hales@student.unsw.edu.au%3e) |
|  | Week 1-5,7-10 | Thu 16:00 – 18:00 | [CSE Lab](https://taggi.cse.unsw.edu.au/FAQ/CSE_lab_map/) Tabla Lab K17 G07B |  |
| **H17A**  **thu17-tabla** | Week 1-5,7-10 | Thu 17:00 – 18:00 | [K-H13-2060](https://www.learningenvironments.unsw.edu.au/search?keywords=K-H13-2060) H13 Lawrence East 2060 | [Xing He](mailto:Xing%20He%20%3cxing.he@unsw.edu.au%3e)  + [Amy Hodder](mailto:Amy%20Hodder%20%3cz5362938@unsw.edu.au%3e) |
|  | Week 1-5,7-10 | Thu 18:00 – 20:00 | [CSE Lab](https://taggi.cse.unsw.edu.au/FAQ/CSE_lab_map/) Tabla Lab K17 G07B |  |
| **H17B**  **thu17-bongo** | Week 1-5,7-10 | Thu 17:00 – 18:00 | [K-H6-G16](https://www.learningenvironments.unsw.edu.au/search?keywords=K-H6-G16) Tyree Energy Technology G16 | [Jonah Hopkin](mailto:Jonah%20Hopkin%20%3cj.hopkin@student.unsw.edu.au%3e)  + [Ethan Haffenden](mailto:Ethan%20Haffenden%20%3ce.haffenden@student.unsw.edu.au%3e) |
|  | Week 1-5,7-10 | Thu 18:00 – 20:00 | [CSE Lab](https://taggi.cse.unsw.edu.au/FAQ/CSE_lab_map/) Bongo Lab K17 G07A |  |
| **F09A**  **fri09-bongo** | Week 1-5,7-8 | Fri 09:00 – 10:00 | [K-D16-G01](https://www.learningenvironments.unsw.edu.au/search?keywords=K-D16-G01) Goldstein G01 | [Flynn Lambrechts](mailto:Flynn%20Lambrechts%20%3cflynn.lambrechts@student.unsw.edu.au%3e)  + [Sophie Fox](mailto:Sophie%20Fox%20%3csophie.fox@unsw.edu.au%3e) |
|  | Week 1-5,7-8 | Fri 10:00 – 12:00 | [CSE Lab](https://taggi.cse.unsw.edu.au/FAQ/CSE_lab_map/) Bongo Lab K17 G07A |  |
| **F11A**  **fri11-tabla** | Week 1-5,7-8 | Fri 11:00 – 12:00 | [K-D16-G01](https://www.learningenvironments.unsw.edu.au/search?keywords=K-D16-G01) Goldstein G01 | [Cass Eliot](mailto:Cass%20Eliot%20%3cc.eliot@student.unsw.edu.au%3e)  + [Larry Tang](mailto:Larry%20Tang%20%3clarry.tang@student.unsw.edu.au%3e) |
|  | Week 1-5,7-8 | Fri 12:00 – 14:00 | [CSE Lab](https://taggi.cse.unsw.edu.au/FAQ/CSE_lab_map/) Tabla Lab K17 G07B |  |
| **F11B**  **fri11-bongo** | Week 1-5,7-8 | Fri 11:00 – 12:00 | [K-M15-510](https://www.learningenvironments.unsw.edu.au/search?keywords=K-M15-510) Rupert Myers 510 | [Isabel Wee](mailto:Isabel%20Wee%20%3ci.wee@student.unsw.edu.au%3e)  + [Jonah Hopkin](mailto:Jonah%20Hopkin%20%3cj.hopkin@student.unsw.edu.au%3e) |
|  | Week 1-5,7-8 | Fri 12:00 – 14:00 | [CSE Lab](https://taggi.cse.unsw.edu.au/FAQ/CSE_lab_map/) Bongo Lab K17 G07A |  |
| **F12A**  **fri12a** | Week 1-5,7-8 | Fri 12:00 – 13:00 | Online Blackboard Collaborate | [Jimmy Kirkpatrick](mailto:Jimmy%20Kirkpatrick%20%3cjames.kirkpatrick@student.unsw.edu.au%3e)  + [Sophie Fox](mailto:Sophie%20Fox%20%3csophie.fox@unsw.edu.au%3e) |
|  | Week 1-5,7-8 | Fri 13:00 – 15:00 | Online Blackboard Collaborate |  |
| **F13A**  **fri13-bongo** | Week 1-5,7-8 | Fri 13:00 – 14:00 | [K-G14-252](https://www.learningenvironments.unsw.edu.au/search?keywords=K-G14-252) Webster 252 | [Henry Guo](mailto:Henry%20Guo%20%3cz5421443@unsw.edu.au%3e)  + [Michael He](mailto:Michael%20He%20%3cmichael.he@student.unsw.edu.au%3e) |
|  | Week 1-5,7-8 | Fri 14:00 – 16:00 | [CSE Lab](https://taggi.cse.unsw.edu.au/FAQ/CSE_lab_map/) Bongo Lab K17 G07A |  |
| **F13B**  **fri13-tabla** | Week 1-5,7-8 | Fri 13:00 – 14:00 | [K-F8-301](https://www.learningenvironments.unsw.edu.au/search?keywords=K-F8-301) Law Building 301 | [Lucas Harvey](mailto:Lucas%20Harvey%20%3clucas.harvey@student.unsw.edu.au%3e)  + [Meredith Zhang](mailto:Meredith%20Zhang%20%3cmeredith.zhang@student.unsw.edu.au%3e) |
|  | Week 1-5,7-8 | Fri 14:00 – 16:00 | [CSE Lab](https://taggi.cse.unsw.edu.au/FAQ/CSE_lab_map/) Tabla Lab K17 G07B |  |
| **F15A**  **fri15-bongo** | Week 1-5,7-8 | Fri 15:00 – 16:00 | [K-G14-252](https://www.learningenvironments.unsw.edu.au/search?keywords=K-G14-252) Webster 252 | [Raymond Li](mailto:Raymond%20Li%20%3craymond.x.li@student.unsw.edu.au%3e)  + [Isabel Wee](mailto:Isabel%20Wee%20%3ci.wee@student.unsw.edu.au%3e) |
|  | Week 1-5,7-8 | Fri 16:00 – 18:00 | [CSE Lab](https://taggi.cse.unsw.edu.au/FAQ/CSE_lab_map/) Bongo Lab K17 G07A |  |