



CAMBRIDGE SPARK

```
347 .widget-area-sidebar {background:
348   font-size: 13px;
349 }
350
351
352 /* =Menu
353
354
355 #access {
356   display: inline-block;
357   height: 69px;
358   float: right;
359   margin: 11px 28px 0px 0px;
360   max-width: 800px;
361 }
362
363 #access ul {
364   font-size: 13px;
365   list-style: none;
366   margin: 0 0 0 -0.8125em;
367   padding-left: 0;
368   z-index: 99999;
369   text-align: right;
370
371 #access li {
372   display: inline-block;
373   text-align: left;
```

IT Requirements Guide

Apprenticeships Programmes

This is a guide to installing our recommended set of programs on your computer that you will need during your Apprenticeship:

- **Hardware:** a suitable computer with enough RAM
- **Tools**
 - Python package management
 - Version control tool
 - Remote delivery tool
 - Communication tool
 - Apprenticeship tool
 - EDUKATE.AI
 - Archive Files



Hardware Specifications

Hardware Specifications

There are very few hardware specifications that we recommend for apprenticeships

We recommend that you have

- a hard drive capacity of at least 100GB +
- CORES, RAM as below

	IDEAL	ADEQUATE	MINIMUM
CORES	4	2	2
RAM	16 GB	16 GB	8 GB



Tools Specifications

Required Tools

1. **Anaconda Python 3.7**
2. **Microsoft VS Code**
3. **Zoom**
4. **Slack**
5. **EDUKATE.AI**
6. **Aptem**
7. **Archive Files**



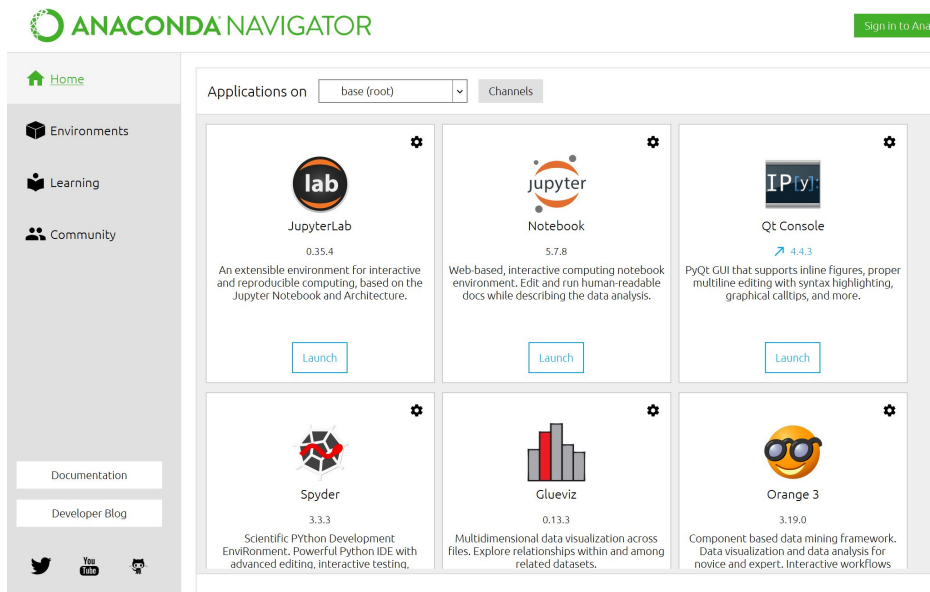
Anaconda Python 3.7

Anaconda



Anaconda provides the tools needed to easily:

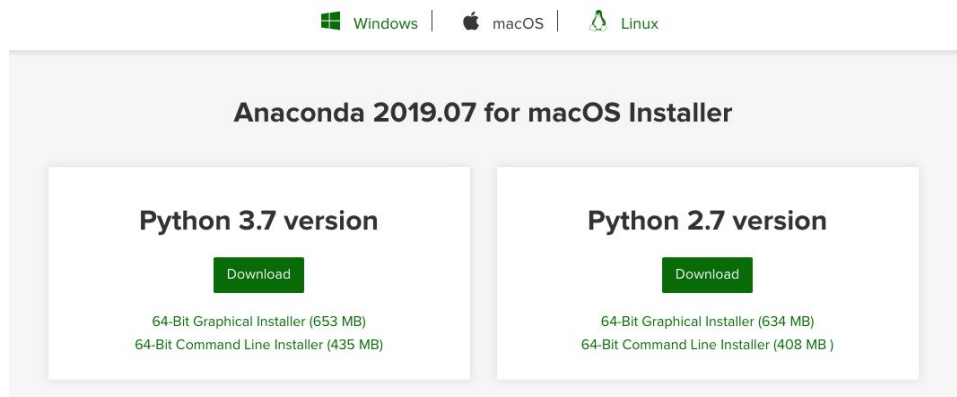
- Collect data from files, databases, and data lakes
- Manage environments with Conda
- Share, collaborate on, and reproduce projects
- Deploy projects into production with the single click of a button



Anaconda Python 3.7 - Installation

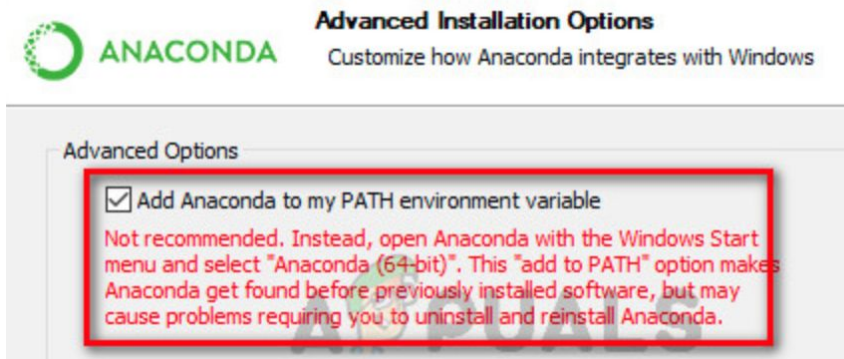
Installation of **Anaconda Distribution** will ensure your computer has access to **Python** and many of the **packages** commonly used for data science, analysis and visualisation.

[Download](#) the **Python 3.x version** for your operating system.



Anaconda Python 3.7 - Installation

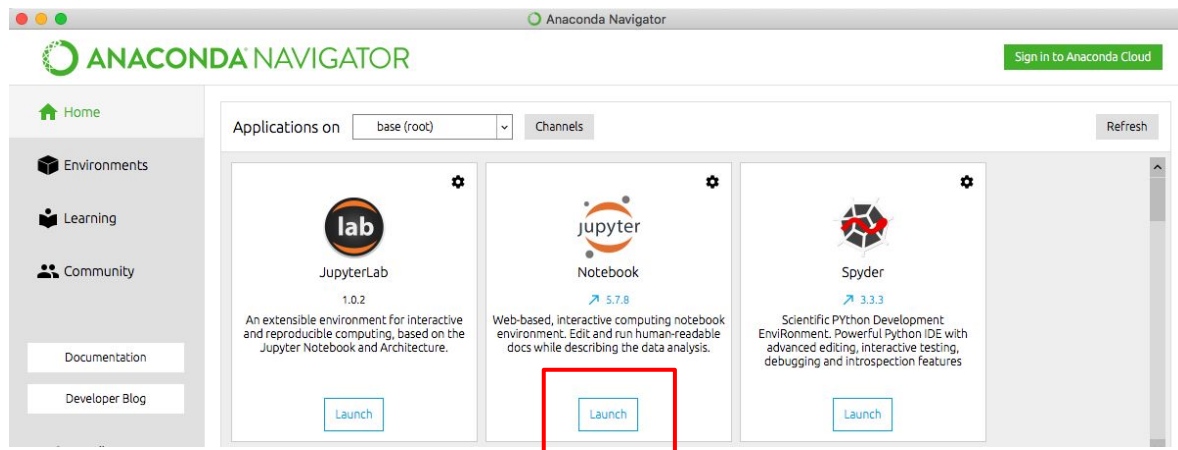
Windows users: During installation, we recommend that the **"Add Anaconda to my PATH environment variable"** checkbox is ticked (ignore the warning).



Anaconda Python 3.7 - Installation

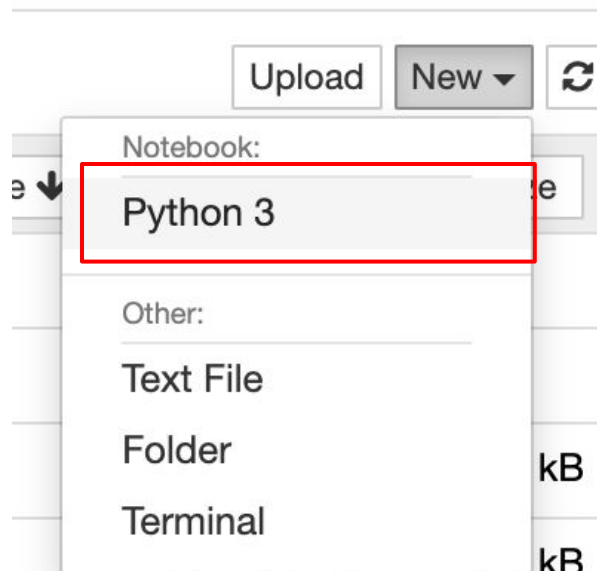
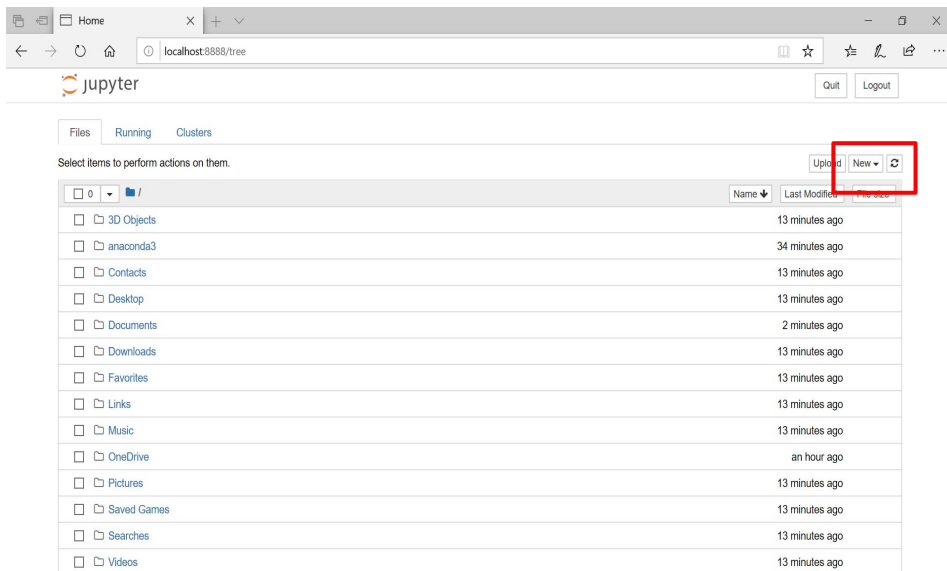
This is dealt with automatically for installations on other operating systems. The defaults are fine for the remaining settings.

You should then be able to access [Anaconda Navigator](#), from which you will be able to launch **Jupyter Notebook**. Click on the **Launch** button in Jupyter Notebook. This will start a new tab in your default browser.



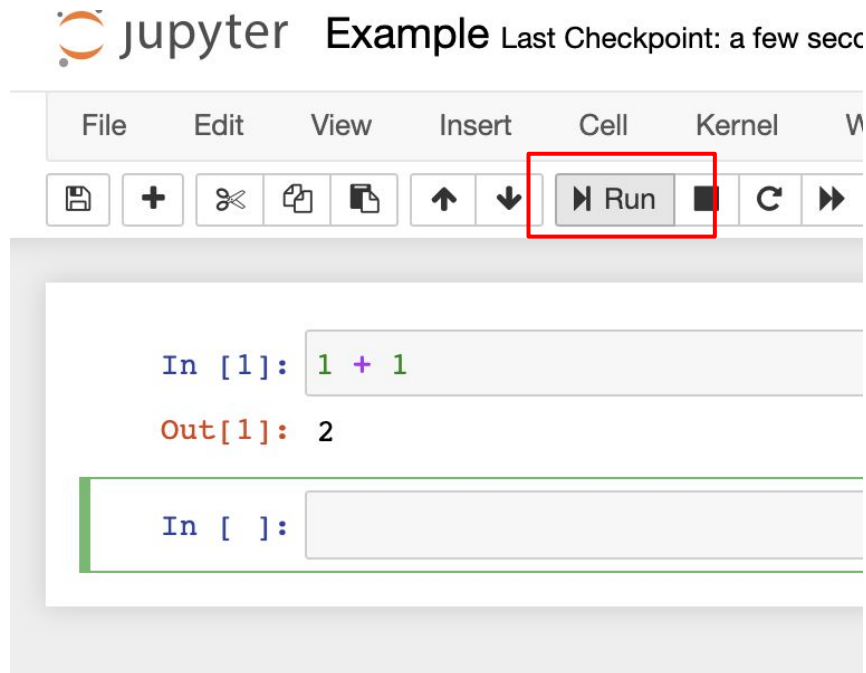
Anaconda Python 3.7 - Installation

After clicking on the Launch button in Jupyter Notebook. This will start a new tab in your default browser. You can then navigate to where you stored your notebooks, data, or where you want to create new ones. **Make sure Chrome** is your default browser, this tends not to work with Internet Explorer.



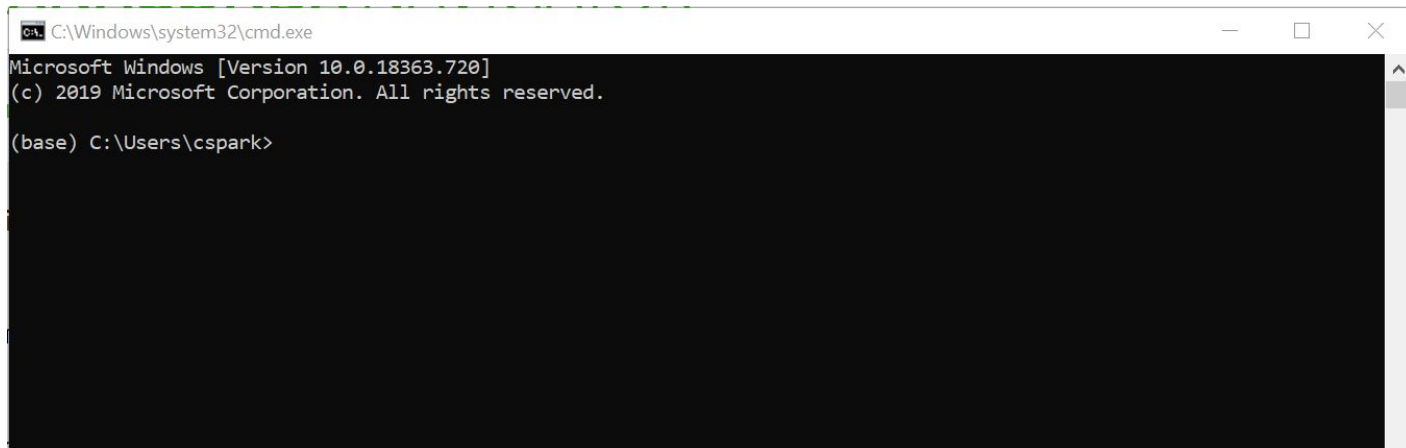
Anaconda Python 3.7 - Installation

When you click on the new button, you will be able to create a new notebook. Type `1 + 1` in a cell and execute it by clicking on the run button.



Anaconda Python 3.7 - Installation (Advanced Notes)

With Jupyter, you will only be able to see files that are on your main disk - external harddrives or virtual drives such as OneDrive will not show by default. In order to access those, you will need to start Jupyter from the command prompt. To do so, click on Launch for the CMD.exe Prompt (or find "Anaconda Prompt" in your applications):



```
C:\Windows\system32\cmd.exe
Microsoft Windows [Version 10.0.18363.720]
(c) 2019 Microsoft Corporation. All rights reserved.

(base) C:\Users\cspark>
```



Anaconda Python 3.7 - Installation (Advanced Notes)

Use `cd path/to/your/folder/` to navigate to the folder of your choice. Then run `jupyter notebook` to start Jupyter from this folder. Your notebooks will be connected to this prompt, so make sure to keep it open.

```
Anaconda Prompt (anaconda3) - jupyter notebook

(base) C:\Users\cspark>cd Documents

(base) C:\Users\cspark\Documents>jupyter notebook
[I 14:26:56.963 NotebookApp] The port 8888 is already in use, trying another port.
[I 14:26:57.016 NotebookApp] JupyterLab extension loaded from C:\Users\cspark\anaconda3\lib\site-packages\jupyterlab
[I 14:26:57.016 NotebookApp] JupyterLab application directory is C:\Users\cspark\anaconda3\share\jupyter\lab
[I 14:26:57.032 NotebookApp] Serving notebooks from local directory: C:\Users\cspark\Documents
[I 14:26:57.032 NotebookApp] The Jupyter Notebook is running at:
[I 14:26:57.032 NotebookApp] http://localhost:8889/?token=88ae85a96ba8fe0508bb6e3267b0012da7c64d2e55d8095c
[I 14:26:57.032 NotebookApp] or http://127.0.0.1:8889/?token=88ae85a96ba8fe0508bb6e3267b0012da7c64d2e55d8095c
[I 14:26:57.032 NotebookApp] Use Control-C to stop this server and shut down all kernels (twice to skip confirmation).
[C 14:26:57.055 NotebookApp]

To access the notebook, open this file in a browser:
    file:///C:/Users/cspark/AppData/Roaming/jupyter/runtime/nbserver-1496-open.html
Or copy and paste one of these URLs:
    http://localhost:8889/?token=88ae85a96ba8fe0508bb6e3267b0012da7c64d2e55d8095c
    or http://127.0.0.1:8889/?token=88ae85a96ba8fe0508bb6e3267b0012da7c64d2e55d8095c
```



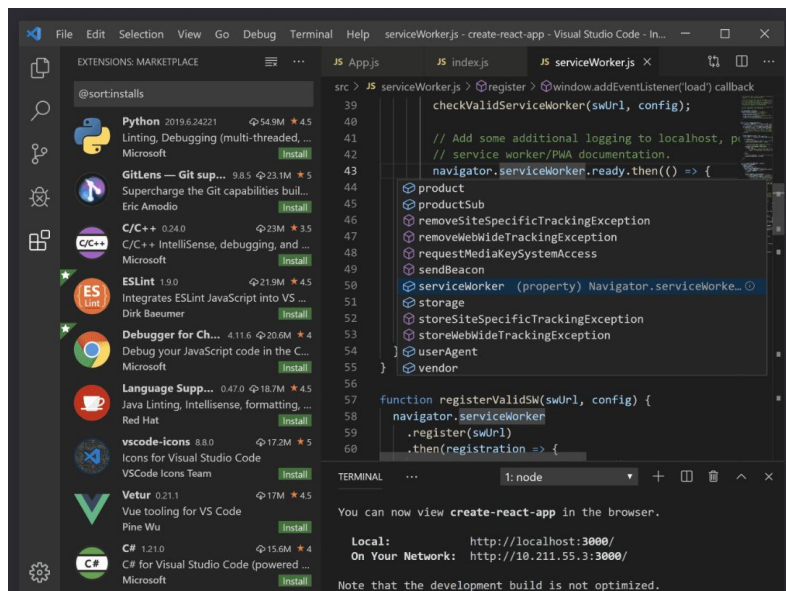


Microsoft VS Code

Microsoft VS Code

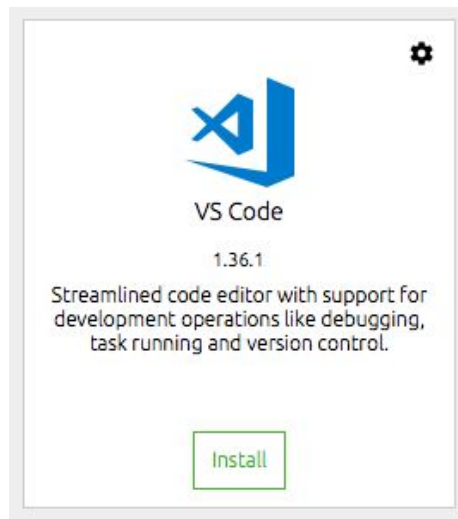
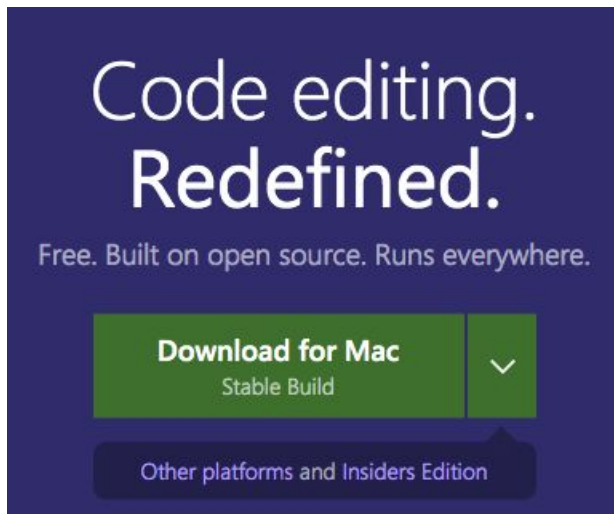


Visual Studio Code is a source-code editor developed by Microsoft for Windows, Linux and macOS. It includes support for debugging, embedded Git control and GitHub, syntax highlighting, intelligent code completion, snippets, and code refactoring.



Microsoft VS Code

Microsoft VS Code is a free, cross-platform code editor. It's available [here](#) (choose the **Stable** version for your operating system), or in **Anaconda Navigator**.

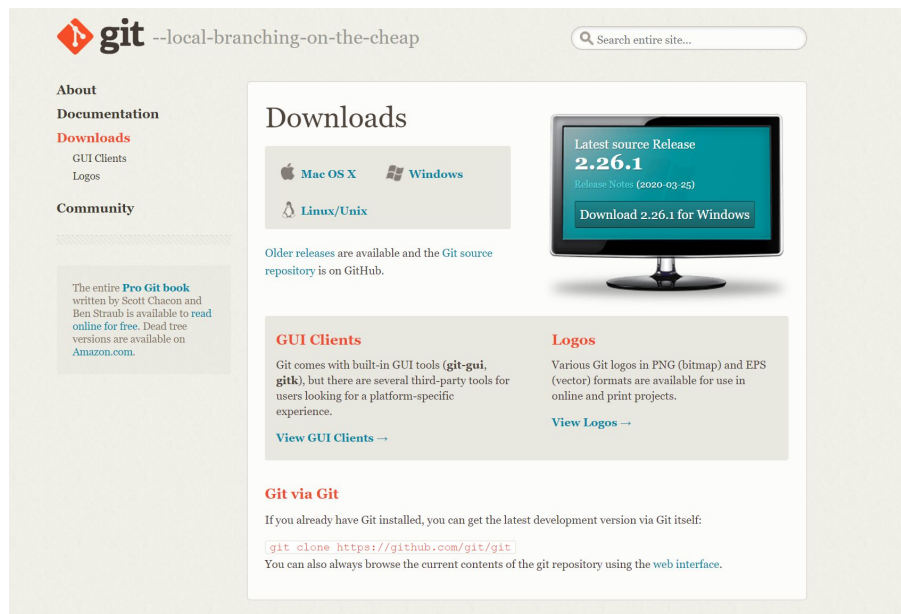




Git

Git is a **version control system** used by many systems for **software development and collaboration**.

[Download Git](#) for your operating system, then follow the installation instructions.



The screenshot shows the Git website with a sidebar on the left containing links for 'About', 'Documentation', 'Downloads', 'GUI Clients', 'Logos', and 'Community'. The main content area features a 'Downloads' section with buttons for 'Mac OS X', 'Windows', and 'Linux/Unix'. To the right of these buttons is a monitor displaying the 'Latest source Release 2.26.1' and a 'Download 2.26.1 for Windows' button. Below the download buttons, there is a section for 'GUI Clients' and another for 'Logos'. At the bottom, the 'Git via Git' section provides instructions on how to clone the repository and browse its contents.

Downloads

Mac OS X Windows Linux/Unix

Latest source Release
2.26.1
Release Notes (2020-03-25)
Download 2.26.1 for Windows

Older releases are available and the Git source repository is on GitHub.

GUI Clients

Git comes with built-in GUI tools (**git-gui**, **gitk**), but there are several third-party tools for users looking for a platform-specific experience.

[View GUI Clients →](#)

Logos

Various Git logos in PNG (bitmap) and EPS (vector) formats are available for use in online and print projects.

[View Logos →](#)

Git via Git

If you already have Git installed, you can get the latest development version via Git itself:

```
git clone https://github.com/git/git
```

You can also always browse the current contents of the git repository using the web interface.

A horizontal teal bar with a darker teal triangle on the right side.

Zoom

Zoom



Zoom provides a remote conferencing service that combines video conferencing, online meetings, chat, and mobile collaboration.

We will be using it for the delivery of live remote sessions.

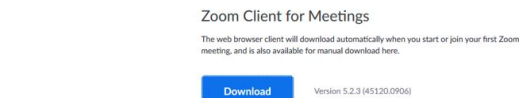
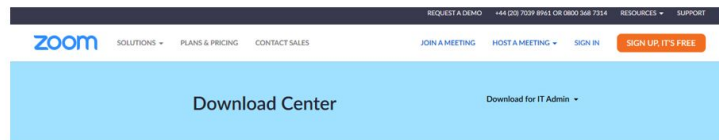
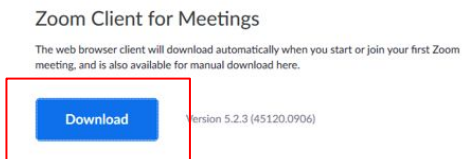
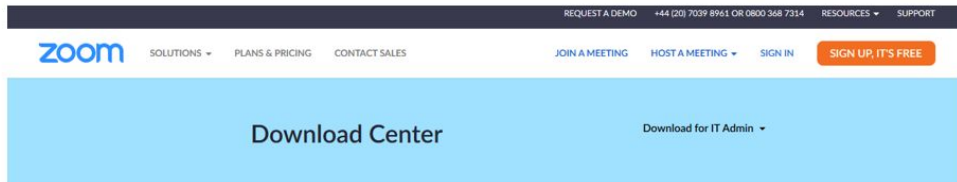
You have the following options how to access live sessions:

- **Download Zoom App** (we recommend this option!) - please see the instructions on the following slides
- **Use a web browser** (please use this option only if the installation of the Zoom App is not allowed on your machine!). In this case, please skip the following slides and go directly to a slide number 28.



Zoom - Zoom App Set Up Instructions

- Please download Zoom App here: <https://zoom.us/download> (**NOTE:** If you have Zoom already installed on your machine, **please go to slide 25!**)
- Click the blue 'Download' button and then click the 'Save File'.

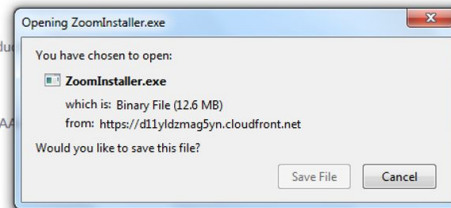


Education
Expand traditional classrooms in the cloud

Finance
Improve customer experiences & communications

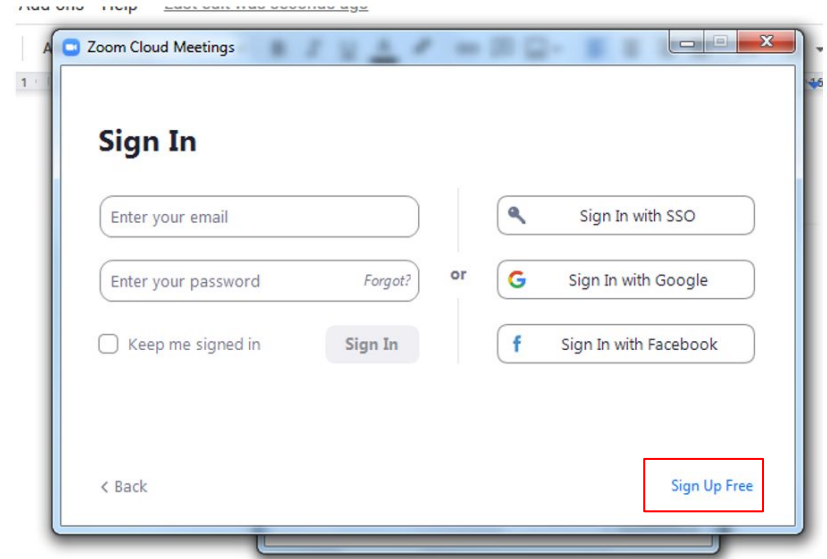
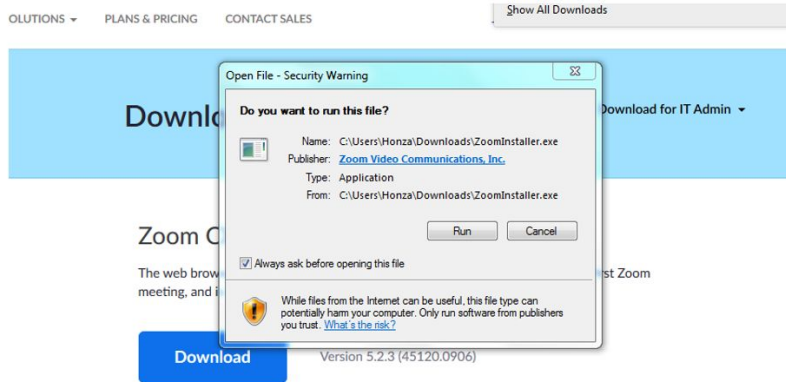
Government
Increase productivity for agencies

Healthcare
Enabling HIPAA & workflows



Zoom - Zoom App Set Up Instructions

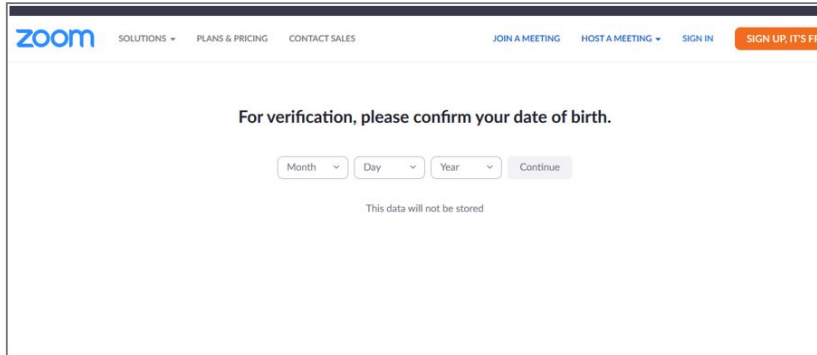
- Once the file has been downloaded, open it and click 'Run' and wait until Zoom App has been successfully installed on your machine.
- Open the Zoom App, you will be able to create your Zoom account
- Click the 'Sign Up Free' button



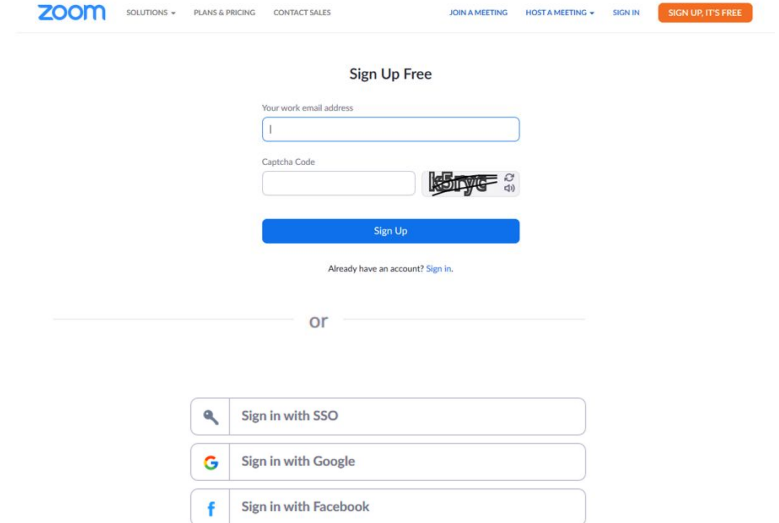
Zoom - Zoom App Set Up Instructions

You will be taken to the Zoom website:

- Please enter your date of birth and click 'Continue'
- You will be then asked to enter your work email address to sign up
- You can also use your SSO or Google login details to sign up



The screenshot shows the Zoom website's sign-up process. At the top, there is a navigation bar with the Zoom logo, links for SOLUTIONS, PLANS & PRICING, and CONTACT SALES, and buttons for JOIN A MEETING, HOST A MEETING, SIGN IN, and SIGN UP, IT'S FREE. The main content area has the heading "For verification, please confirm your date of birth." Below this, there are three dropdown menus for Month, Day, and Year, followed by a Continue button. A note at the bottom states "This data will not be stored".



The screenshot shows the Zoom website's sign-up process. At the top, there is a navigation bar with the Zoom logo, links for SOLUTIONS, PLANS & PRICING, and CONTACT SALES, and buttons for JOIN A MEETING, HOST A MEETING, SIGN IN, and SIGN UP, IT'S FREE. The main content area has the heading "Sign Up Free". Below this, there is a form for "Your work email address" with a text input field. Below the email field is a "Captcha Code" section with a text input field and a captcha image. A blue "Sign Up" button is below the captcha. Below the button, it says "Already have an account? Sign in." Below this, there is a section labeled "OR" with three buttons: "Sign in with SSO", "Sign in with Google", and "Sign in with Facebook".



Zoom - Zoom App Set Up Instructions

- You will receive an email asking you to activate your account, please do so by using the 'Activate Account' button.
- You will then be asked to enter your full name and create password.
- Click 'Continue', your Zoom account has now been created!



The image shows two parts of the Zoom account setup process. On the left is an email from Zoom with the subject 'Please activate your Zoom account'. The email body says 'Hello [Name], Welcome to Zoom! To activate your account please click the button below to verify your email address:' and includes a blue 'Activate Account' button. On the right is the Zoom website's activation page. It has a navigation bar with links like 'SOLUTIONS', 'PLANS & PRICING', 'CONTACT SALES', 'JOIN A MEETING', 'HOST A MEETING', 'SIGN IN', and a 'SIGN UP, IT'S FREE' button. The main heading is 'Welcome to Zoom'. Below it, a message says 'Hi, zan***@***.com. Your account has been successfully created. Please list your name and create a password to continue.' There are four input fields: 'First Name', 'Last Name', 'Password', and 'Confirm Password'. At the bottom, there is a 'Continue' button and a link to the 'Privacy Policy and Terms of Service'.

Please activate your Zoom account  [Inbox x](#)

Zoom <no-reply@zoom.us> to me 12:46 (0 minutes ago)

 Sign In

Hello

Welcome to Zoom!

To activate your account please click the button below to verify your email address:

[Activate Account](#)

zoom SOLUTIONS PLANS & PRICING CONTACT SALES JOIN A MEETING HOST A MEETING SIGN IN SIGN UP, IT'S FREE

Welcome to Zoom

Hi, zan***@***.com. Your account has been successfully created. Please list your name and create a password to continue.

First Name

Last Name

Password

Confirm Password

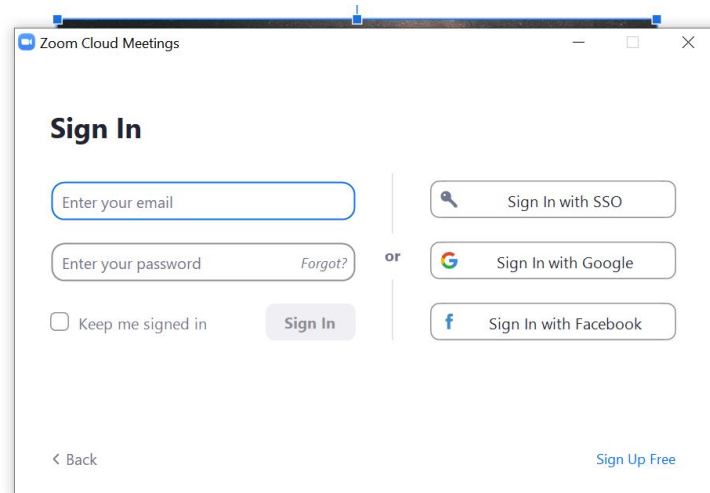
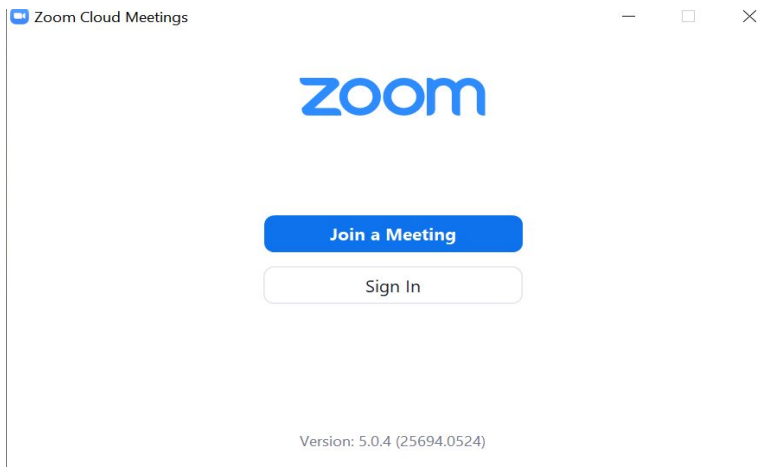
By signing up, I agree to the [Privacy Policy](#) and [Terms of Service](#).

[Continue](#)



Zoom - How to access live session via Zoom App

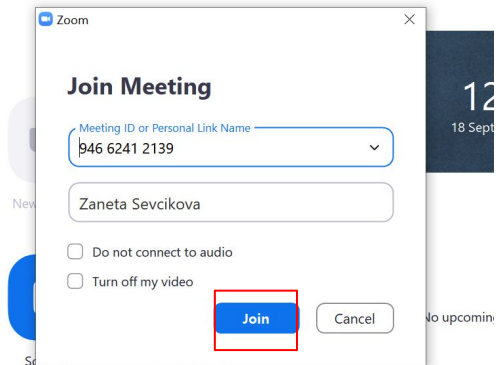
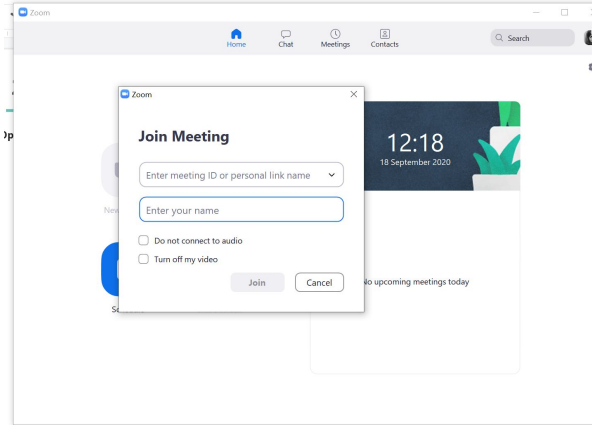
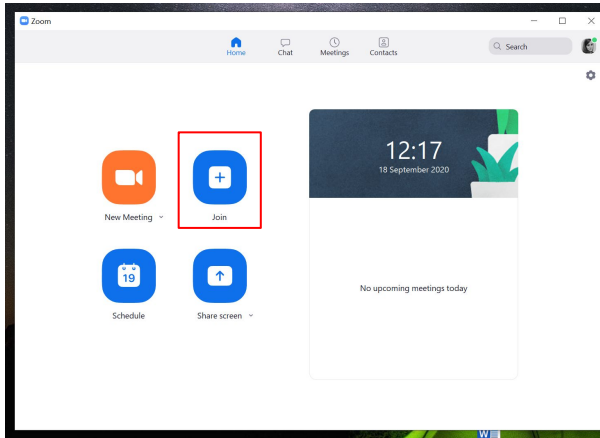
- Open the Zoom App on your machine, click 'Sign in' button and sign in with your login details or via SSO or Google.



Zoom - How to access live session via Zoom App

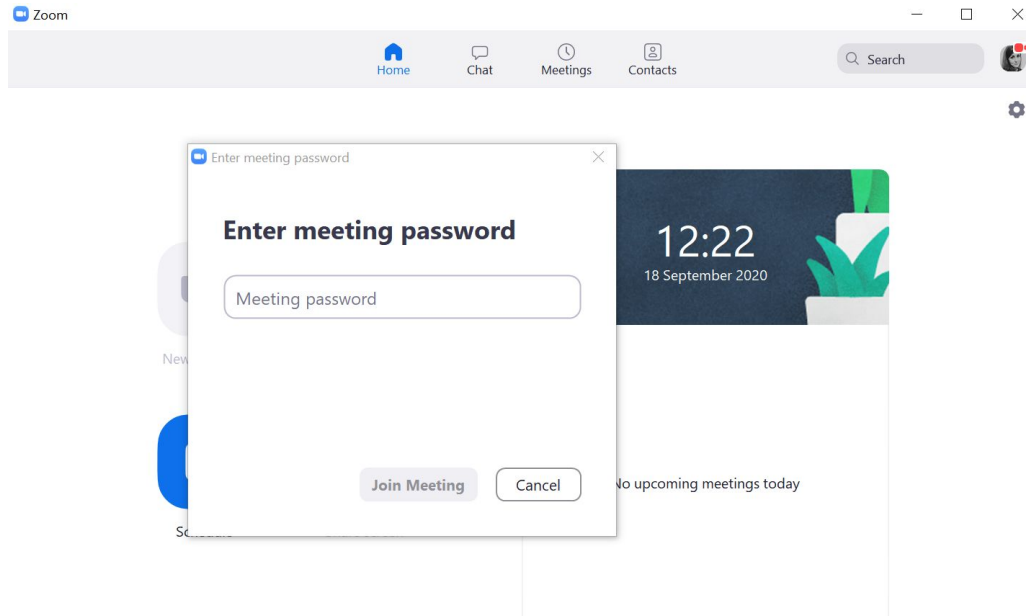


- Click the 'Join' button. Enter the Zoom link provided by Cambridge Spark and your full name (note that once you enter the link it will automatically change to the Meeting ID - this is fine).
- Click the 'Join' button to confirm



Zoom - How to access live session via Zoom App

- You will be asked to enter the meeting password, please do so (the password has been provided by Cambridge Spark together with the link for the live session.) Confirm the password by clicking on 'Join Meeting'.
- You will now enter the live session.



Zoom - How to access live session via a web browser

WEB BROWSER USERS ONLY (please use this option only if the installation of the Zoom App is not allowed on your machine)!

- Click on the link to the live session provided by Cambridge Spark. You will see the following page.
- Enter your full name and captcha code and click 'Join'. You will then enter the live session. If you are asked to enter a password, please do so (it has been provided to you together with the link for the live session).
- You will now enter the live session.

The screenshot shows the Zoom 'Join a Meeting' web interface. At the top, there is a dark navigation bar with links for 'REQUEST A DEMO', '+44 (0) 203 896 1000 OR 0800 346 7314', 'RESOURCES', and 'SUPPORT'. Below this is a lighter navigation bar with the Zoom logo, 'SOLUTIONS', 'PLANS & PRICING', 'CONTACT SALES', 'JOIN A MEETING', 'HOST A MEETING', 'SIGN IN', and a 'SIGN UP, IT'S FREE' button. The main heading is 'Join a Meeting'. The form includes a 'Your Name' input field, a 'Captcha Code' input field, and a captcha image showing the text 'w7gby' with a refresh icon. A blue 'Join' button is at the bottom of the form. The footer contains links for 'About', 'Download', 'Sales', 'Support', and 'Language', along with a chat icon.

zoom SOLUTIONS PLANS & PRICING CONTACT SALES JOIN A MEETING HOST A MEETING SIGN IN SIGN UP, IT'S FREE

Join a Meeting

Your Name

Your Name

Captcha Code

Enter captcha code

w7gby

Join

About
Zoom Blog
Customers
Our Team
Careers
Integrations

Download
Meetings Client
Zoom Rooms Client
Browser Extension
Outlook Plug-in
Lync Plug-in

Sales
+44 (0) 203 896 1000
346 7314
Contact Sales
Plans & Pricing
Request a Demo

Support
Test Zoom
Account
Support Center
Live Training
Feedback

Language
English

Currency



Zoom - Instructions for the live remote session

During the session

- When you enter the broadcasting, immediately check that **you are on mute** whilst the teacher is speaking. This is very important for sound quality!

How to ask questions during the session

- Use a dedicated Slack channel to ask questions, tutors will be answering them as they pop up. You can use it for 1:1 questions as well (e.g. screen share, call) during the session. If one question is trending the tutors might leave it for the teacher to answer. The tutor's support on the Slack channel is available only during the live remote session.





Slack

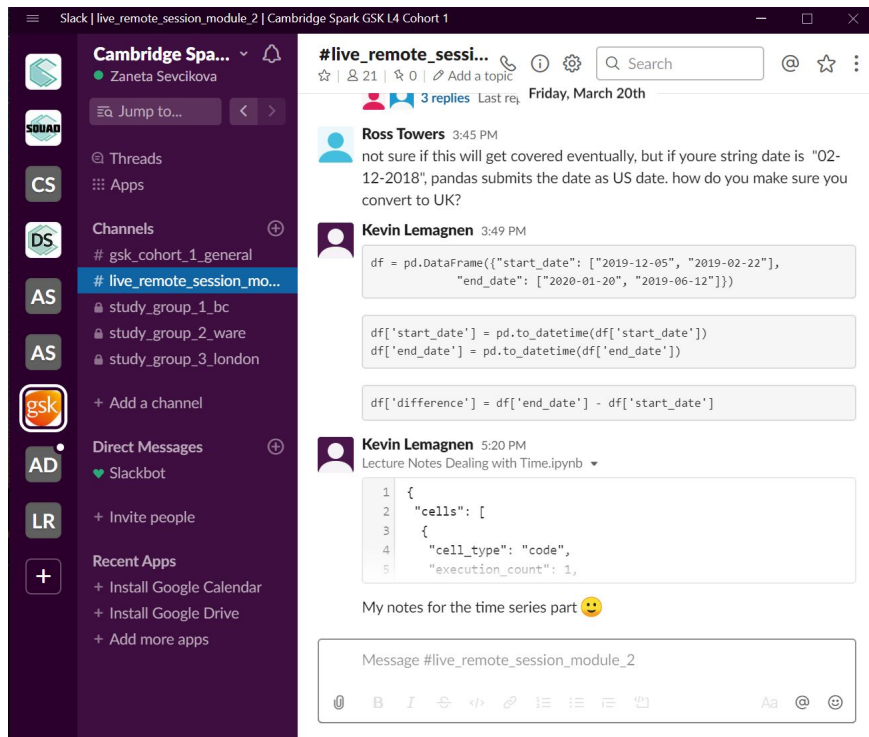
Slack



Slack is a collaboration hub where the right people and the right information come together, helping everyone get work done.

We will be using Slack for

- study groups
- Q&A from students during live remote sessions
- Building a community of CSpark Learners



Slack - Setup

- Download Slack here: <https://slack.com/intl/en-gb/downloads/> and install it on your machine
- In the meantime, you should have received an invitation via email to join a Slack workspace
- Click the green 'Join now' button in the invitation email
- You will then be asked to create your account

noreply has invited you to join a Slack workspace ➤ Inbox x

Slack <feedback@slack.com>
to me ▾

16:24 (1 minute ago) ☆



Join Live Remote ADS Sessions 2020 on Slack

noreply (zaneta@cambridgespark.com) has invited you to join the Slack workspace **Live Remote ADS Sessions 2020**. Join now to start collaborating!

Join Now

Join the Slack workspace Live Remote ADS Sessions 2020

Full name

Your name will be displayed with messages you send.

Password (required)

Can we send you email with Slack tips, news, and offers?

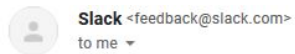
- ☐ Sure!
- ☐ No thanks

Create Account



Slack - Setup

- Once you have created your account, you will immediately receive a 'Welcome to Slack' email with your workspace details



16:33 (2 minutes ago) ☆ ↕



Welcome to Slack!

You've joined the new Slack workspace **Live Remote ADS Sessions 2020**. Here are your account details:



Live Remote ADS Sessions 2020

URL: liveremoteads-mky9339.slack.com

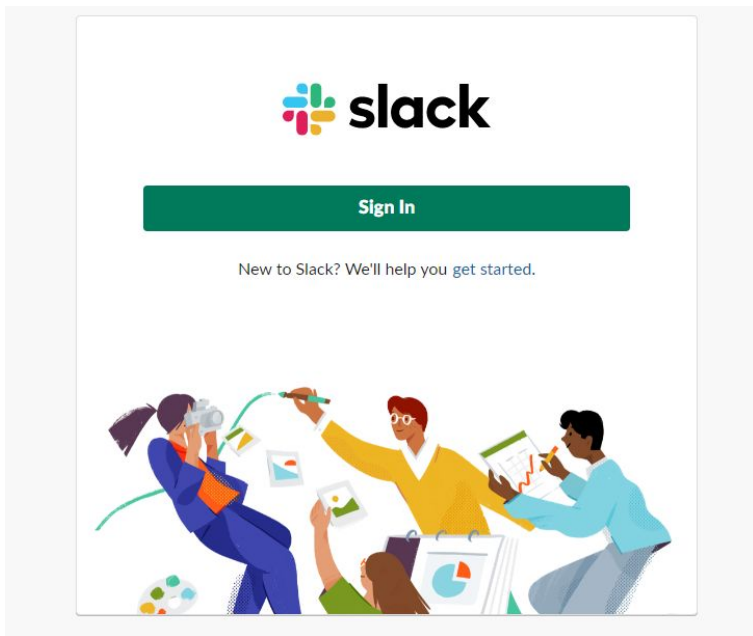
Email: zaneta.sevcikova@gmail.com

[Sign In](#)



Slack - Setup

- Click on the Slack icon on your machine, you will be asked to 'Sing in'
- Enter your workspace's Slack URL. You can find it in your 'Welcome to Slack' email or you can access it via the 'Find your workspace' button.



Sign in to your workspace

Enter your workspace's Slack URL.

.slack.com

Continue →

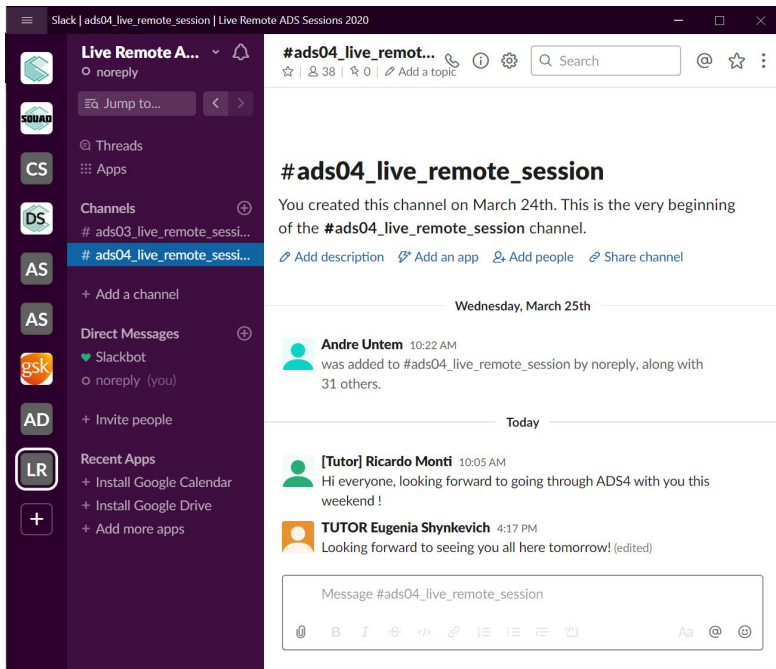
Don't know your workspace URL? [Find your workspace](#)

Need to get your group started on Slack? [Create a new workspace](#)



Slack - Setup

- The Slack application will open on your machine. From now on you should easily open Slack on your machine anytime by clicking the Slack icon.



A horizontal teal banner with a folded corner effect on the right side. The text "EDUKATE.AI" is centered in the banner.

EDUKATE.AI

EDUKATE.AI is our proprietary tool for hands-on practical coding projects where learners can apply their new skills and receive immediate and personalised feedback.

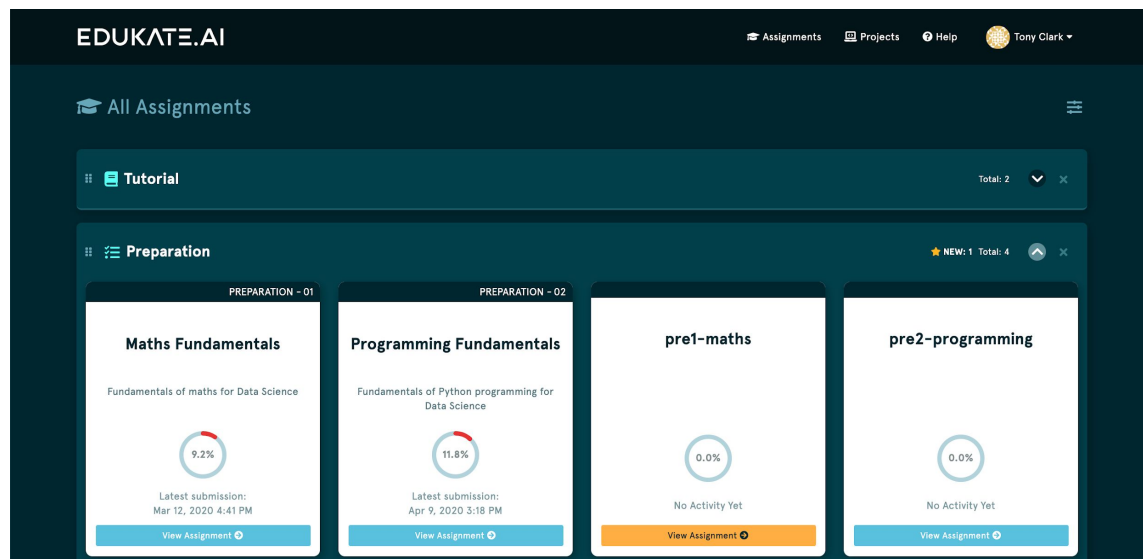
It is browser based so learners will need to access it via their web browser (Chrome is recommended).

Learners need access to:

<https://app.edukate.ai/>

Please ensure there are no firewall restrictions on that URL.

Your user account will be created by Cambridge Spark separately.






Aptem

Aptem is a complete end-to-end apprenticeship and vocational training delivery platform. It is where learners can access all information relating to their programme and learning and is also where they will build their portfolios and track the number of hours they are learning (off the job training)

Learners need access to:


<https://cambridgespark.aptem.co.uk/Users/Account/LogOn>

Need help signing in? ☎ 020 7870 1000



Aptem is a complete solution to enhance every aspect of apprenticeship and vocational training delivery.

[Learn More →](#)



MyWorkSearch is an award-winning platform for employability and outplacement programmes.

[Learn More →](#)

Sign in

User name or email

[Next](#)

By signing in to this service you agree to our [terms & conditions](#) and [privacy policy](#)

Support





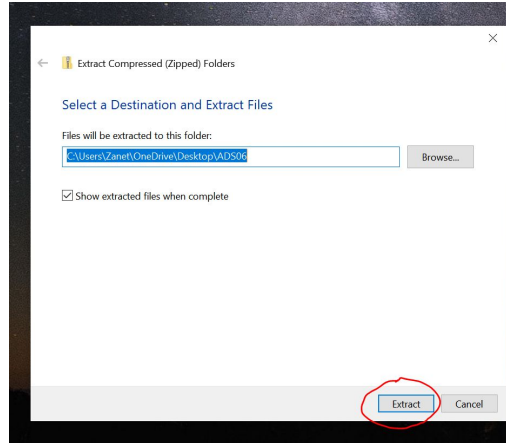
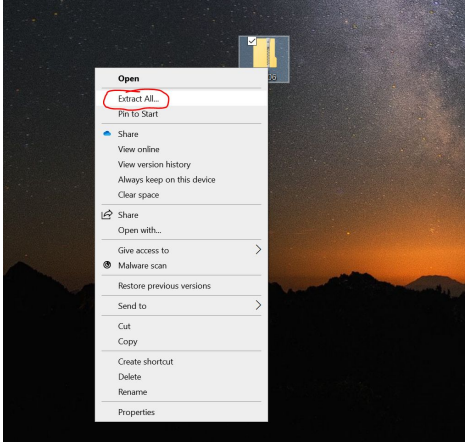
Archive Files

Archive Files

An **archive file** is a file that is composed of one or more computer files along with metadata. Archive files are used to collect multiple data files together into a single file for easier portability and storage, or simply to compress files to use less storage space. All our study materials for L4 are released in archive files.

How to open an archive file (windows):

1. Download the zip file to your machine
2. Right click the file, select 'Extract All' and then click 'Extract'
3. A new folder will be automatically created in the location of your file. You can now open the content in the folder.





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