

INSTALLATION GUIDE VISUAL STUDIO CODE ON CHROMEBOOKS USING LINUX

Technology/Software used in



Description

New for the 24-25 school year, schools can use Linux on Chromebooks to install Visual Studio Code for Computer Science Principles and Computer Science A. Provided are instructions on how to install on a single machine with Admin Rights to make changes. At this time, we do not have instructions on mass installation or details on how to deploy from Google Admin. Please be mindful of your own security systems, policies and procedures if you choose to use Visual Studio Code for Chromebook, rather than a Windows or Mac Environment.

Requirements

- A Chromebook that has not reached End of Life updates
 - [Auto Update Policy](#)
 - [Check your Chromebook's update schedule](#)
- At least 12GB available disk storage
- Chrome OS 64-bit

Install Linux and Visual Studio Code

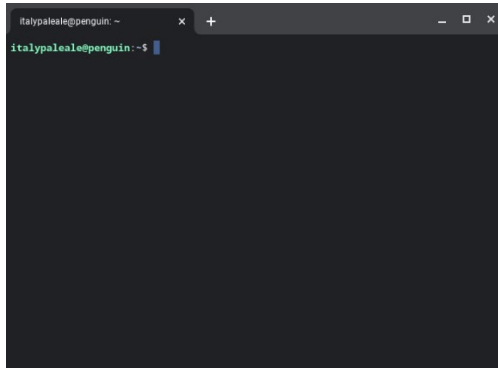
1. When booting the Chromebook (for the first time or if asked to update), update the Chromebook to the latest version. This may require you to restart the Chromebook.

Note: Google's Chromebook policy is to automatically check for updates.

2. Open Settings, search for "linux". If "Linux development environment" is installed, Select **Remove**.



3. In Settings, search for "chrome os". Select **Check for Updates** and update. This will likely cause the Chromebook to restart.
4. In Settings, search again for "linux" and **Set up** and **Install** the Linux development environment. The minimum size for the environment is 10GB.
5. When Linux successfully installs, a terminal window will appear. Note: If the terminal shows a list of options, select **penguin**.



6. Recommended: Right-click on the terminal icon in the shelf and **Pin** to Shelf.
7. In the terminal, enter the following commands to update Linux packages:


```
sudo apt update
sudo apt -y install gnome-keyring
```
8. Determine the type of CPU on your Chromebook:


```
dpkg --print-architecture
```
9. On the [VS Code Downloads](#) page, select the installation file for your architecture.
 - For amd64, select Debian Ubuntu **.deb x64**.
 - For arm64, select select Debian Ubuntu **.deb Arm64**.



After selecting the installation file, the download will automatically begin and the browser will automatically navigate to a new page “Getting Started with Visual Studio Code.”

10. Open your *Downloads* folder and double click the *.deb* file and **Install** VS Code. When complete, the VS Code icon will appear in the Shelf and Launcher.
11. Recommended: Right-click on the VS Code icon in the shelf and **Pin** to shelf.

For more details, please visit [Learning with VS Code on Chromebooks](#).

Install JDK and the Extension Pack for Java

12. In a Linux/Penguin terminal, enter the following command.

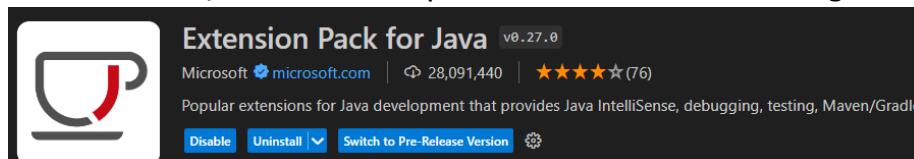
```
sudo apt -y install default-jdk
```

13. Start VS Code and select the **Extension** option in the left menu.



14. Search for “Extension Pack for Java” by Microsoft and select **Install**. Be sure to Install the JDK for the extension.

Once installed, the extension panel should show something similar to:



15. Follow the onscreen instructions if you are asked to restart VS Code.

Test Java

16. In VS Code, open a new file **File > New Text File** and copy and paste the following program.

```
class Tester

static void main(String[] args)
{
    System.out.println("HELLO WORLD!");
}
```

17. Save the program as *Tester.java* in the default folder.

18. Right-click in the Editor window and select **Run Java**. You should see output that includes the text "HELLO WORLD" in the Terminal.

```
ckinnard@penguin:~$ /usr/bin/env /usr/lib/jvm/java-17-openjdk-amd64/bin/java -
XX:+ShowCodeDetailsInExceptionMessages -cp
/home/ckinnard/.config/Code/User/workspaceStorage/22abbc0c8a5958ca20cfe538775ce19
0/redhat.java/jdt_ws/jdt.ls-java-project/bin Tester
```

```
HELLO WORLD
```



Throughout the School Year

Python packages `mss`, `pillow`, and `godirect` must be installed on a per-user basis; students will install these themselves.

When students download files to use in VS Code, they must move them to *Linux Files*.

If students are in VS Code and are prompted to upgrade the version of JDK, advise them to answer "yes."

