

**{ POWER.CODERS }**

# Setup

# WHAT DO WE NEED TO START?

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- > Browser
- > Editor
- > Windows only: pimp your terminal

# SETUP YOUR LAPTOP AND INSTALL SOFTWARE



# BROWSER

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- > Chrome: [Installation link](#)
- > Firefox: [Installation link](#)

# EDITOR



Could be any text editor, but developers prefer one with syntax highlighting.

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**We will use Visual Studio Code.**

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Recommended extensions



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Recommended extensions

1. Live Server
2. Prettier
3. vscode-faker

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**We will use Visual Studio Code.**

[Installation link](#)

Recommended extensions

1. Live Server
2. Prettier
3. vscode-faker

Try out different themes or other extensions.

# PIMP YOUR TERMINAL

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**Windows user only**

Mac and Linux users, [click here](#).

# WINDOWS 10

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For this setup, you need to be on **Windows 10**, with all the latest updates installed.

To check your Windows version:

- > Press `Windows` + `R`
- > Press `winver`
- > Press `Enter`

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To check your Windows version:

- > Press `Windows` + `R`
- > Press `winver`
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If the first words of this window are Windows 10 you're good to go! If not, please upgrade to Windows 10.

# LATEST UPDATES

---

Open Windows update:

- > Press `Windows + R`
- > Type `ms-settings:windowsupdate`
- > Press `Enter`
- > Click on `Check updates`

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If you have updates available please install them and repeat the process until it says that you are up to date.

# MINIMUM VERSION

---

For some of the tools we use we need the 1903 version or above. Let's check which version you have:

- > Press Windows + R
- > Type winver
- > Press Enter



# MINIMUM VERSION

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For some of the tools we use we need the 1903 version or above. Let's check which version you have:

- > Press Windows + R
- > Type winver
- > Press Enter

If it says at least 1903, you are good to go!

# VIRTUALIZATION

---

Let's check if the virtualization options are enabled in the BIOS of your computer:

- > Press `Windows` + `R`
- > Type `taskmgr`
- > Press `Enter`
- > Click on the `Performance` tab
- > Click on `CPU`

# VIRTUALIZATION

Let's check if the virtualization options are enabled in the BIOS of your computer:

- > Press `Windows` + `R`
- > Type `taskmgr`
- > Press `Enter`
- > Click on the `Performance` tab
- > Click on `CPU`

If it says `virtualization: enabled` in the right column, you are good to go! If it is disabled or missing, please reach out to the teaching assistant [Séb](#).

# WINDOWS SUBSYSTEM FOR LINUX

WSL is the development environment we are using to run Ubuntu. You can learn more about WSL [here](#).

- > Press `Windows + R`
- > Type `powershell`
- > Press `Ctrl + Shift + Enter`

You use the `Ctrl + Shift + Enter` key stroke to execute Windows PowerShell with administrator privileges.

# WINDOWS SUBSYSTEM FOR LINUX

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- > Type `powershell`
- > Press `Ctrl + Shift + Enter`

You use the `Ctrl + Shift + Enter` key stroke to execute Windows PowerShell with administrator privileges.

You may have to accept the UAC confirmation about the privilege elevation.

# INSTALL WSL 1

---

A blue terminal window will appear:

- > Copy the following commands
- > Paste them into the PowerShell window by **right-clicking** into it  
(Ctrl + V does not work here!)
- > Run them by pressing `Enter`

# INSTALL WSL 1

A blue terminal window will appear:

- > Copy the following commands
- > Paste them into the PowerShell window by **right-clicking** into it (Ctrl + V does not work here!)
- > Run them by pressing `Enter`

```
Enable-WindowsOptionalFeature -Online -FeatureName Microsoft-Windows-Subsystem-Linux
```

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```
Enable-WindowsOptionalFeature -Online -FeatureName Microsoft-Windows-Subsystem-Linux
```

```
dism.exe /online /enable-feature /featurename:Microsoft-Windows-Subsystem-Linux /all /no
```



# INSTALL WSL 1

A blue terminal window will appear:

- > Copy the following commands
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```
Enable-WindowsOptionalFeature -Online -FeatureName Microsoft-Windows-Subsystem-Linux
```

```
dism.exe /online /enable-feature /featurename:Microsoft-Windows-Subsystem-Linux /all /no
```

```
dism.exe /online /enable-feature /featurename:VirtualMachinePlatform /all /norestart
```

# UPGRADE TO WSL 2

---

First **restart your computer**, then we need to **download the WSL2 installer** and install it.

- > Click **Next**
- > Click **Finish**

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- > Click `Next`
- > Click `Finish`

If you encounter the error

`This update only applies to machines with the Windows Subsystem for Linux`, right click on the program and select `uninstall`; you shall be able to install it normally this time.

# MAKE WSL 2 THE DEFAULT

---

- > Press `Windows` + `R`
- > Type `cmd`
- > Press `Enter`

In the window that appears type:

```
wsl --set-default-version 2
```

# MAKE WSL 2 THE DEFAULT

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- > Press `Windows` + `R`
- > Type `cmd`
- > Press `Enter`

In the window that appears type:

```
wsl --set-default-version 2
```

You can close this Command Prompt terminal; we are ready to install Ubuntu.

# INSTALL UBUNTU

---

- > Click on `Start`
- > Type `Microsoft Store`
- > Click on the Microsoft Windows Store in the list
- > Search for `Ubuntu` in the search bar
- > Select version without any number, just plain "Ubuntu"
- > Click on `Install`

Don't install **Ubuntu 18.04 LTS** nor **Ubuntu 20.04!**

# LAUNCH UBUNTU



Once the installation is done, the Install button becomes a **Launch** button. Click on it.

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At first launch, you will be asked some information: username and password.



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At first launch, you will be asked some information: username and password.

When typing the password, nothing will not appear on the screen — there will be no familiar typing indicator even though your keystrokes are being registered.

# CONNECTING VS CODE TO UBUNTU

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When you launch VS Code after installing Ubuntu, you should have a frame at the bottom-right corner of VS Code saying it detects WSL. Accept the installation of the WSL extension for VS Code.

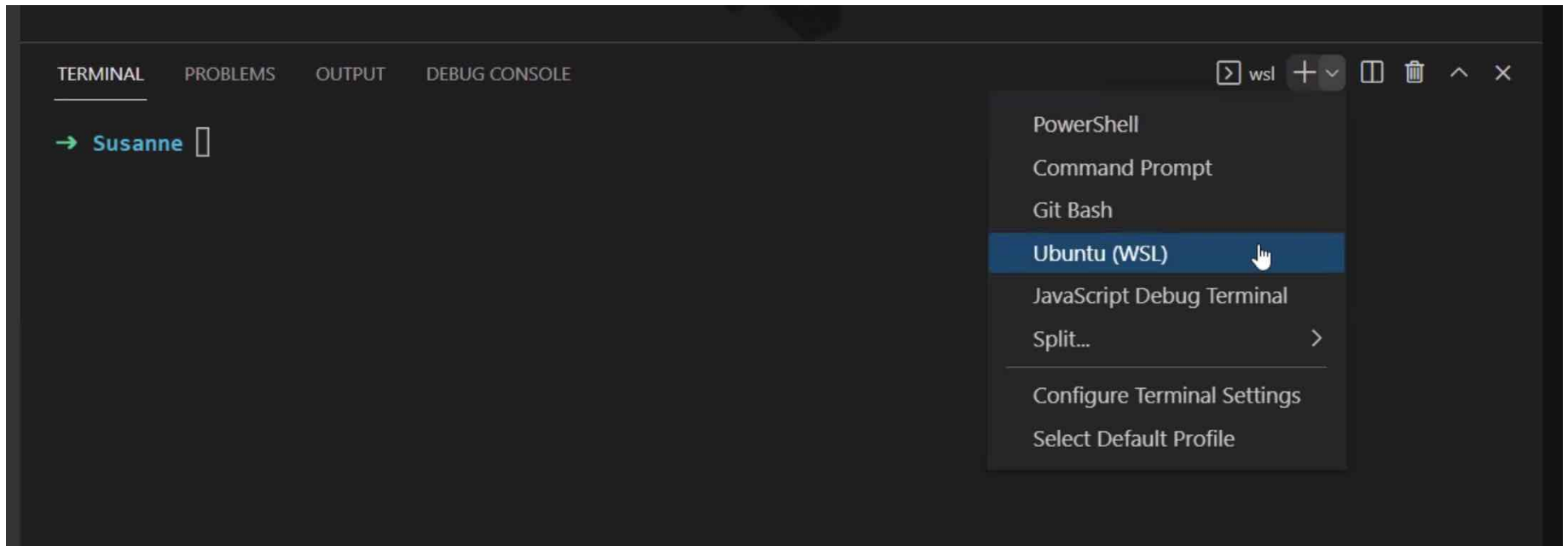
In case you don't get that window, this is the extension: [Remote - WSL](#)

# INSTALL OH-MY-ZSH

**For all users: Windows, Mac and Linux.**

During the bootcamp we will use the shell named `zsh`:

➤ Open the Ubuntu terminal in VS Code



# INSTALL OH-MY-ZSH

---

In the window that appears type the following commands one by one. Press Enter to run them:

```
> sudo apt update
> sudo apt upgrade
> sudo apt install -y zsh curl vim imagemagick jq
>
```

```
sh -c "$(curl -fsSL
https://raw.githubusercontent.com/robbyrussell/oh-
my-zsh/master/tools/install.sh)"
```

# OTHER TOOLS WE USE

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- > Google classroom
- > GSuite: email, calendar, drive
- > Slack
- > Zoom

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- Google classroom
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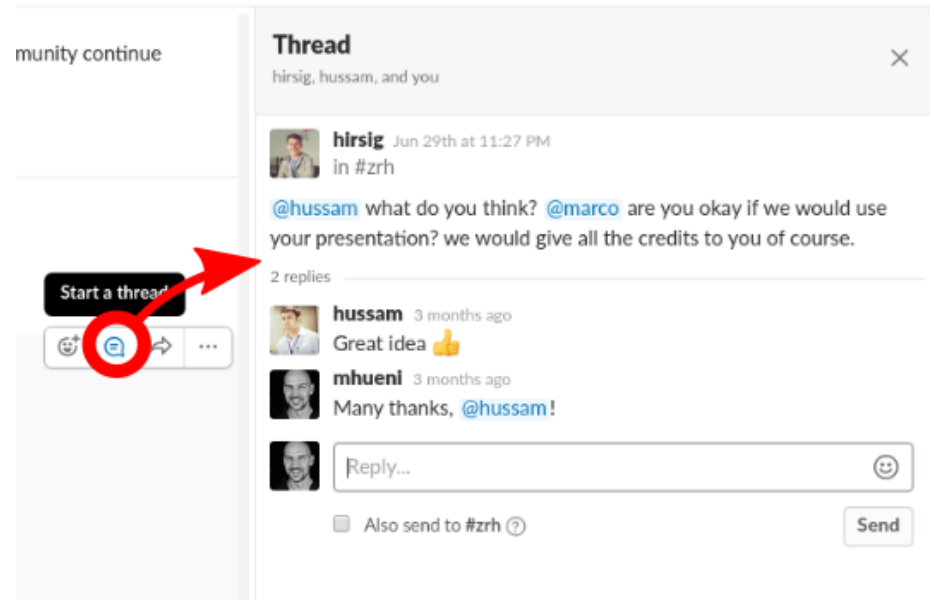
Nothing new, but make sure it is available on the laptop you use during the bootcamp.

# POWERCODERS COURSE CHANNELS

- > `#ch-2022-1-participants` - The channel for everyone involved in this class
  - > Announcements from teachers, coaches, mentors
  - > Questions from you
  - > Success stories, achievements, news
- > `#zrh, #ch-resources`
  - > Interesting articles, job offers, courses
- > `#ch-random`
  - > Everything else
- > `#100hrs`

# RULES FOR SLACK

- > Use the appropriate channel  
Not sure? `#ch-random`
- > Use `@[username]` in a message / in a channel to notify them
- > Using `@channel` in a message notifies everyone in the channel
- > Use threads





# GUIDELINES FOR VIDEO CALLS

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- Be ready 10 minutes before the start and check if microphone and camera are working

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- Use your headphones and try to find a quiet spot if possible
- Be ready 10 minutes before the start and check if microphone and camera are working
- Mute your microphone when not speaking

# GUIDELINES FOR VIDEO CALLS

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- Have your camera on, so everybody can see each other
- Use your headphones and try to find a quiet spot if possible
- Be ready 10 minutes before the start and check if microphone and camera are working
- Mute your microphone when not speaking
- Raise your hand when you want to speak

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- Have your camera on, so everybody can see each other
- Use your headphones and try to find a quiet spot if possible
- Be ready 10 minutes before the start and check if microphone and camera are working
- Mute your microphone when not speaking
- Raise your hand when you want to speak
- Use thumbs up & down for simple yes or no questions

# GUIDELINES FOR VIDEO CALLS

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- Have your camera on, so everybody can see each other
- Use your headphones and try to find a quiet spot if possible
- Be ready 10 minutes before the start and check if microphone and camera are working
- Mute your microphone when not speaking
- Raise your hand when you want to speak
- Use thumbs up & down for simple yes or no questions
- Leave food for the breaks; chewing sounds and visuals are not appreciated



# online etiquette



Mute  
yourself



Press  
spacebar to  
unmute



Want to  
speak



Yes /  
agree



No /  
disagree

# How TO USE ZOOM

A short, thick red horizontal line positioned under the first few letters of the title.

# How TO USE ZOOM

---

> Chats

# HOW TO USE ZOOM

---

> Chats

> Reactions

# HOW TO USE ZOOM

---

- > Chats
- > Reactions
- > Non-verbal feedback

# SOME USEFUL LINKS



# USEFUL LINKS FOR REMOTE WORK

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- > Music for concentration
- > How to organise your workspace
- > How to make remote working work for you

# USEFUL SLACK CHANNELS/COMMUNITIES

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- > FEDs on Slack
- > WebZuerich



# USEFUL WEBSITES

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- > How to learn and get better in programming
- > CSS Tricks
- > W3schools
- > MDN web docs
- > Smashing Magazine
- > A list apart

# USEFUL YOUTUBE CHANNELS

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- > Layout Land
- > Mozilla Developer
- > Codecademy
- > Freecodecamp