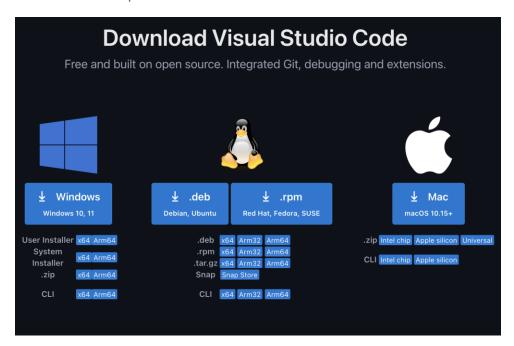
# How to get started in Ruby on Rails with an IDE and Docker

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# 1. IDE

- It is suggested that you use VS Code, as it allows you to run a terminal in your IDE, making one less thing needed up on your screen.
- Go to: <a href="https://code.visualstudio.com/download">https://code.visualstudio.com/download</a>



- Download the appropriate version for your system.
- Once downloaded, make sure to download these extensions.
  - SQLite Viewer



### Docker

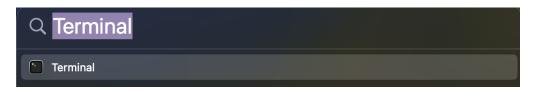
Note: this does not replace the desktop version!!



- Here is a guide to help you get familiar with VSCode
  - o <a href="https://code.visualstudio.com/docs/introvideos/basics">https://code.visualstudio.com/docs/introvideos/basics</a>

## 2. Command Line Tools

- In Ruby on Rails projects, you will need to use the command line often. For example, you will be starting your server using command line, using metaprogramming to create entire classes using scaffolding and more!
- Windows OS
  - It is recommended that you use a tool such as PowerShell on Windows OS, as the default one tends to be problematic.
  - o https://learn.microsoft.com/en-us/powershell/?view=powershell-7.4
    - Follow this link to get started!
- Mac OS
  - If you are on a mac, you have it a bit easier as the Terminal is already built in and easy to use!
    - Use Command + Space bar to bring up your search function
    - In the search bar, type Terminal



Click on it, and you have your command line tool!

```
chase — -zsh — 80x24

Last login: Mon Sep 23 20:00:30 on ttys000

chase@Chases-MacBook-Pro ~ %
```

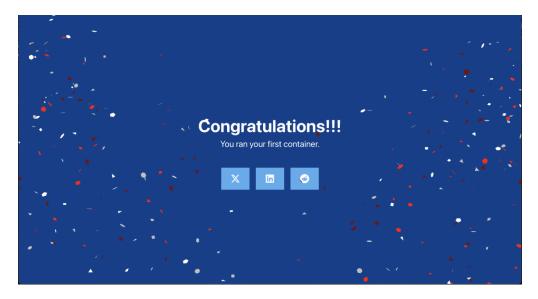
- Here is what the Terminal looks like!
  - Visit this website to learn about common commands used!
    - https://gist.github.com/bradtraversy/cc180de0edee05075a6139e42d
       5f28ce

# Docker

- Follow this link and download the Docker Desktop application
  - o <a href="https://docs.docker.com/get-started/get-docker/">https://docs.docker.com/get-started/get-docker/</a>
- Once downloaded, to familiarize yourself with Docker follow Docker's guide of getting started with Docker
  - o To test that docker is correctly installed, please test using
    - docker run -d -p 8080:80 docker/welcome-to-docker
      - This will download and create a container.
      - Your command line tool will look something like this

```
chase@Chases-MacBook-Pro ~ % docker run -d -p 8080:80 docker/welcome-to-docker
Jnable to find image 'docker/welcome-to-docker:latest' locally
latest: Pulling from docker/welcome-to-docker
579b34f0a95b: Pull complete
d11a451e6399: Pull complete
54b19e12c655: Pull complete
lc2214f9937c: Pull complete
lfb28e078240: Pull complete
94be7e780731: Pull complete
94be7e780731: Pull complete
39578ce72c35: Pull complete
39578ce72c35: Pull complete
Digest: sha256:eedaff45e3c78538087bdd9dc7afafac7e110061bbdd836af4104b10f10ab693
Status: Downloaded newer image for docker/welcome-to-docker:latest
d1606e0977bd80ee5cf3691df0dd5da9c6ad9a7e24129751fc9194f76a04c467
```

• This should bring up the following screen.



- Now that you have ran your first container, familiarize yourself with docker by following the introduction on Docker's website, linked below.
- o <u>https://docs.docker.com/get-started/introduction/</u>
- Now that you understand how docker works, it is time to create your own image to create your portfolio app in.
  - o First, create a directory in your computer for your docker files.
    - Mine is named docker\_build, so I know where all my docker stuff should be.



- Second, you will visit the following link, download the resources and move them into the directory you just made.
  - https://drive.google.com/drive/folders/1\_Mg-8M8zw39ZyOa3DLpAn4AR0uaP\_T8x
- Next, using your command line tool go into the directory you made with the new files included.

```
[chase@Chases-MacBook-Pro ~ % cd Documents
[chase@Chases-MacBook-Pro Documents % cd docker_build
| chase@Chases-MacBook-Pro docker_build % |
```

- While inside this directory, try running this command with your information added
  - docker build –t [dockerUsername]/[image\_name].
  - For example, here is how mine looked
    - docker build -t [cblanco27]/[cs3710].
  - If you are running into issues, please make sure everything is lowercase!
  - This command will build the image using the files provided and put into your directory.
- Now it is time to run the newly created image!
  - Try the command
  - docker run –it –p 3000:3000 –v \$(pwd):/workspace
     [dockerUsername]/[image\_name]
    - For example, here is what mine looked like: docker run –it –p 3000:3000 –v \$(pwd):/workspace [cblanco27]/[cs3710]
- Congratulations, you just made a container! You will want to use this container continually, so here is how you open the same container every time!
  - Using the following command will show you what containers you currently have in docker.
    - docker ps –a



- Here it shows the container ID as well as the name of all containers I currently have.
- To open a container all you need to do is the following
  - Copy your desired container ID
  - Run the command: docker start [containerID]

- o For example, mine would be:
  - docker start 74d927ab4017



- If you are ever unsure of what container you have open, use the command 'docker ps' to check what is currently running!
- You should now have the tools to start working on your Ruby on Rails project using Docker!!