**Docker File, Docker Images and Docker Containers.**

A Dockerfile is a file that you create which in turn produces a Docker image when you build it.

* A Docker image can be created by taking 2 actions
  + The first action is to create a thing called a Dockerfile
  + The second action is to run some type of build command that uses the Dockerfile
* A Docker image is a file or file-like thing, since it gets “built”

A Dockerfile is a text file that Docker reads in from top to bottom. It contains a bunch of instructions which informs Docker HOW the Docker image should get built.

You can relate it to cooking. In cooking you have recipes. A recipe lets you know all of the steps you must take in order to produce whatever you’re trying to cook.

The act of cooking is building the recipe.

A Dockerfile is a recipe (or blueprint if that helps) for building Docker images, and the act of running a separate build command produces the Docker image from that recipe.

**The act of running a Docker image creates a Docker container**

In the world of object oriented programming, you often deal with classes. You can think of a Docker image as a class, where as a Docker container is an instance of that class.

* A Dockerfile is a recipe for creating Docker images
* A Docker image gets built by running a Docker command (which uses that Dockerfile)
* A Docker container is a running instance of a Docker image