

Dockerfile

FROM <existing image>	Specifies an existing image to build on top of
WORKDIR <path>	Set the working directory <i>inside the container</i> for all subsequent commands in the Dockerfile
COPY <source> <destination>	Takes files or folders from your build context on your machine and places them inside the image's filesystem
RUN <command>	Prepare the environment once, so every container starts ready to go
CMD ["exec", "arg 1", "arg 2"]	Define what the container actually does when launched

Container and Image Management

docker ps	Lists currently running containers. -n Show last n created containers -a List all containers -n Last n containers -q Only container IDs
docker start <container_name_or_id>	Restart a stopped container
docker stop <container_name_or_id>	Stop a container
docker rm <container_name_or_id>	Remove a container
docker images	List all images
docker rmi <image_id>	Remove an image
docker pull <image>	Download an image from a registry

docker build

-t/--tag	Give your image a name
-f/--file	Path to a specific Dockerfile. Need when your Dockerfile is not named "Dockerfile" or not in the current directory.
--build d -arg	Passes build-time variables (used with ARG in Dockerfile)
--no-cache	Forces all layers to rebuild. Good when debugging inconsistent builds
--pull	Always pulls the latest version of the base image
--platform	Specifies architecture (helpful for multi-arch builds, Apple Silicon, etc.)
-q/--quiet	Outputs only the final image ID (surpresses verbose logs)

Turns a directory (with a Dockerfile) into an image

docker run

-d/--detach	Runs the container in the background
-p/--publish	Maps a container port to a host port
--name	Gives the container a specific name
-v/--volume	Real-time sharing of given directory between your computer and the container
--rm	Automatically removes the container when it stops
-it	Used for interactive shells
-e	Pass given variables into into the container

Starts a container from an image



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