Docker Commands Cheat Sheet

attach, build, commit, output, run, tarball etc.

Tells OS you're using Docker

container_name etc.

```
docker → COMMAND / MANAGEMENT COMMAND → OPTIONS → OBJECT REF → SUB-COMMAND → ARG
```
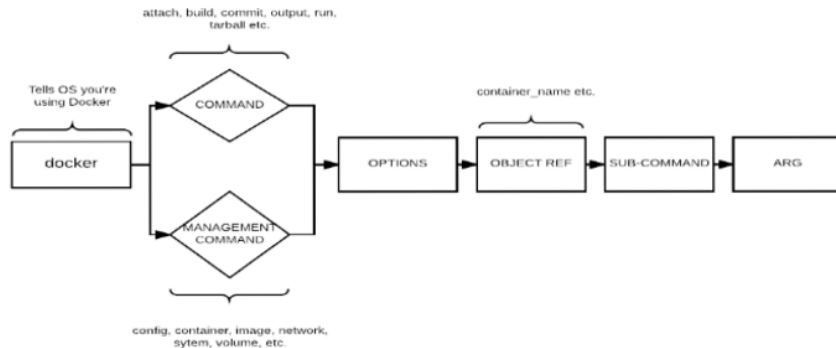
config, container, image, network, sytem, volume, etc.

Run

To create and run a container:
```
docker run --name container_name docker_image
```

Other useful flags:
- `-d` — Detach container on start
- `-rm` — Remove container once it stops
- `-p` — Publish host IP and host port to the container port
- `-v` — Define and share volume across containers

`--read-only` — Sets container to be read only

Build

To pull an image from the Registry, define 'image_name':
```
docker pull image_name:tag
```

To build an image from your Dockerfile:
```
docker build -t image_name:tag
```

If you **don't** want your container to autostart, use:
```
docker create--name container_name image_name:tag
```

Start and stop container commands:
```
docker start container_name

docker stop container_name
```

Orchestration

To create and run a container:
```
docker run --name container_name docker_image
```

Other useful flags to attach to the '`docker run`' command are:
- `-d` — Detach container on start
- `-rm` — Remove container once it stops
- `-p` — Publish host IP and host port to the container port
- `-v` — Define and share storage volume across containers
- `--read-only` — Sets container to be read only

Clean Up

To clean—or prune—unused (dangling) images:
```
docker image prune
```

To remove all images which are not in use by containers, add `-a`:
```
docker image prune -a
```

To prune your entire system:
```
docker system prune
```

To leave a swarm:
```
docker swarm leave
```

To remove a swarm: *(Deletes all volume data and database info also!)*
```
docker stack rm stack_name
```

To **kill all** running containers:
```
docker kill $(docker ps -q)
```

Services

To view a list of all the services running in a swarm:
```
docker service ls
```

To see all running services:
```
docker stack services stack_name
```

To see all service logs:
```
docker service logs stack_name_service_name
```

To scale services quickly across qualified nodes:
```
docker service scale stack_name_service_name=replicas
```