

Docker commands Cheat Sheet

Stored containers & images	
List running containers	<code>docker ps</code>
List all containers	<code>docker ps -a</code>
List images	<code>docker images [--tree]</code>
Remove container	<code>docker rm #container</code>
Remove image	<code>docker rmi #image</code>
Remove all containers	<code>docker rm `docker ps --no-trunc -aq`</code>
Remove all images	<code>docker rmi `docker images -q`</code>
#container - name or id #image - name	

Network	
Run with mapped ports	<code>docker run -d -p local_port:container_port #image #command</code>
Show corresponding local port	<code>docker port #container container_port</code>

Files	
Map local directory	<code>docker run -it --name #container -v /src_path:/docker_path #image #command</code>
Copy from/to docker	<code>docker cp #container src_path:dest_path</code>

Updates	
Update image	<code>docker commit -m 'desc' -a 'author' #container #image:new_tag</code>
Add tag to image	<code>docker tag #container #image:tag</code>
Rename container	<code>docker rename old_name new_name</code>
Update container configuration	<code>docker update [options] #container</code>
Read about configuration options in help	

Global info	
System-wide info	<code>docker info</code>
Version info	<code>docker version</code>

Container basics	
Run in a new named container	<code>docker run -it --name cont_name #image #command</code>
Build a image	<code>docker build .</code>
Start container	<code>docker start -i #container</code>
Stop container	<code>docker stop #container</code>
Restart container	<code>docker restart #container</code>
Kill container	<code>docker kill #container</code>
Run a command	<code>docker exec -it #container #command</code>
#container - name or id #image - name #command - e.g /bin/bash -c 'Hello World' or script.py	

Attach/detach	
Attach #1	<code>docker attach #container</code>
Attach #2	<code>docker start -a</code>
Attach #3	<code>docker exec -it #container bash</code>
Detach	CTRL-P + CTRL+Q
Detach shortcut works in interactive mode (run -i) Run container in detached mode: run -itd	

Logs & info	
Read container stdout	<code>docker logs [-f] #container</code>
Show running processes	<code>docker top #container</code>
Show container configuration	<code>docker inspect #container</code>
Show resources usage	<code>docker stats #container</code>
Show changes in filesystem	<code>docker diff #container</code>
Show image history	<code>docker history #image</code>
Show container events	<code>docker events</code>

Import & Export	
Export container to tar	<code>docker export -o file.tar #container</code>
Import container	<code>docker import file.tar</code>
Export image to tar	<code>docker save -o file.tar #image[:tag]</code>
Import image	<code>docker load -i file.tar</code>

Help	
Command help	<code>docker #command --help</code>
#command - name e.g attach, ps	