Übung: Funktionaler Überblick

Docker Container holen und starten

In [1]:

```
! docker pull hello-world
```

```
Using default tag: latest
latest: Pulling from library/hello-world
Digest: sha256:5f179596a7335398b805f036f7e8561b6f0e32cd30a32f5e19d17a3cda6cc
33d
Status: Image is up to date for hello-world:latest
```

In [2]:

```
! docker run hello-world
```

```
Hello from Docker!
This message shows that your installation appears to be working correctly.

To generate this message, Docker took the following steps:
 1. The Docker client contacted the Docker daemon.
 2. The Docker daemon pulled the "hello-world" image from the Docker Hub.
    (amd64)
 3. The Docker daemon created a new container from that image which runs the
    executable that produces the output you are currently reading.
 4. The Docker daemon streamed that output to the Docker client, which sent
it
    to your terminal.

To try something more ambitious, you can run an Ubuntu container with:
 $ docker run -it ubuntu bash

Share images, automate workflows, and more with a free Docker ID:
 https://hub.docker.com/ (https://hub.docker.com/)

For more examples and ideas, visit:
 https://docs.docker.com/get-started/ (https://docs.docker.com/get-started/)
```

Docker Container starten

In [3]:

```
! docker run hairyhenderson/figlet hello-world
```

```
Unable to find image 'hairyhenderson/figlet:latest' locally
latest: Pulling from hairyhenderson/figlet

201b3a05: Pulling fs layer
Digest: sha256:e930374284180d4219e2143fa1cc6303ca91f177cb257343bfc080d79ff7a
e80
Status: Downloaded newer image for hairyhenderson/figlet:latest
 _          _ _                                 _     _
| |__   ___| | | ___      __      _____  _ __| | __| |
| '_ \ / _ \ | |/ _ \ ____\ \ /\ / / _ \| '__| |/ _` |
| | | |  __/ | | (_) |_____\ V  V / (_) | |  | | (_| |
|_| |_|\___|_|_|\___/       \_/\_/ \___/|_|  |_|\__,_|
```

Docker nochmals starten

In [4]:

```
! docker run hairyhenderson/figlet hallo welt
```

```
 _          _ _                      _ _
| |__   __ _| | | ___   __      _____| | |_
| '_ \ / _` | | |/ _ \  \ \ /\ / / _ \ | __|
| | | | (_| | | | (_) |  \ V  V /  __/ | |_
|_| |_|\__,_|_|_|\___/    \_/\_/ \___|_|\__|
```

Docker Images anzeigen

In [5]:

```
! docker image ls
```

```
REPOSITORY              TAG                 IMAGE ID            CREATED
SIZE
hairyhenderson/figlet   latest              9a14a4f852dc        4 days ago
6.2MB
hello-world             latest              fce289e99eb9        4 months ago
1.84kB
```

Docker Container (auch beendete anzeigen)

In [6]:

```
! docker container ps -a
```

```
CONTAINER ID        IMAGE                    COMMAND                CREATED
STATUS                      PORTS               NAMES
1e0e1406607a        hairyhenderson/figlet    "figlet hallo welt"    2 seconds
ago       Exited (0) 1 second ago                       compassionate_prosk
uriakova
11b1dbfc7905        hairyhenderson/figlet    "figlet hello-world"   4 seconds
ago       Exited (0) 2 seconds ago                      serene_antonelli
1948ecd5631b        hello-world              "/hello"               8 seconds
ago       Exited (0) 6 seconds ago                      youthful_easley
6c345fc260f0        hello-world              "/hello"               6 days ag
o          Exited (0) 6 days ago                         vigorous_borg
```

Alle beendeten Container aufräumen

In [7]:

```
! docker container prune -f
```

```
Deleted Containers:
1e0e1406607a5b3db1e95996ceaaf9e68124cde1720db3166ba99d9465d4aaa4
11b1dbfc79058f79c2d55ff190bace9310229009611730403139 8fe73fe8f1f3
1948ecd5631ba5ee8b39d802f4ae1986ec5b134bde88d31fe62bbc702ca73402
6c345fc260f07eca531ce324df3d8f9a3a81a3422d4b7faebb7d01248f988686

Total reclaimed space: 0B
```

Docker Container dürfen keine mehr vorhanden sein

In [8]:

```
! docker container ps -a
```

```
CONTAINER ID        IMAGE               COMMAND             CREATED
STATUS              PORTS               NAMES
```

Docker Images sind alle noch vorhanden

In [9]:

```
! docker image ls
```

```
REPOSITORY              TAG                 IMAGE ID            CREATED
SIZE
hairyhenderson/figlet   latest              9a14a4f852dc        4 days ago
6.2MB
hello-world             latest              fce289e99eb9        4 months ago
1.84kB
```