

Hello Object Detection

Get jetson-inference repository

```
$ cd
$ git clone --recursive https://github.com/dusty-nv/jetson-inference
```

Create workspace

```
$ mkdir jetson_ws
```

Run the container

Go inside the jetson-inference repository

```
$ cd ~/jetson-inference
$ docker/run.sh --volume /home/jetson/jetson_ws:/jetson-inference/jetson_ws
```

Code

[helloai.py](#)

```
import jetson.inference
import jetson.utils

net = jetson.inference.detectNet("ssd-mobilenet-v2", threshold=0.5)
camera = jetson.utils.gstCamera(1280, 720, "/dev/video0")
display = jetson.utils.glDisplay()

while display.IsOpen():
    img, width, height = camera.CaptureRGBA()
    detections = net.Detect(img, width, height)
    display.RenderOnce(img, width, height)
    display.SetTitle("Title")
```

Re-build the container or build your own

Set NVIDIA Container Runtime for Docker

in the file `/etc/docker/daemon.json` set the default-runtime to nvidia by adding the following json code:

```
{
  "runtimes": {
    "nvidia": {
      "path": "nvidia-container-runtime",
      "runtimeArgs": []
    }
  },
  "default-runtime": "nvidia"
}
```

Build the container

```
$ docker/build.sh
```

From:
<https://wiki.eolab.de/> - HSRW EOLab Wiki

Permanent link:
https://wiki.eolab.de/doku.php?id=ip:ws2021:lets_plaiy:lab:hello_object_detection:start

Last update: **2021/10/16 21:23**

