# 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
```

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