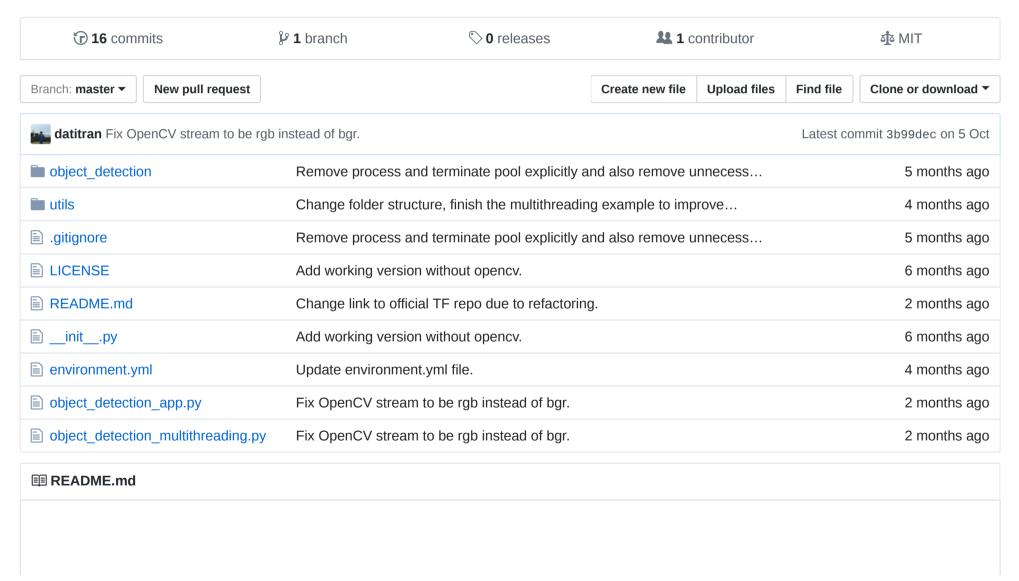📖 datitran / **object_detector_app**

Real-Time Object Recognition App with Tensorflow and OpenCV   https://medium.com/towards-data-scien…

#tensorflow #opencv

🕐 **16** commits	⑂ **1** branch	🏷 **0** releases	👥 **1** contributor	⚖ MIT

Branch: **master** ▾	New pull request		Create new file	Upload files	Find file	Clone or download ▾

🖼 **datitran** Fix OpenCV stream to be rgb instead of bgr.		Latest commit 3b99dec on 5 Oct
📁 object_detection	Remove process and terminate pool explicitly and also remove unnecess…	5 months ago
📁 utils	Change folder structure, finish the multithreading example to improve…	4 months ago
📄 .gitignore	Remove process and terminate pool explicitly and also remove unnecess…	5 months ago
📄 LICENSE	Add working version without opencv.	6 months ago
📄 README.md	Change link to official TF repo due to refactoring.	2 months ago
📄 __init__.py	Add working version without opencv.	6 months ago
📄 environment.yml	Update environment.yml file.	4 months ago
📄 object_detection_app.py	Fix OpenCV stream to be rgb instead of bgr.	2 months ago
📄 object_detection_multithreading.py	Fix OpenCV stream to be rgb instead of bgr.	2 months ago

📖 **README.md**

Object-Detector-App

A real-time object recognition application using Google's TensorFlow Object Detection API and OpenCV.

Getting Started

1. `conda env create -f environment.yml`
2. `python object_detection_app.py` Optional arguments (default value):
   - Device index of the camera `--source=0`
   - Width of the frames in the video stream `--width=480`
   - Height of the frames in the video stream `--height=360`
   - Number of workers `--num-workers=2`
   - Size of the queue `--queue-size=5`

Tests

```
pytest -vs utils/
```

Requirements

- Anaconda / Python 3.5
- TensorFlow 1.2
- OpenCV 3.0

Notes

- OpenCV 3.1 might crash on OSX after a while, so that's why I had to switch to version 3.0. See open issue and solution here.

- Moving the `.read()` part of the video stream in a multiple child processes did not work. However, it was possible to move it to a separate thread.

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