

Finding Lane Lines on the Road

Reflection

My pipeline consists of 5 steps:

- First, I convert the input image into gray scale image
- Then, perform Gaussian Blur on the gray image
- Next, use the Canny Edge Detection function to find the edges in the image
- Then, perform Hough on edge detected imagery
- Finally, perform Hough again to ignore the noise lines

Detail

Trouble Shot

- [MoviePy related] When run MoviePy to output video to folder, there is an error: **"TypeError: Can't convert 'bytes' object to str implicitly."**

Solution: This maybe caused by your computer doesn't have video codec. You can try to install ffmpeg codec by HomeBrew cmd below:

```
brew install ffmpeg --with-fdk-aac --with-ffplay --with-freetype --with-frei0r --with-libass --with-libvo-aacenc --with-libvorbis --with-libvpx --with-opencore-amr --with-openjpeg --with-opus --with-rtmpdump --with-schroedinger --with-speex --with-theora --with-tools
```

Refer: [How to install FFmpeg on Mac OS X](#)

[to be fixed] The video output keeps saying "TypeError: Can't convert 'bytes' object to str implicitly"