

Description of Output images

Calibration

- **cal_image_points.png**
 - all 20 calibration images with corners draw if the corner detection was successful

Distortion Correction

- **undistorted_chessboard.png**
 - chessboard calibration image before and after being undistorted
- **undistorted_straight_lane.png**
 - sample test image before and after being undistorted

Color/Gradient Threshold

Original test images compared to after distorted correction and color/gradient threshold operation

- **Color_Gradient_test1_out.png**
- **Color_Gradient_test2_out.png**
- **Color_Gradient_test3_out.png**
- **Color_Gradient_test4_out.png**
- **Color_Gradient_test5_out.png**
- **Color_Gradient_test6_out.png**

Perspective and Inverse Transform

Images demonstrating the perspective and inverse transform on the two straight lane images

- **perspective_Transform.png**

Basic Pipeline

Images demonstrating the basic pipeline.

- **Basic_Pipe_test1_out.png**
- **Basic_Pipe_test2_out.png**
- **Basic_Pipe_test3_out.png**
- **Basic_Pipe_test4_out.png**
- **Basic_Pipe_test5_out.png**
- **Basic_Pipe_test6_out.png**

Lane Position and Curvature

Images demonstrating lane position and curvature.

- **Lane_Pos_Curv_test6_out.png**

Kalman Smoothing Pipeline

Image demonstrating Kalman based smoothing pipeline.

- **Kalman_pipe_test6_out.png**

