

Computer Vision

Spring 2020

Problem Set #2

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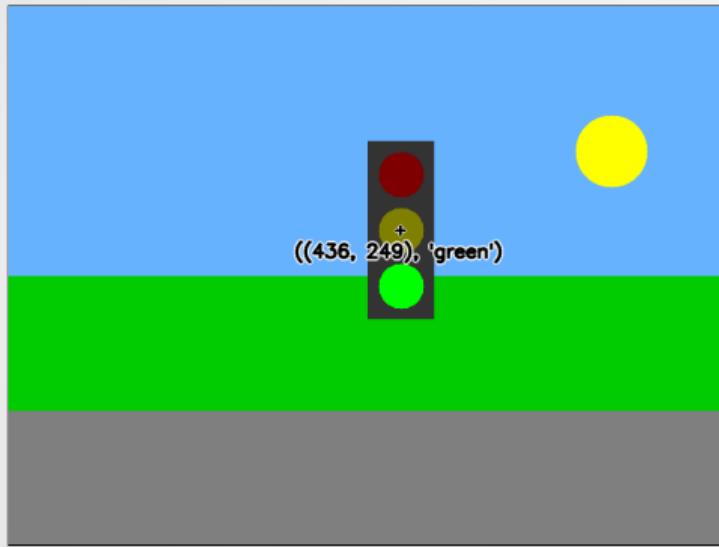
Traffic Light Detection



Coordinates and State:
(135, 121), color: green

ps2-1-a-1

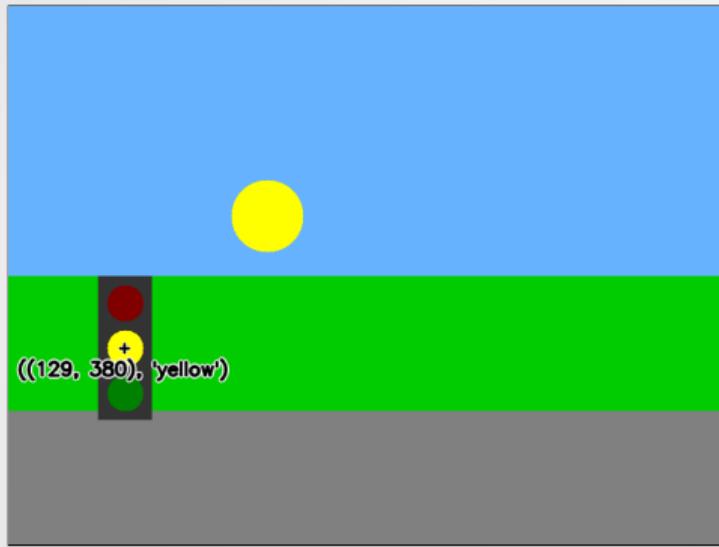
Traffic Light Detection



Coordinates and State:
(436, 249), color: green

ps2-1-a-2

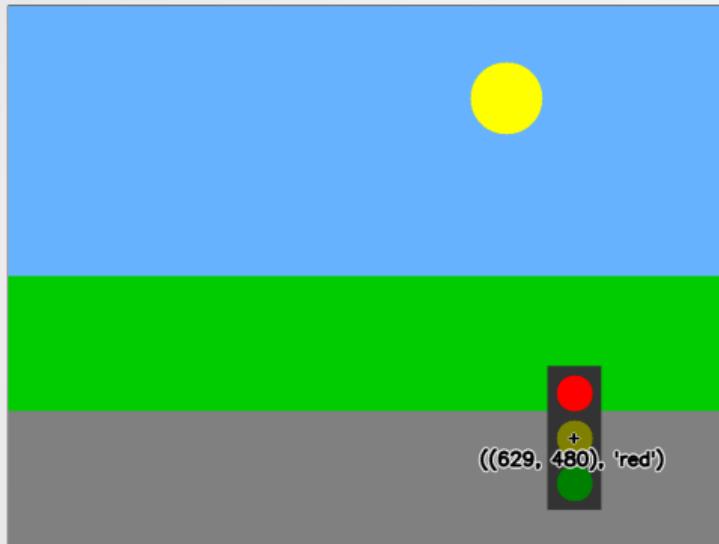
Traffic Light Detection



Coordinates and State:
(129, 380), color: yellow

ps2-1-a-3

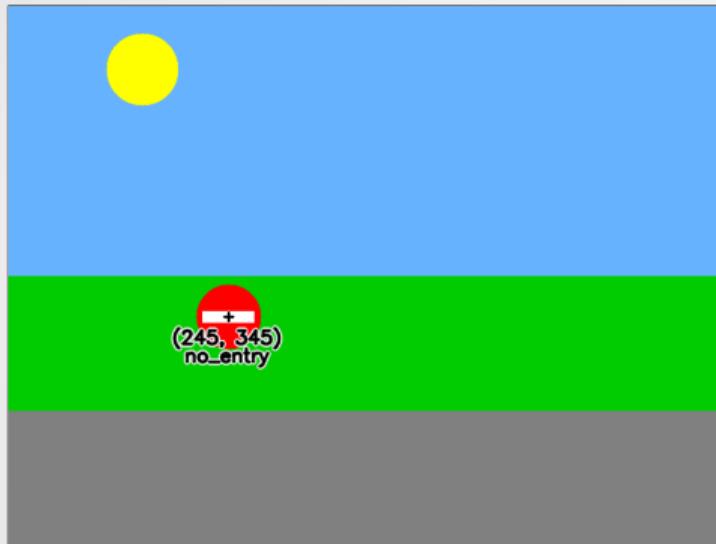
Traffic Light Detection



Coordinates and State:
(629, 480), color: red

ps2-1-a-4

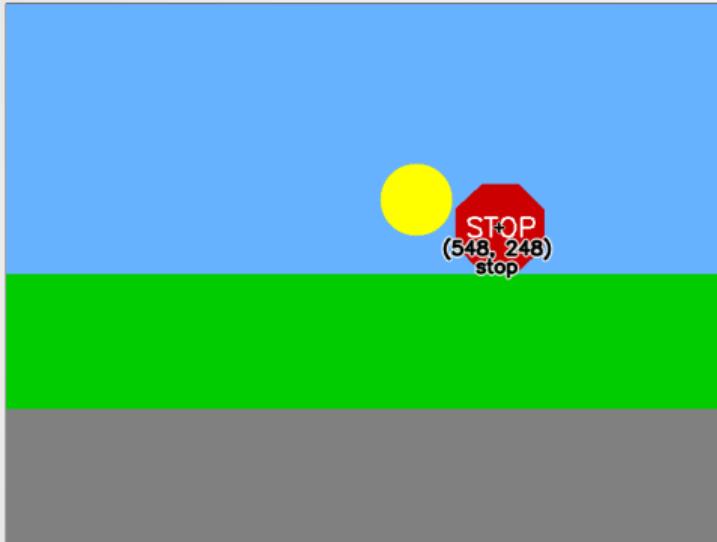
Traffic Sign Detection - Do Not Enter



Coordinates:
(245, 345)

ps2-2-a-1

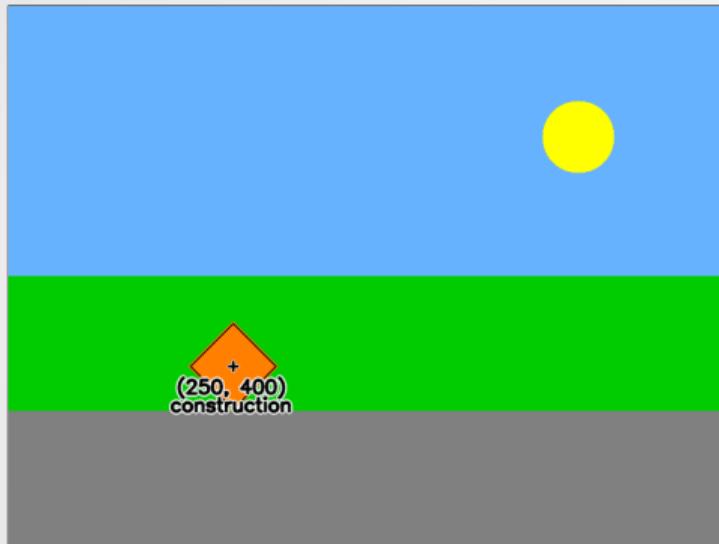
Traffic Sign Detection - Stop



Coordinates:
(548, 248)

ps2-2-a-2

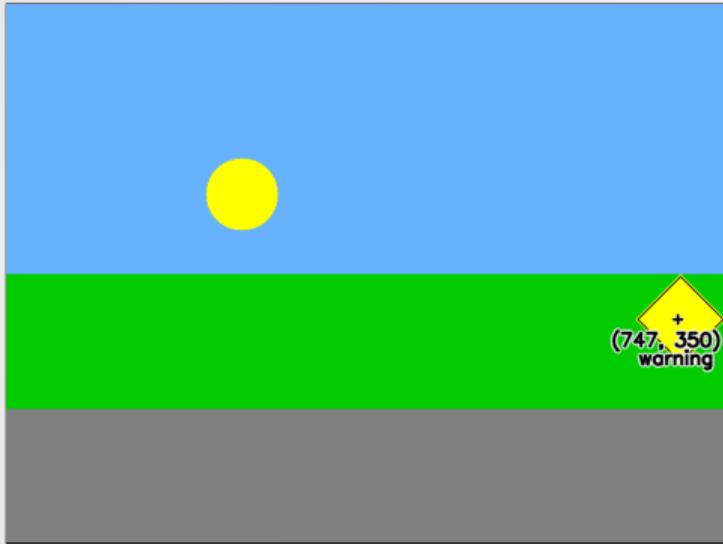
Traffic Sign Detection - Construction



Coordinates:
(250, 400)

ps2-2-a-3

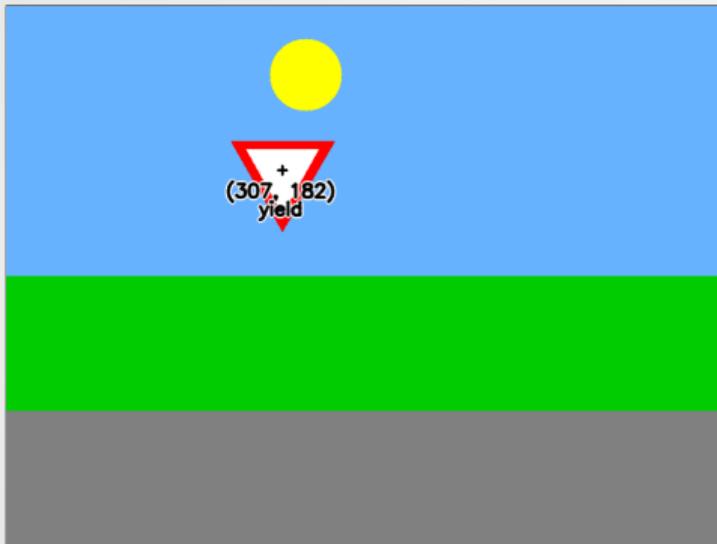
Traffic Sign Detection - Warning



Coordinates:
(747, 350)

ps2-2-a-4

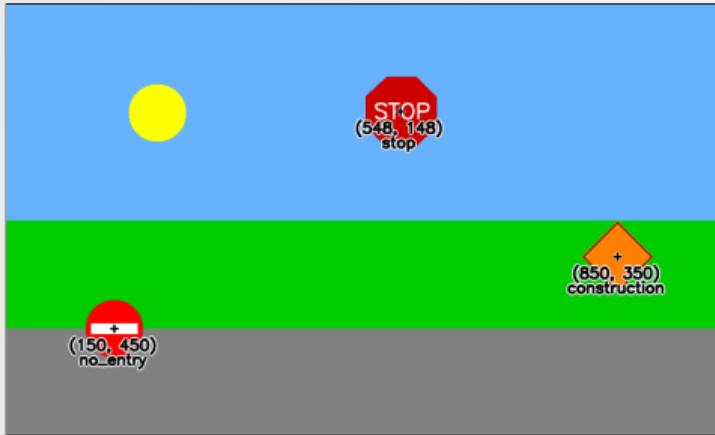
Traffic Sign Detection - Yield



Coordinates:
(307, 182)

ps2-2-a-5

Multiple Sign Detection



Coordinates and Name:

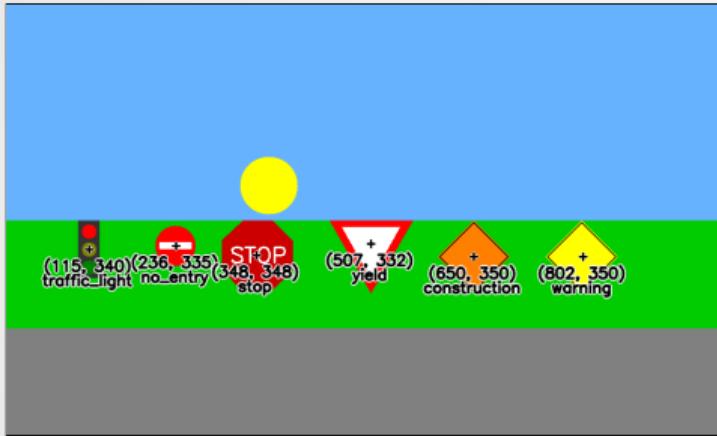
No Entry: (150, 450)

Stop: (548, 148)

Construction: (850, 350)

ps2-3-a-1

Multiple Sign Detection



Coordinates and Name:

Traffic Light: (115, 340)

No Entry: (236, 335)

Stop: (348, 348)

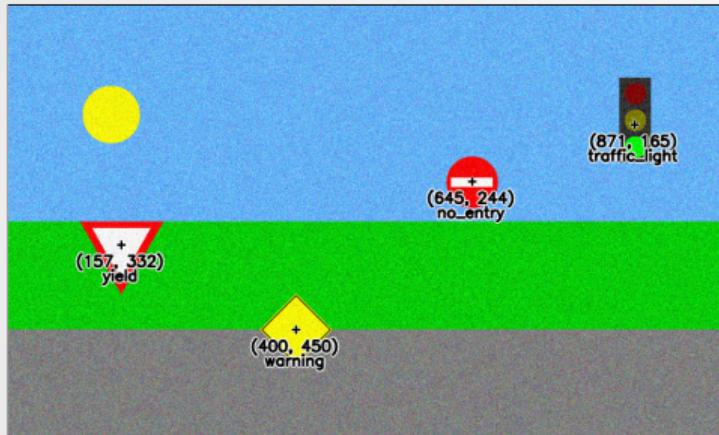
Yield: (507, 332)

Construction: (650, 350)

Warning: (802, 350)

ps2-3-a-2

Multiple Sign Detection With Noise



Coordinates and Name:

Yield: (175, 332)

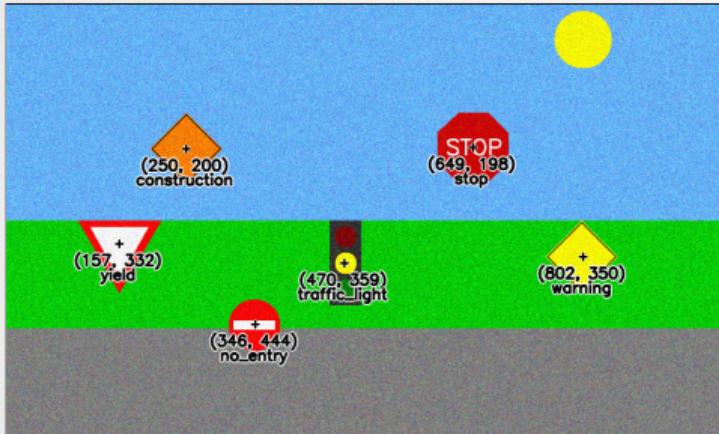
Warning: (400, 450)

No Entry: (645, 244)

Traffic Light: (871, 165)

ps2-4-a-1

Multiple Sign Detection With Noise



Coordinates and Name:

Yield: (157, 332)

Construction: (250, 200)

No Entry: (346, 444)

Traffic Light: (470, 359)

Stop: (649, 198)

Warning: (802, 350)

ps2-4-a-2

Challenge problem - A



Coordinates and Name:
Warning: (353, 351)

ps2-5-a-1

Challenge problem - A



Coordinates and Name:
Stop: (290, 498)

ps2-5-a-2

Challenge problem - A



Coordinates and Name:
Construction: (472, 340)

ps2-5-a-3

Challenge problem - B



Coordinates and Name:

XX: (-1, -1)
XX: (-1, -1)

ps2-5-b-1

Challenge problem - B



Coordinates and Name:
Warning: (345, 151)
XX: (-1, -1)

ps2-5-b-2

Challenge problem - B



Coordinates and Name:
Stop: (396, 339)
Warning: (690, 319)

ps2-5-b-3

Challenge problem - Text

Describe what you had to do to adapt your code for this task. How does the difference between simulated and real-world images affect your method? If you used other functions/methods, explain why that was better (or why your previous implementation did not work)

5c answer here

5c answer here

5c answer here

5c answer here