DEMO Workflow

Problems and Solution

Lane - Out of Lane



Solution

Lane + ROI

Lane - Number of Cars



Solution

Addition / Subtraction

Norfair - Small Bounding Box



Solution

Norfair - Ignore small bounding boxes

Small by volume:

 $|x^2-x^1|^*|y^2-y^1| < threshold$

Norfair - Max distance between points



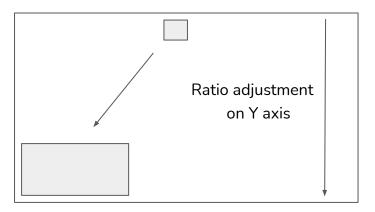
Solution

Norfair adjustment

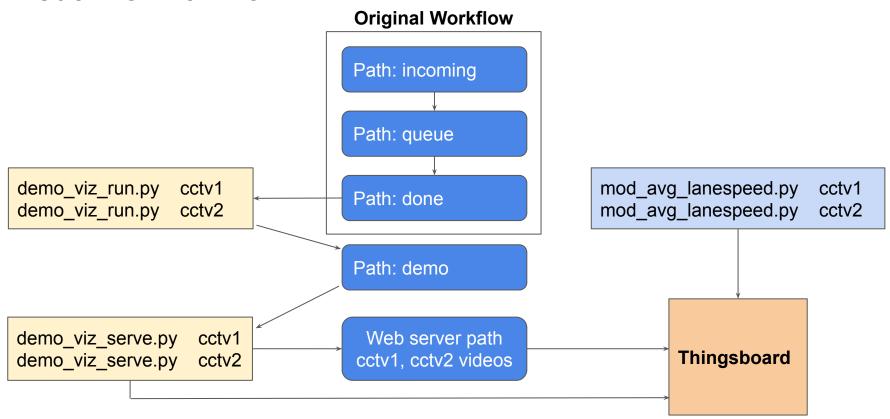
- Acceleration-enabled Kalman-Filter
- Suitable Max distance between points
- Perspective correction
 - Y-axis distance ratio
 - Perspective lib

Norfair: Custom distance function

- Ignore small bounding box
- Ignore Top 10%
- Y-axis distance ratio



Visualize Workflow



Object ID

PostgresQL Data types

Integer	[4 bytes]	-2,147,483,648 to +2,147,483,647
Bigint	[8 bytes]	-9223372036854775808 to 9223372036854775807