Automated Car Recognition

# Introduction

The main idea of our project is to help people with car recognition. There are people that are not so passionate about cars but want to know what brand is a specific car in order to look further after it. In foreign countries certain brands of cars are far more used than in our countries (e.g. Sweden with Saab). So instead of asking people about the brand you just take a picture of the car and feed it to the app. You will get your answer as soon as possible.

# Problem Definition

The problem is that given a picture of a car, whether it is from the back or the front, return the car’s producer and type. The solution should work even if the mark of the car is hidden or not. Recognition should be done based images containing any of the following: grills, headlights/stoplights, producer symbol.

# Similar applications

Blippar is a mobile app that doesn’t focus necessarily on cars but it can get information about any kind of product that belongs to a brand or if its made by a notorious producer. This app is made to recognize all sort of objects including cars.

Car capture, also a mobile app, gives the user information about the car’s real price, producer, features, safety specifications and more. This app was made solely for people that want to buy a car and want to see if the deal that has been proposed to them is the best or not, and if not, where to find the best one.

# Methods

\*\*Most likely a convolutional net and a neural net using tensorflow\*\*

# Experiments

## Our data

\*\*Float matrixes representing car image in black and white\*\*

## Results

\*\*Null\*\*

# Conclusion

\*\*Null\*\*