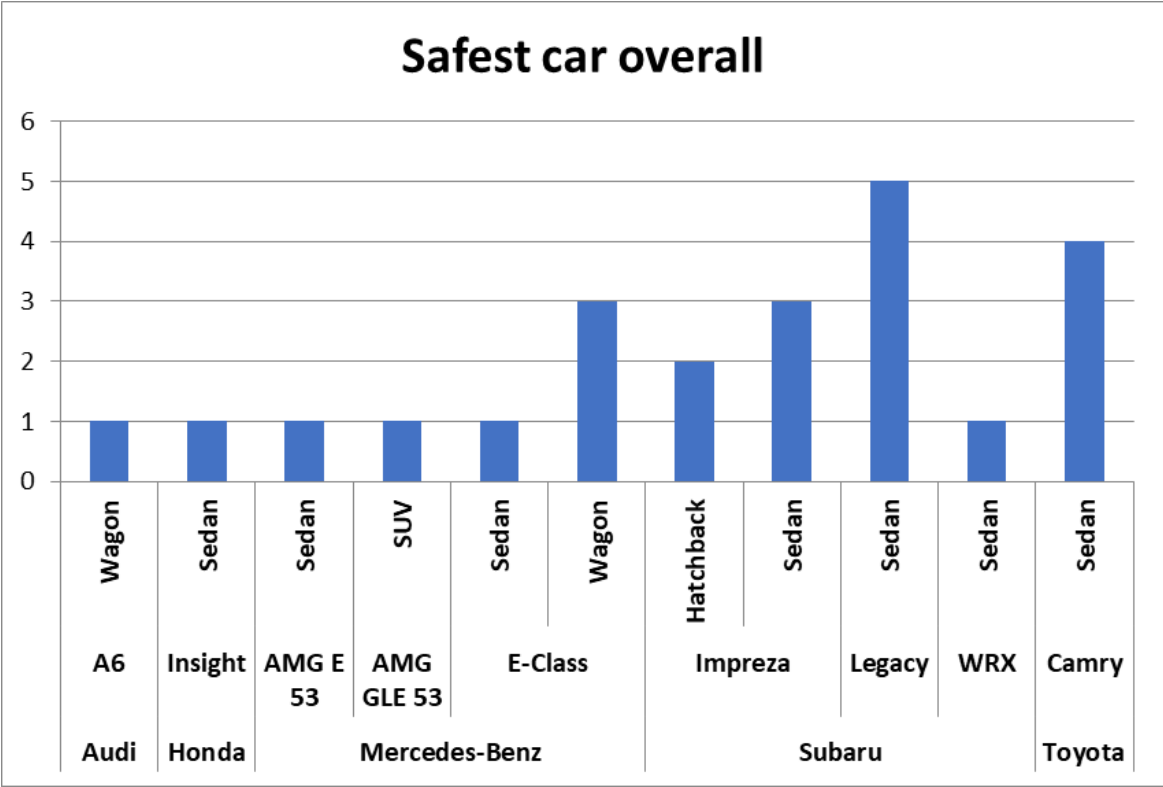


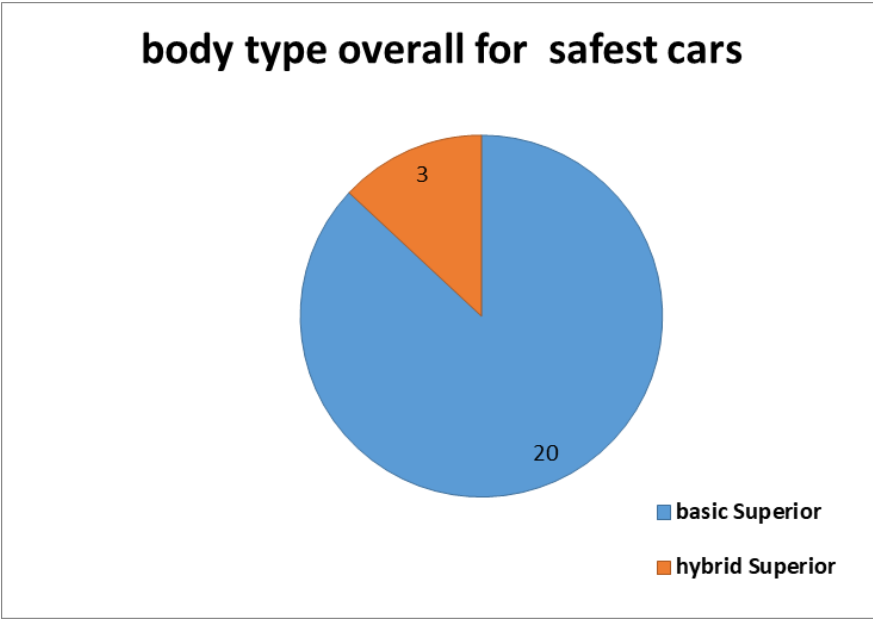
# Analysis Observation

The observation after a detailed analysis of the safety rating data for the years 2011 to 2022 is enlisted as

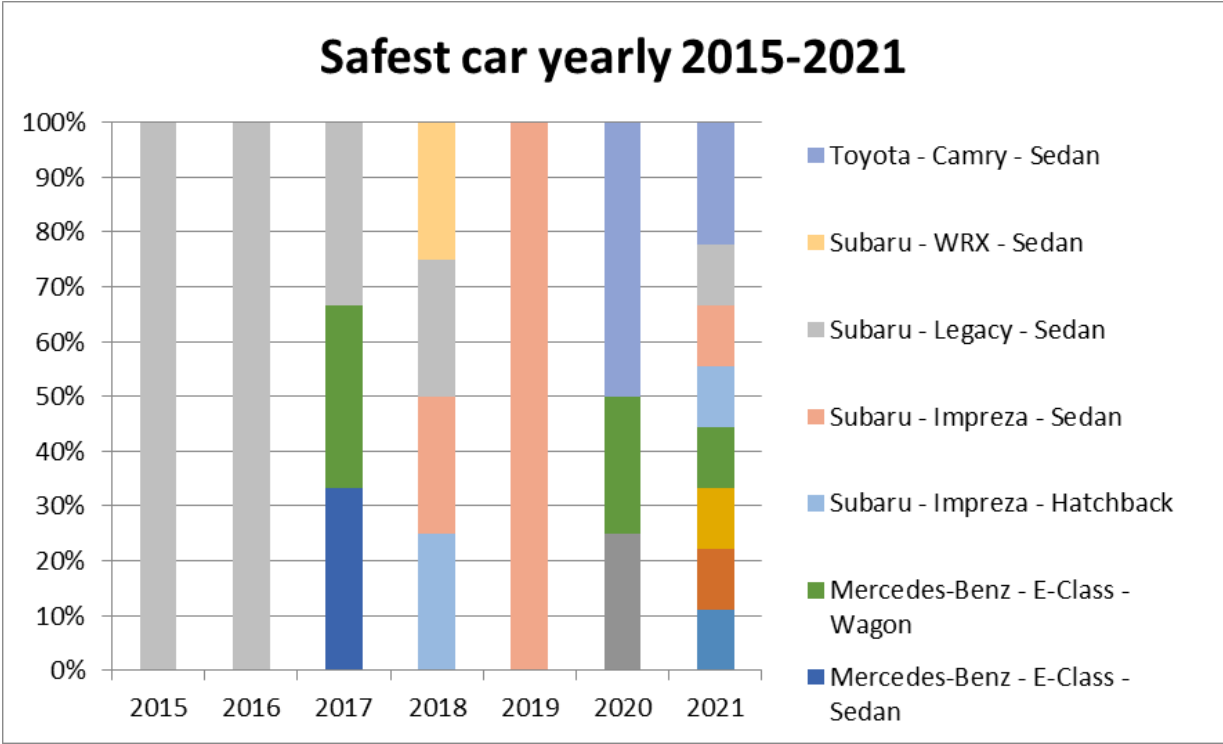
- There are 23 cars overall considered the safest from the given data with the top ratings for all the safety features in 2011-2023.



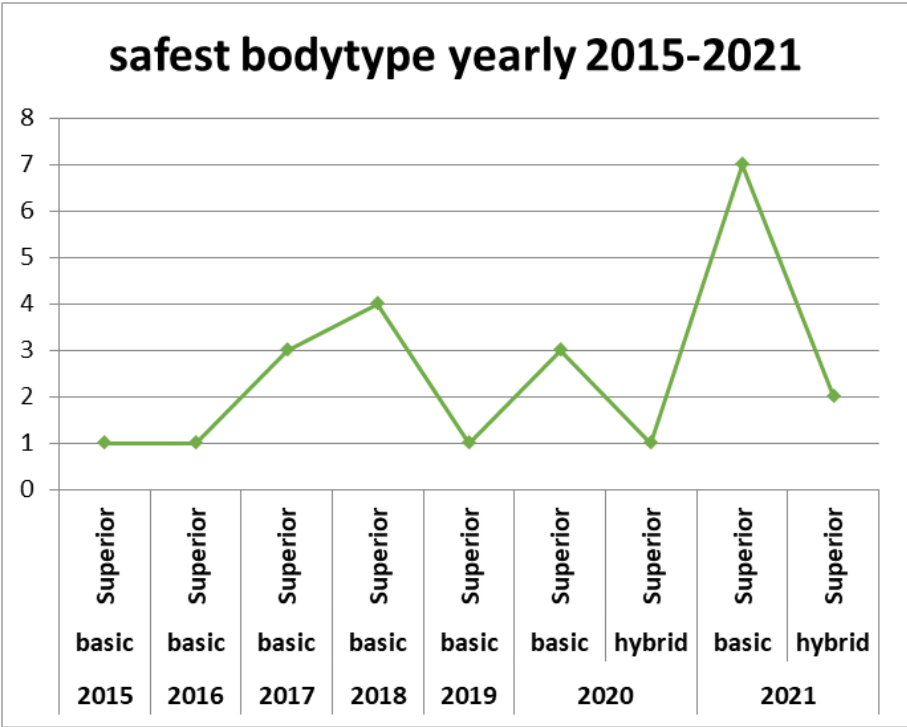
- This bar graph shows the count of the safest cars with the respective brand model and the submodel class belonging to
- The second observation is that the body type considered the safest is preferred in cars with the top safety features. Thus the analysis shows that the combination of basic, hybrid engine type and superior front crash prevention was the safest body type from the overall data.



- This plot shows the 2 safest body types the one with basic engine type and superior front crash prevention, and the second with the hybrid engine type and superior front crash prevention.
- On yearly analysis of the data points to the safest cars with the top rating in all safety features and found for years 2015-2021



- The given plot shows that for 2015 and 2016 the Legacy-Sedan by Subaru stands as the safest car while in the year 2017, the E Class Sedan and Wagon by Mercedes-Benz and again the Legacy-Sedan by Subaru was the safest car.
- For the year 2018, we get 4 safest options WRX Sedan, Legacy Sedan, Impreza Hatchback, and Impreza Sedan by the Subaru brand while the 2019 safest car is Impreza Sedan by Subaru.
- The year 2020 had 3 safest options the Camry Sedan by Toyota, E Class Wagon by Mercedes-Benz, and Legacy-Sedan by Subaru while the year 2021 shows that all cars from 2015 to 2020 were among the safest cars.
- For the year 2022 honda Civic Sedan was the safest car with a body type basic-superior.
- For the years 2011 and 2012, the Mercedes Benz E Class Sedan was the safest car with a body type basic-superior.
- For the years 2013 and 2014, Subaru Legacy Sedan was the safest car with a body type basic-superior.



- Here the plot signifies the safest body type from the year 2015 to 2019 had been basic-superior while for years 2020 and 2021 basic-superior and hybrid-superior were the safest body type.
- For the year 2022, and from the year 2011 to 2014 again basic-superior stands as the safest body type.