# Mechanics of the car

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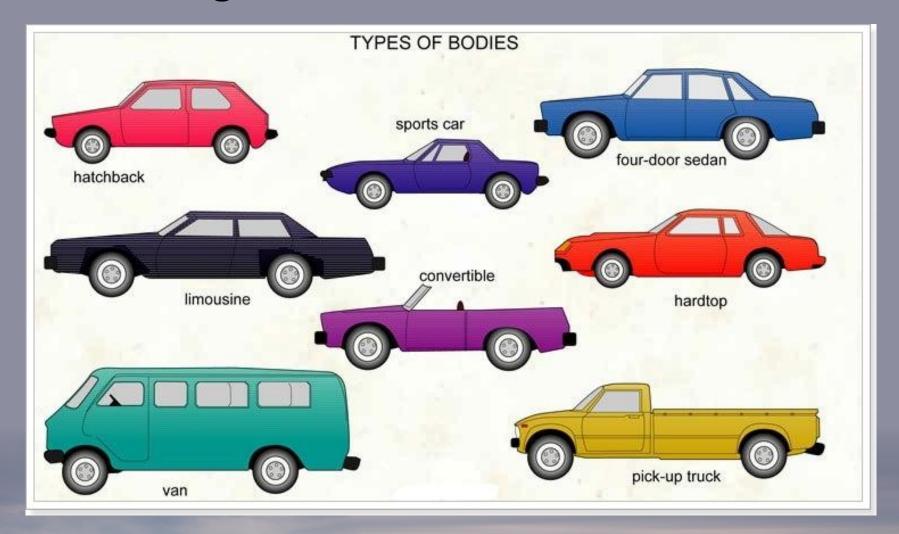
I know a lot about cars, man. I can look at any car's headlights and tell you exactly which way it's coming.

Mitch Hedberg



### Types of vehicles

## There are a lot of car body configurations. Let's look at them.



# A **sedan** or **saloon** is a passenger car, the most common among the car body configurations.





# A hatchback is a car body configuration with a rear door that swings upward to provide access to a cargo area.





A convertible or cabriolet is an automobile body style that can convert between an open-air mode and an enclosed one.





A **Sport Utility Vehicle (SUV)** is a vehicle classified as a light truck, but operated as a family vehicle.





A **pickup truck** is a light duty track having an enclosed cab and an open cargo area with low sides and tailgate.



A **limousine** is a luxury sedan or saloon car generally driven by a chauffeur and with a partition between the driver and the passenger compartment.





# A Lorry / Truck is a motor vehicle designed to transport cargo.





## Look at the pictures and name types of car







Limousine

## Look at the pictures and name types of car



Sedan / Saloon



Sport Utility Vehicle

#### Well done!!!!!!



#### Car's anatomy

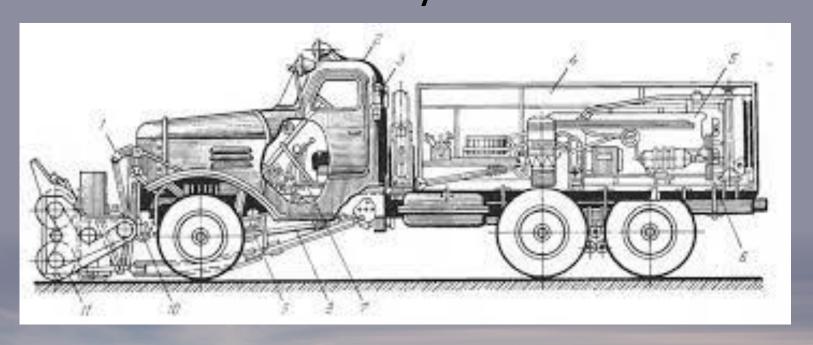
## Let's look at the main components of the vehicle

- Body кузов
- Bonnet капот
- Boot отделение для багажа
- Bumper бампер
- Glovebox бордачок
- Front seat переднее сиденье
- Passenger seat пассажирское сиденье
- Roof крыша
- Wheel колесо
- Windscreen переднее, лобовое стекло

### Let's look at the main components of the vehicle

- Cab кабина
- Front / back door передняя / задняя дверь
- Dashboard приборная панель
- Safety seat детское сиденье
- Air bag подушка безопасности
- Outside / wing mirror зеркало заднего вида / боковое зеркало
- Steering wheel руль

There are a lot of tubes, pipes, wires and components under the bonnet of a car. A typical car consists of 13,000 different parts. Nearly 60 different materials go into the construction of a car: from steel to nylon.



Although modern cars differ in style, performance and cost, they have the same principles. Usually people divide the mechanics of a car into seven groups.



### Engine

It burns fuel and converts the heat into mechanical energy which turns the wheels.



#### Engine

 There are temperatures of over 700°C inside the engine. The engine converts only a quarter of this heat into power: the cooling and exhaust systems take the rest away. An engine has 120-150 parts. They operate efficiently because oil separates them.

#### **Transmission**

This carries the power from the engine to the wheels. It usually consists of clutch (педаль сцепления), gearbox (коробка передач) and propeller shaft (карданный



вал).

#### **Bodywork**

Few modern cars have a chassis ( ходовая часть), and the bodywork holds the car together.



#### Steering

That is necessary in order to steer the car, that is, to turn it in the direction in which the driver wants it to move.



# Suspension (подвеска)

Modern suspension systems of springs (пружины), torsion bars and dampers (амортизаторы) help to make driving conditions on any road surface (поверхность) comfortable.



# Wheels, tyres (шины) and brakes (тормоза)

Wheels with tyres move the car along the road. If the driver wants to stop the car, he uses brakes. When a car stops from 60 mph, its brakes generate enough heat in order to boil 2 pints of water.



#### **Electrics**

A 12 volt battery provides the primary source of power which starts the engine. The system also includes the starter motor (стартер), lights, heater (обогреватель), windscreen wipers (стеклоочистители) and other devices.



#### Let's check yourself



#### Let's check yourself



#### Excellent!!!!!



Let's read the dialogues