

# Instructions for Using the FindCarApp

Nina

## Database

- The data was extracted from the 1974 Motor Trend US magazine, and comprises fuel consumption and 10 aspects of automobile design and performance for 32 automobiles (1973-74 models). For more details, see mtcars (<https://stat.ethz.ch/R-manual/R-devel/library/datasets/html/mtcars.html>)

## Inputs

1. Use checkbox input to select transmission types: Manual, automatic or both.

**Transmission Type:**  
☒ Manual (1)  
☒ Automatic (0)

2. Use the slider input to select the minimum miles per gallon you require.

**Min Miles per Gallon:**  


A horizontal slider with a blue handle. The range is from 10 to 35. Ticks are labeled at 10, 13, 16, 19, 22, 25, 28, 31, and 34.

#### 3. Use the slider input to select the minimum gross horsepower you require.

**Min Gross Horsepower:**  


A horizontal slider with a blue handle. The range is from 50 to 250. Ticks are labeled at 50, 70, 90, 110, 130, 150, 170, 190, 210, 230, and 250.

## Outputs

1. The average mpg of your selections

The App will calculate the average miles per gallon of the cars that you selected.

2. List of cars meet your requirements

The App will display all the cars meet your requirement in the datatable with other features, such as weight, gear, number of cylinders, etc.

Show 

25

 entries

Search:

Model	MPG	Cylinders	Displacement	Horsepower	Weight	Transmission	Gear
Mazda RX4	21.0	6	160.0	110	2.620	1	4
Mazda RX4 Wag	21.0	6	160.0	110	2.875	1	4
Datsun 710	22.8	4	108.0	93	2.320	1	4
Hornet 4 Drive	21.4	6	258.0	110	3.215	0	3
Hornet Sportabout	18.7	8	360.0	175	3.440	0	3
Valiant	18.1	6	225.0	105	3.460	0	3
Duster 360	14.3	8	360.0	245	3.570	0	3

Merc 240D	24.4	4	146.7	62	3.190	0	4
Merc 230	22.8	4	140.8	95	3.150	0	4
Merc 280	19.2	6	167.6	123	3.440	0	4
Merc 280C	17.8	6	167.6	123	3.440	0	4
Merc 450SE	16.4	8	275.8	180	4.070	0	3
Merc 450SL	17.3	8	275.8	180	3.730	0	3
Merc 450SLC	15.2	8	275.8	180	3.780	0	3
Cadillac Fleetwood	10.4	8	472.0	205	5.250	0	3
Lincoln Continental	10.4	8	460.0	215	5.424	0	3
Chrysler Imperial	14.7	8	440.0	230	5.345	0	3
Fiat 128	32.4	4	78.7	66	2.200	1	4
Honda Civic	30.4	4	75.7	52	1.615	1	4
Toyota Corolla	33.9	4	71.1	65	1.835	1	4
Toyota Corona	21.5	4	120.1	97	2.465	0	3
Dodge Challenger	15.5	8	318.0	150	3.520	0	3
AMC Javelin	15.2	8	304.0	150	3.435	0	3
Camaro Z28	13.3	8	350.0	245	3.840	0	3
Pontiac Firebird	19.2	8	400.0	175	3.845	0	3

Model	MPG	Cylinders	Displacement	Horsepower	Weight	Transmission	Gear
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Showing 1 to 25 of 32 entries

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