

# **User manual for Racing Strategist**

Software version: 1.0.0

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## **Introduction**

Racing Strategist is an interesting and useful application to plan and optimize race strategy. By this programme can be predicted racing time in cases of several box strategies, including the case of the shortest racing time. The application uses lap times, information about fuel and tyres and further parameters to calculate the result. It has a wizard style user interface and you do not need to use any game specific file. That means the programme is applicable to any racing game and even the real life where we have to take into consideration the box strategy.

## **System requirement and setup**

The Racing Strategist is a Java application, so the version 1.7 of the Java Runtime Environment is recommended for the correct running. Installation is not necessary. The programme can be started by clicking on the RacingStrategist.jar

## **Main screen**

After the starting of the application the main screen appears like in the Fig. 1. From the menu bar the user can start a new session, check the credits or close the programme. Next page appears by clicking on the picture.



*Fig. 1: Main screen*

## Parameters screen

The Parameters screen appears in the Fig. 2. Here can be set the parameters that the calculation process uses.

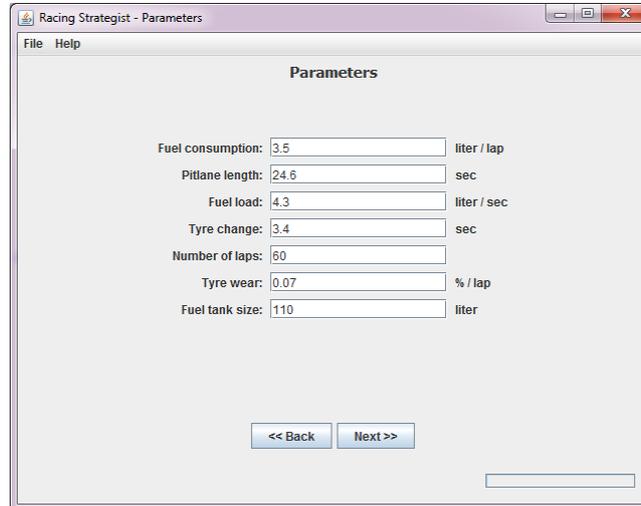


Fig. 2: Parameters screen

The following table shows the parameters and their importances for the calculation.

Name	Unit	Description
Fuel consumption	liter / lap	Necessary fuel amount to complete a lap.
Pit lane length	sec	Necessary time to drive through the pit lane + stop + start in front of the garage.
Fuel load	liter / sec	Speed of the fuel flow during at the fuel filling in the box.
Tyre change	sec	Necessary time to change the tyres in the box.
Number of laps	-	Amount of laps to complete the race.
Tyre wear	% / lap	The intensity of tyre wearing during the race.
Fuel tank size	liter	Size of the fuel tank of the car.

By clicking the 'Next >>' button the Lap times screen appears.



## Results screen

The Results screen appears in the Fig. 4. The user interface shows the predicted racing time, predicted fastest lap, ideal fuel amount at the start, lap number of the stops and the necessary fuel amounts at the stops to complete the race at the theoretical shortest racing time.

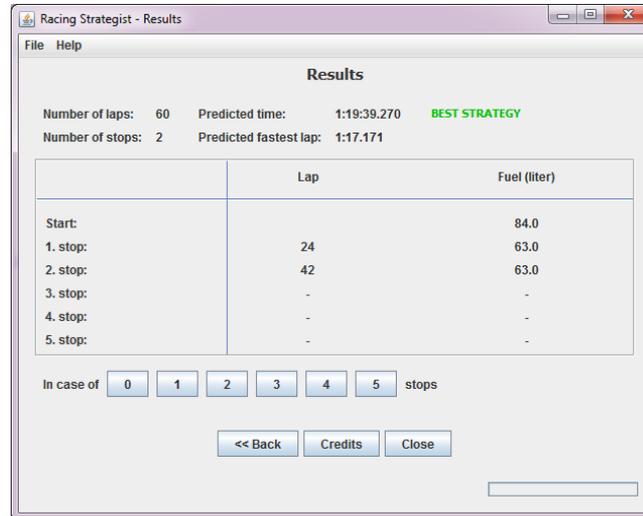


Fig. 4: Results screen

Below the table can be shown the alternative strategies for the race. These are the 0, 1, 2, 3, 4 or 5 stops strategies.

## Credits

The Racing Strategist 1.0.0 was developed by Andras Kiss in 2014. The cover on the main screen of the application and the Racing Strategist logo was created by Balazs Adorjan in 2014. Andras Kiss is the owner of the Racing Strategist 1.0.0 application. All rights reserved. For further cooperation please contact: [andraskiss01@yahoo.com](mailto:andraskiss01@yahoo.com).