

Interesting Formula 1 Statistics

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Presenting:

Project Proposal

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Motivation

- Highest class international open-wheel single-seater formula racing series
- Huge viewer base
- Few free and publicly available tools to analyze results and statistics



Related Work

https://www.stat.cmu.edu/capstoneresearch/315files_f22/team19.html

(unfortunately, not available anymore)

Dataset - Kaggle

Formula 1 World Championship (1950 - 2023)

Data Card Code (62) Discussion (32)

1177

New Notebook

Download (6 MB)



constructor_results.csv (210.48 kB)



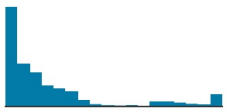



Detail Compact Column

5 of 5 columns

About this file

Race results of the constructor's championship

constructorResultsId	raceId	constructorId	# points	status
Id	Id of race	Id of constructor	Points	Status of result
 1 16.7k	 1 1096	 1 214	 0 66	\N D
1	18	1	14	\N
2	18	2	8	\N
3	18	3	9	\N
4	18	4	5	\N
5	18	5	2	\N

Data Explorer

Version 21 (20.14 MB)

- circuits.csv
- constructor_results.csv
- constructor_standings.csv
- constructors.csv
- driver_standings.csv
- drivers.csv
- lap_times.csv
- pit_stops.csv
- qualifying.csv
- races.csv
- results.csv
- seasons.csv
- sprint_results.csv
- status.csv

Summary

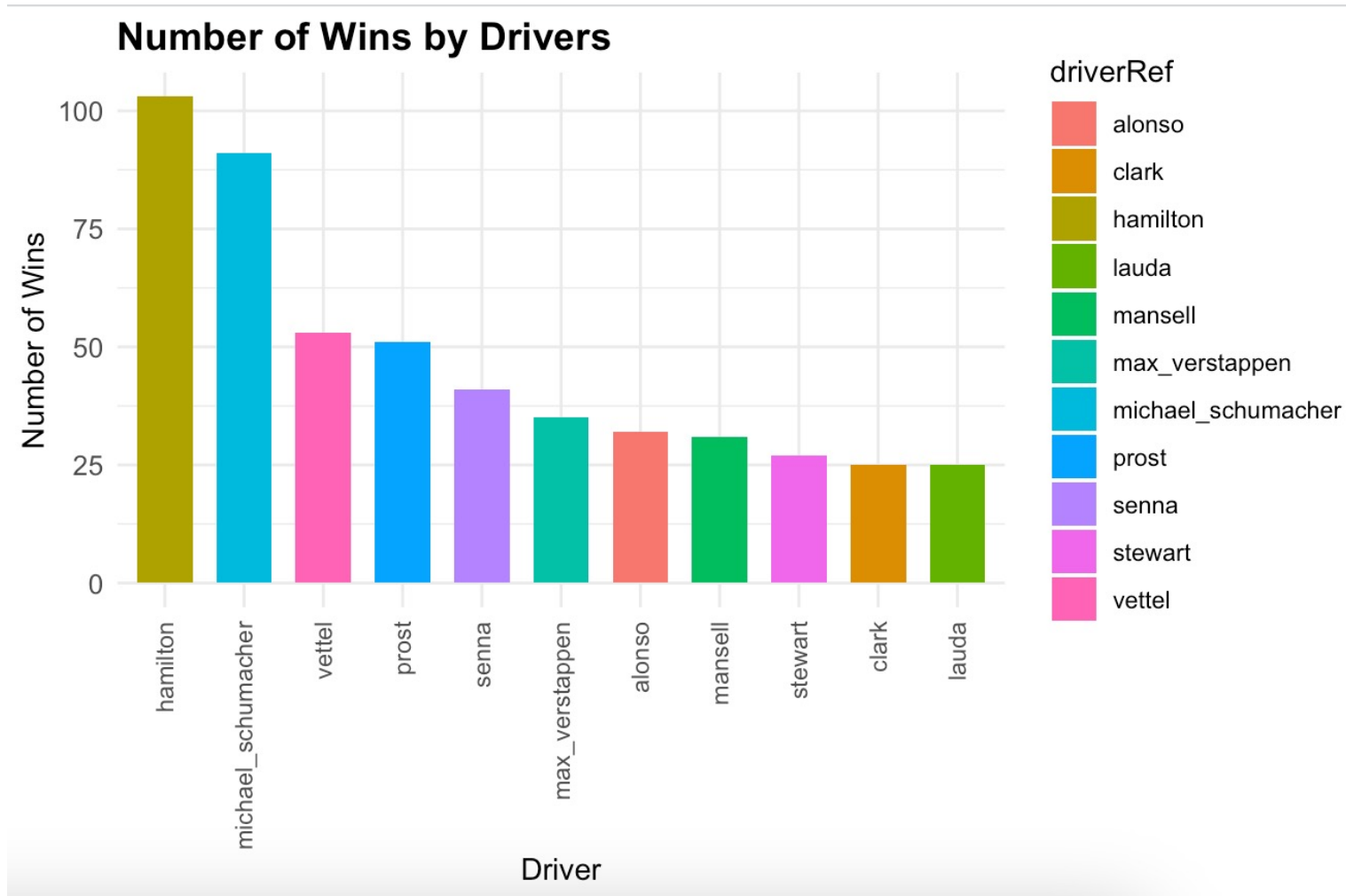
- 14 files
- 120 columns

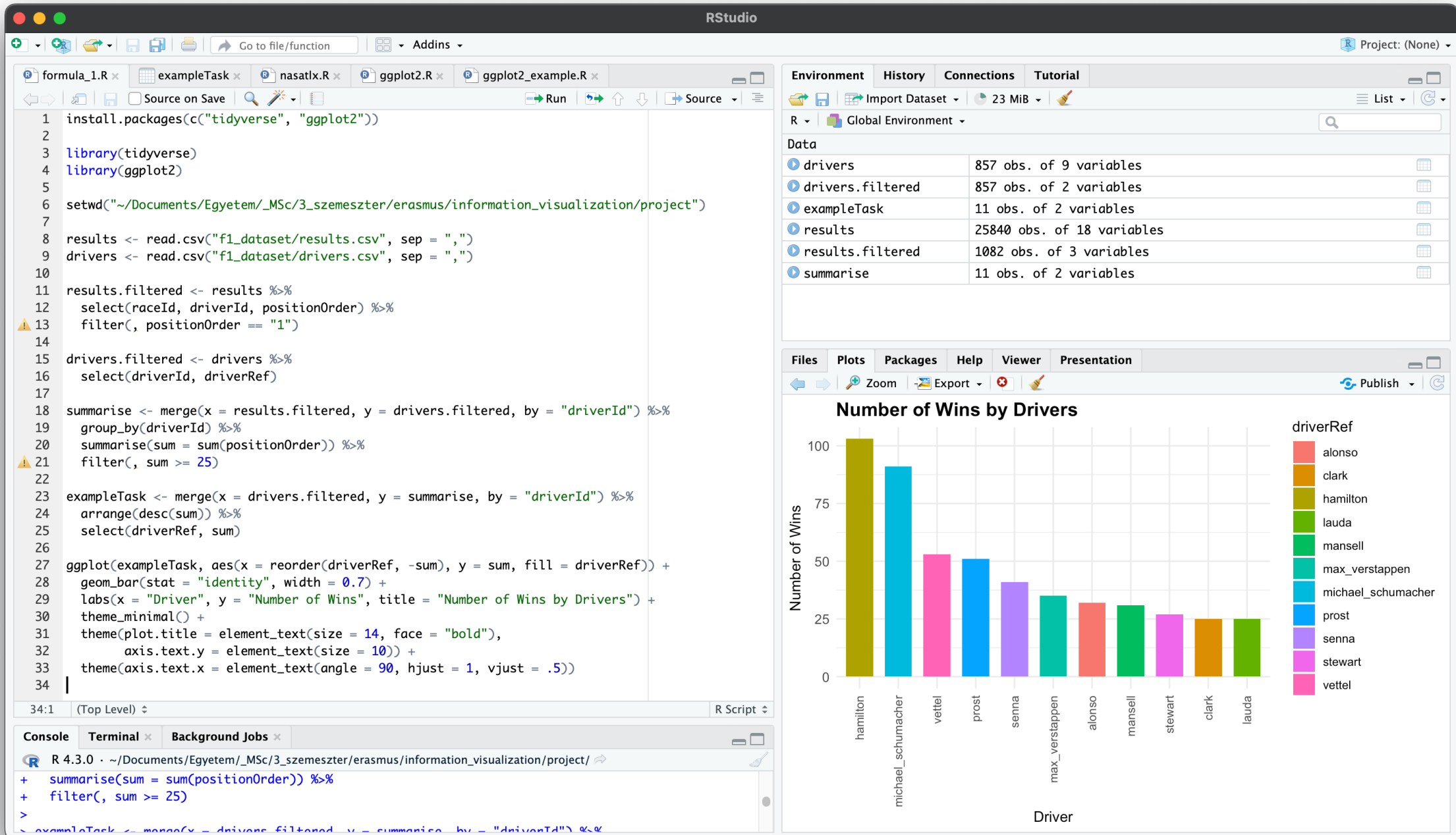
<https://www.kaggle.com/datasets/rohanrao/formula-1-world-championship-1950-2020>

5 Tasks

- Qualifying pole position time [by track] [from year to year]
- Number of wins per driver since [from year to year]
- Grid position to win conversion rate [by track] [from year to year]
- Driver championships animation from 1950 to 2022
- Constructor championships animation from 1950 to 2022

Task Prototype





Interaction

- Slider to select time period (from - to)
- Dropdown to select track by name
- Buttons to start, stop and rewind animation
- Mouse over to highlight certain elements

Thank you for your attention!

