

Decoding Tour De France
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Description of Dataset:

| Column Name | Attribute Type | Description |
|--------------------------|----------------|---|
| Year | Quantitative | Year of the race |
| Winner's Average Speed | Quantitative | The average speed of the winner |
| Total Distance (km) | Quantitative | Total distance in kilometres of the entire race. |
| Number of Stages | Quantitative | Total stages of the race. Tour De France consist of day-long segments or stages each having a fixed distance. |
| Finishers | Quantitative | Total participants that managed to finish the race. |
| Entrants | Quantitative | Total entrants for the race at that year. |
| Winner | Categorical | Name of winner |
| Winner's Nationality | Categorical | Nationality of the winner |
| Winner's Team | Categorical | The team associated with the winner. |
| Start Date | Quantitative | Start date of the event. |
| End Date | Quantitative | End date of the event. |
| Starting City | Categorical | Starting city, where the event was flagged off. |
| Starting City Latitude | Quantitative | The latitude of the starting city. |
| Starting City Longitude | Quantitative | The longitude of the starting city. |
| Finishing City | Categorical | Finishing city, where the event finished. |
| Finishing City Latitude | Quantitative | Latitude of the finishing city. |
| Finishing City Longitude | Quantitative | Longitude of the finishing city. |

Source: <https://public.tableau.com/en-us/s/resources>

Purpose of the visualization:

The purpose of the visualization is to analyse and make sense of how Tour De France has evolved over the years. Namely, the visualizations look at entrants, participants, the winning country, length of the tour and year. It considers its entire 114 years of history.

Description of the visualization:

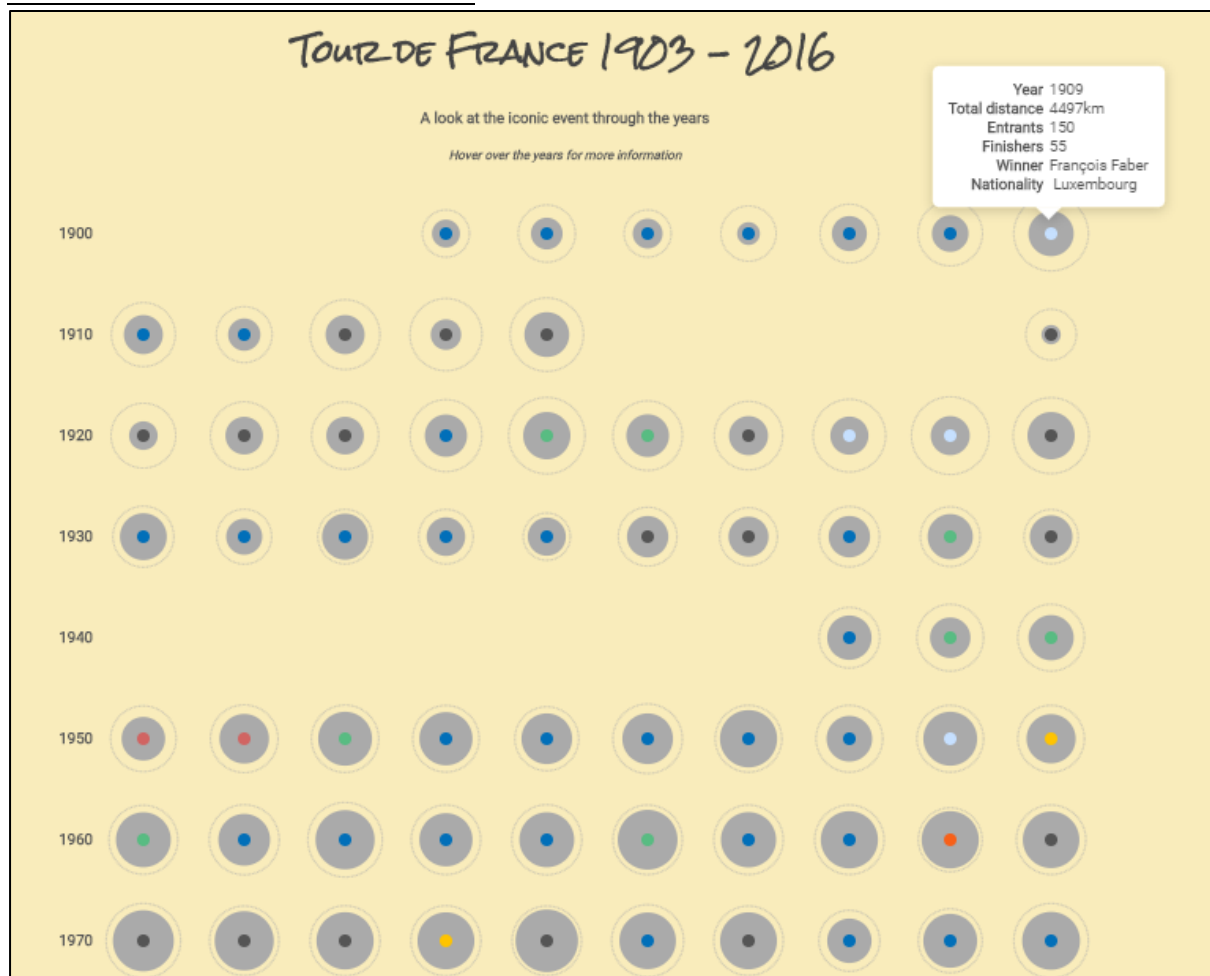
The visualization depicts every Tour De France from 1903 to 2016.

- Each race is shown by a group of circles. The outermost circle depicts the number of entrants. The second circle depicts the number of finishers of the race. The innermost coloured circle depicts the winner and his nationality.
- Hovering over a circle gives information regarding year, total distance, number of entrants, finishers, name of the winner and his nationality.

This visualization helps answer the following queries:

- How popular the event has been since 1903? The relative size of the circles depicts that the popularity of Tour De France has grown steadily over the years. It is now considered one of the most prestigious sporting event, a true test for an athletes strength and endurance.
- Has organization of Tour De France ever been interrupted? It has been interrupted twice – once due to World War 1, and second time due to World War 2.
- Has Tour De France ever been mired with controversy? As we notice, there are no winners declared from the years 1999-2005. These were the years when Lance Armstrong was declared the winner. But was stripped of his title due to doping charges.
- Most common winning country of the event? France
- Most common winning country in the last 20 years (1990-2016)? Spain
- The first non-European winner was in 1986 – Greg Lemond (USA)
- In the first few decades of the race, there was a much wider gap between the entrants and the finishers. For instance, in 1928 there 162 entrants, but only 41 finished. However, comparing recent times, in 2016 there were 198 entrants and 174 finishers.

Screenshot of the visualization:



Visual Encoding:

| <u>Data</u> | <u>Data Type</u> | <u>Encoding</u> | <u>Description</u> |
|----------------------|------------------|-----------------|---|
| Year | Quantitative | position | Position on the x and y axis represents the year of the event |
| Finishers | Quantitative | radius | Radius of the shaded grey circle represent total finishers of the event |
| Entrants | Quantitative | radius | Radius of the outer circle represent total entrants of the event |
| Winner | Categorical | position | The central circle for a given (x,y) position gives the winner of the event for that year |
| Winner's Nationality | Categorical | color | Each nationality has a unique color |

Link: <https://ravneetkaur2159.github.io/decodingTourDeFrance/>