IPL VISUALISATION

By Ankita Divya
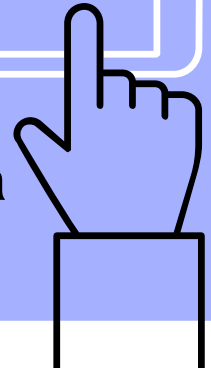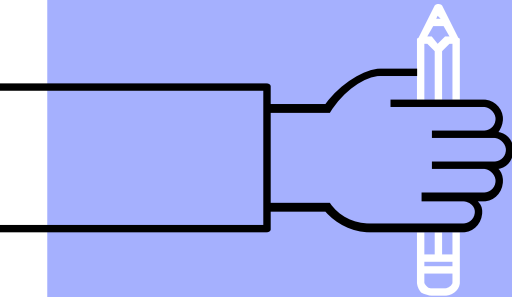
PROBLEM STATEMENT

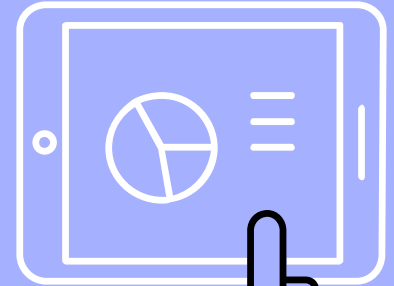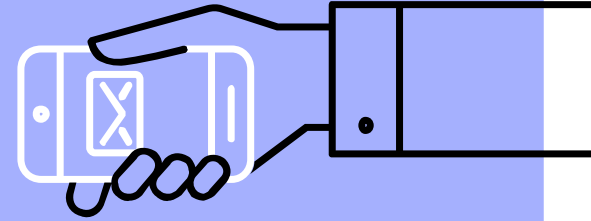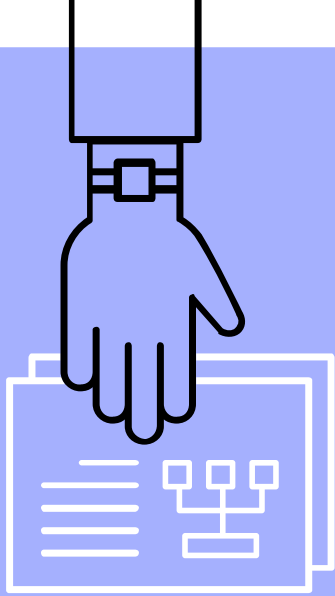➔ This visual representations aims to create an infographic for a newsletter for The Indian Premier League highlights which was founded in 2008 and is held every year.

➔ It sees participation from both national and international players, and eight teams representing eight Indian cities compete with each other in a double round-robin format in the league stages, which are followed by playoffs.
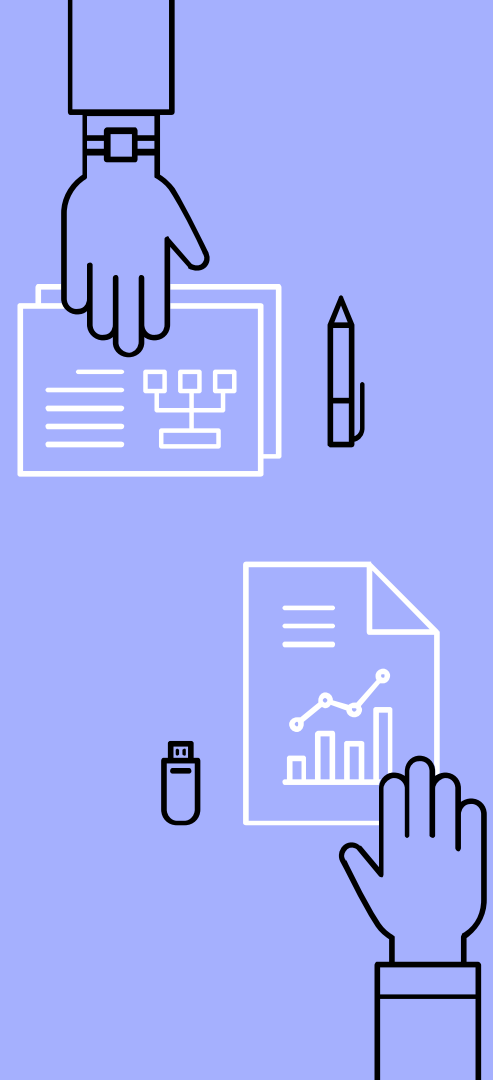
Modularizing the Problem statement
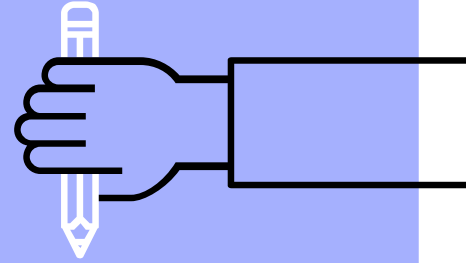
Dividing the overall insights of IPL into several categories.
- Match Statistics
- Player Statistics
- Team Statistics

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Match-wise Analysis
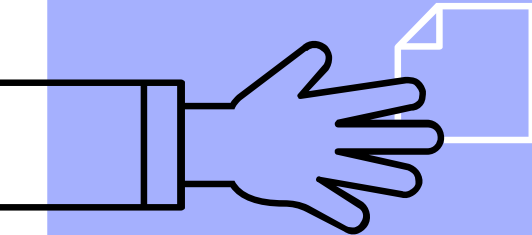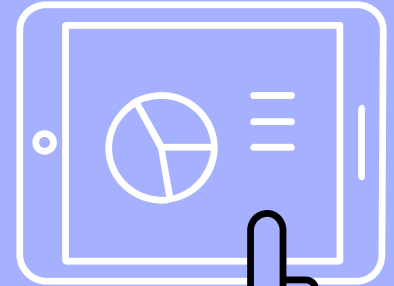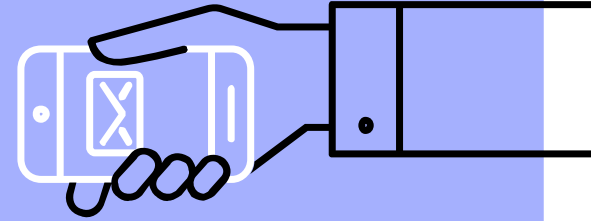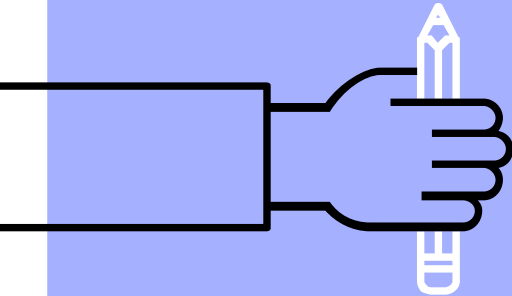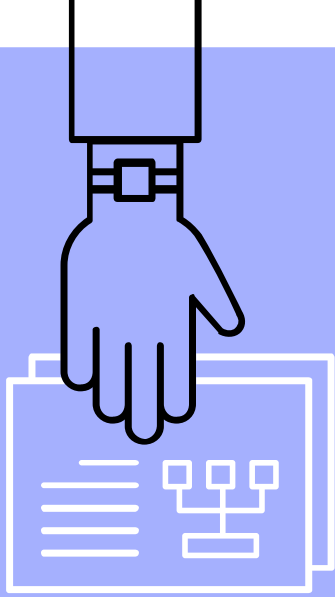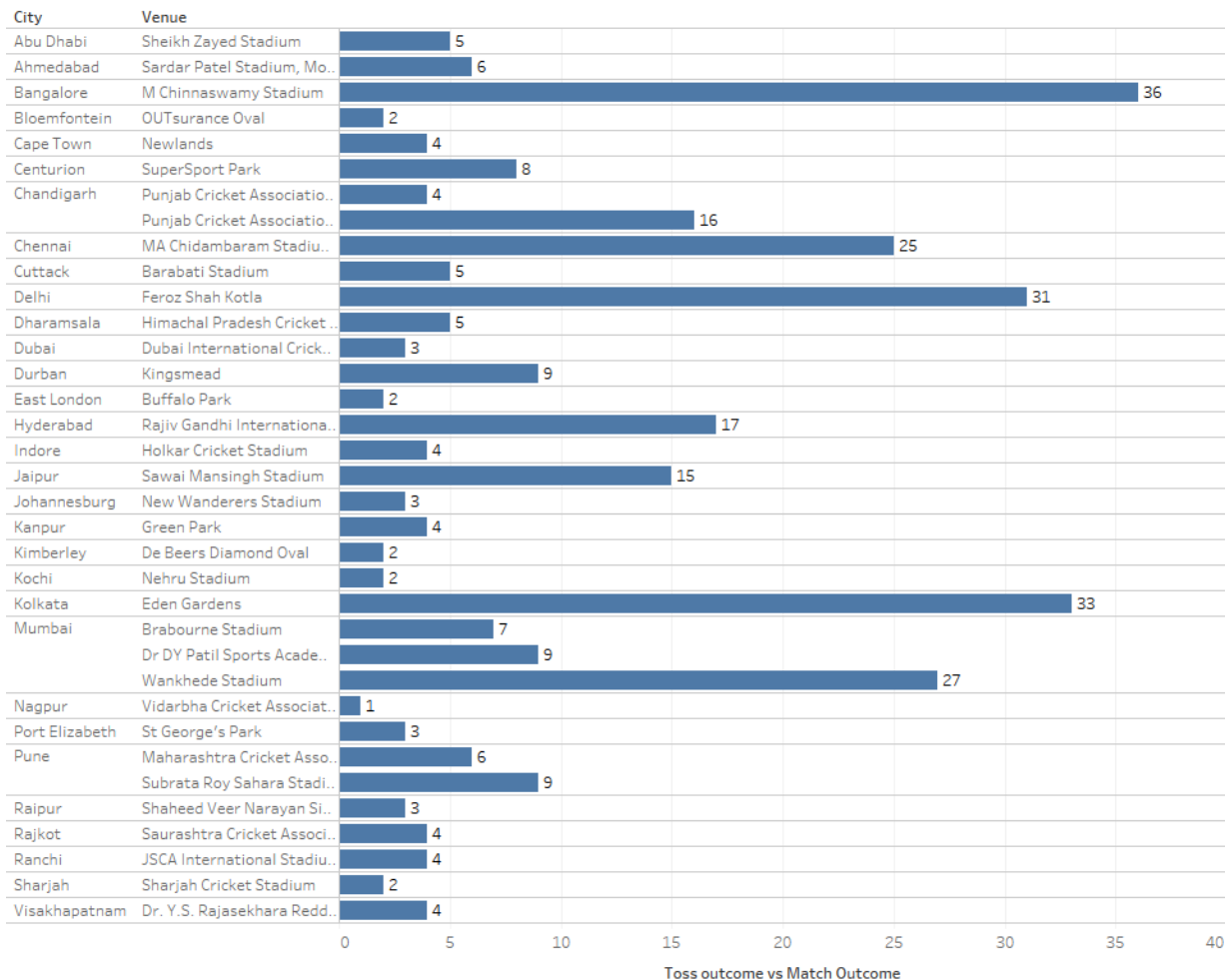
Toss outcome vs Match outcome

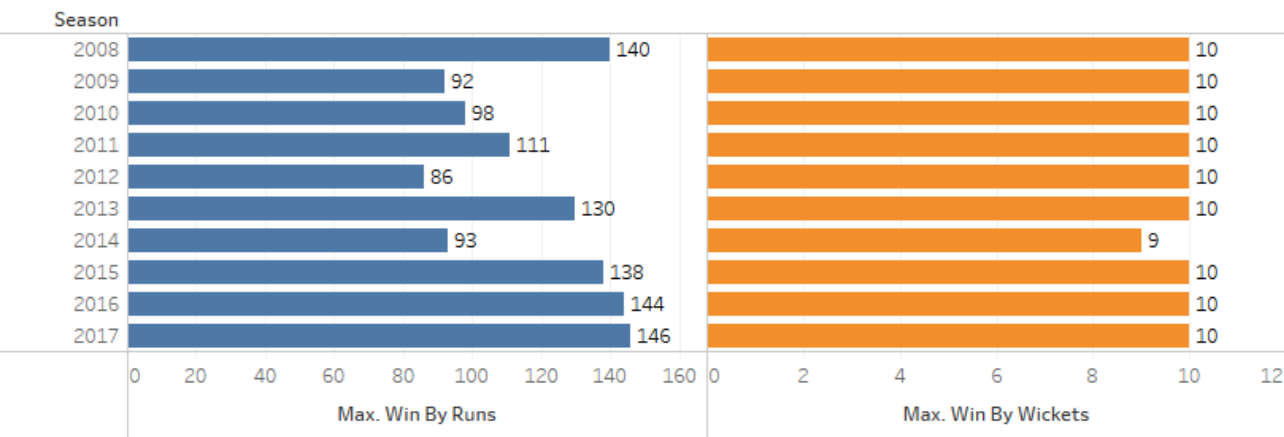| City	Venue	Toss outcome vs Match Outcome
Abu Dhabi	Sheikh Zayed Stadium	5
Ahmedabad	Sardar Patel Stadium, Mo..	6
Bangalore	M Chinnaswamy Stadium	36
Bloemfontein	OUTsurance Oval	2
Cape Town	Newlands	4
Centurion	SuperSport Park	8
Chandigarh	Punjab Cricket Associatio..	4
	Punjab Cricket Associatio..	16
Chennai	MA Chidambaram Stadiu..	25
Cuttack	Barabati Stadium	5
Delhi	Feroz Shah Kotla	31
Dharamsala	Himachal Pradesh Cricket ..	5
Dubai	Dubai International Crick..	3
Durban	Kingsmead	9
East London	Buffalo Park	2
Hyderabad	Rajiv Gandhi Internationa..	17
Indore	Holkar Cricket Stadium	4
Jaipur	Sawai Mansingh Stadium	15
Johannesburg	New Wanderers Stadium	3
Kanpur	Green Park	4
Kimberley	De Beers Diamond Oval	2
Kochi	Nehru Stadium	2
Kolkata	Eden Gardens	33
Mumbai	Brabourne Stadium	7
	Dr DY Patil Sports Acade..	9
	Wankhede Stadium	27
Nagpur	Vidarbha Cricket Associat..	1
Port Elizabeth	St George's Park	3
Pune	Maharashtra Cricket Asso..	6
	Subrata Roy Sahara Stadi..	9
Raipur	Shaheed Veer Narayan Si..	3
Rajkot	Saurashtra Cricket Associ..	4
Ranchi	JSCA International Stadiu..	4
Sharjah	Sharjah Cricket Stadium	2
Visakhapatnam	Dr. Y.S. Rajasekhara Redd..	4

Toss outcome vs Match Outcome

Sum of Toss outcome vs Match Outcome for each Venue broken down by City. The marks are labelled by sum of Toss outcome vs Match Outcome.

Toss outcome vs Match outcome

- The highest number of winners of toss and match both is seen in Bangalore, M Chinnaswamy stadium which is 36.
- This is followed by Eden gardens, Kolkata at 33.
- The lowest toss outcome vs match outcome is 1 at Nagpur, Vidarbha cricket Association.
- The toss winner and match winner is 2 for :
  - 1] Bloemfontein
  - 2] East London
  - 3] Kimberley
  - 4] Kochi
  - 5] Sharjah

Biggest wins by runs & by wickets for each seasons

- From the graph we can see that In 2007, 146 matches were won by runs followed by the trend in 2008 where 140 matches were won by runs

- For all most all the years total matches won by wicket were approaximately 10 except in 2014 where only 9 matches were one by wickets

- Lowest number of matches which were won by runs happened in 2012 and 2009 having 86 and 92 matches won respectively

- We could conclude that there are more number of matches won by runs than the number of matches which are won by wickets.

Highest totals (across all the seasons)

2013 263	2008 240	2014 231	2017 230
2016 248	2015 235	2012 222	
2010 246	2011 232	2009 211	
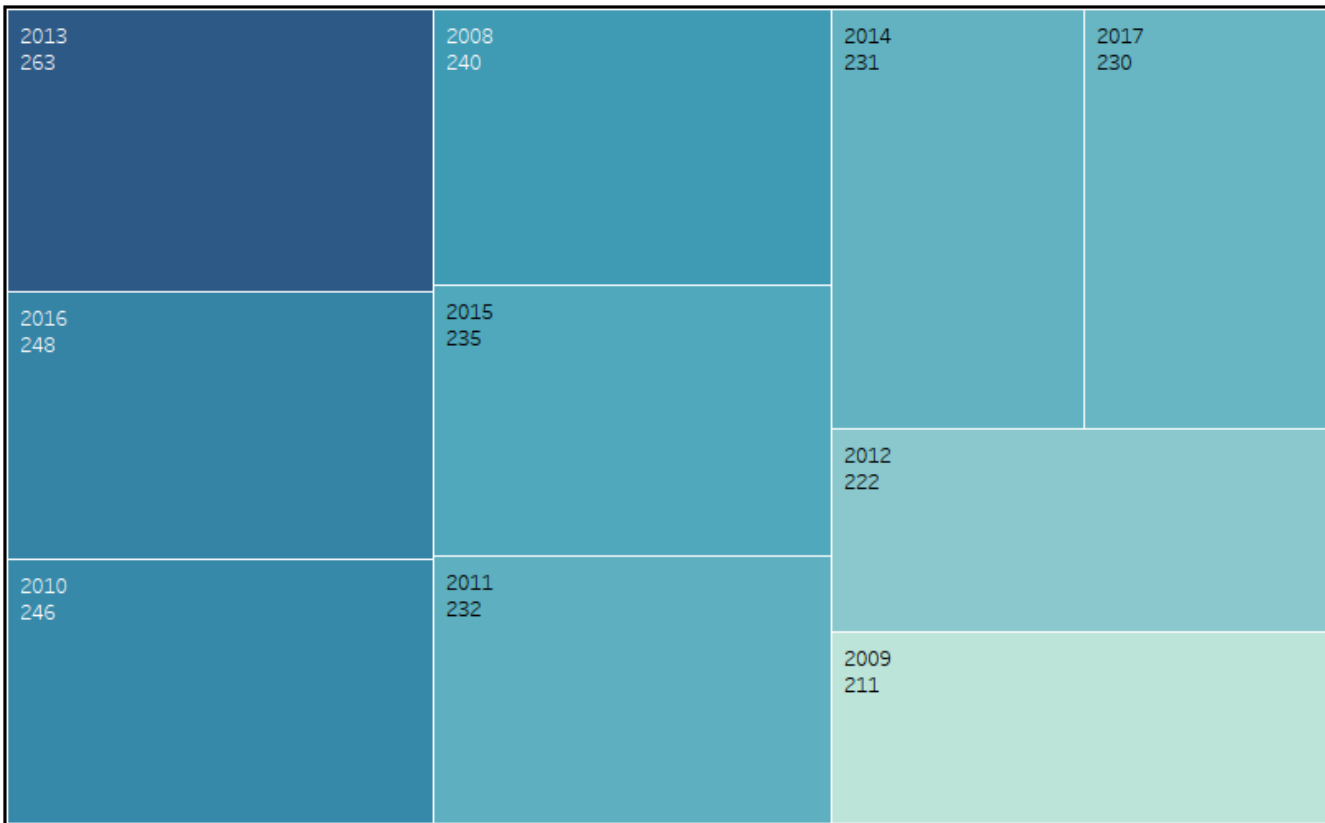
Season and sum of Total runs by season. Colour shows sum of Total runs by season. Size shows sum of Total runs by season. The marks are labelled by Season and sum of Total runs by season.
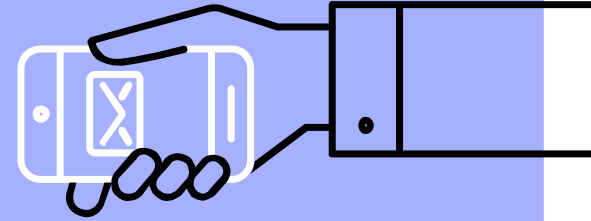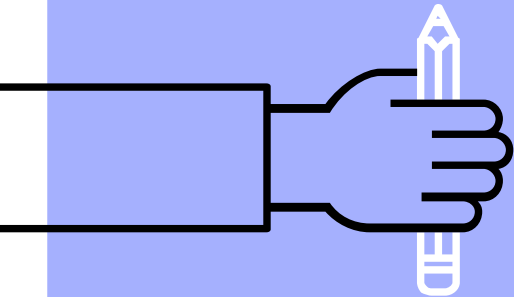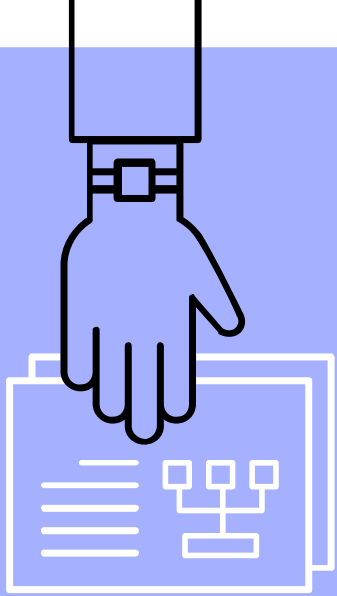
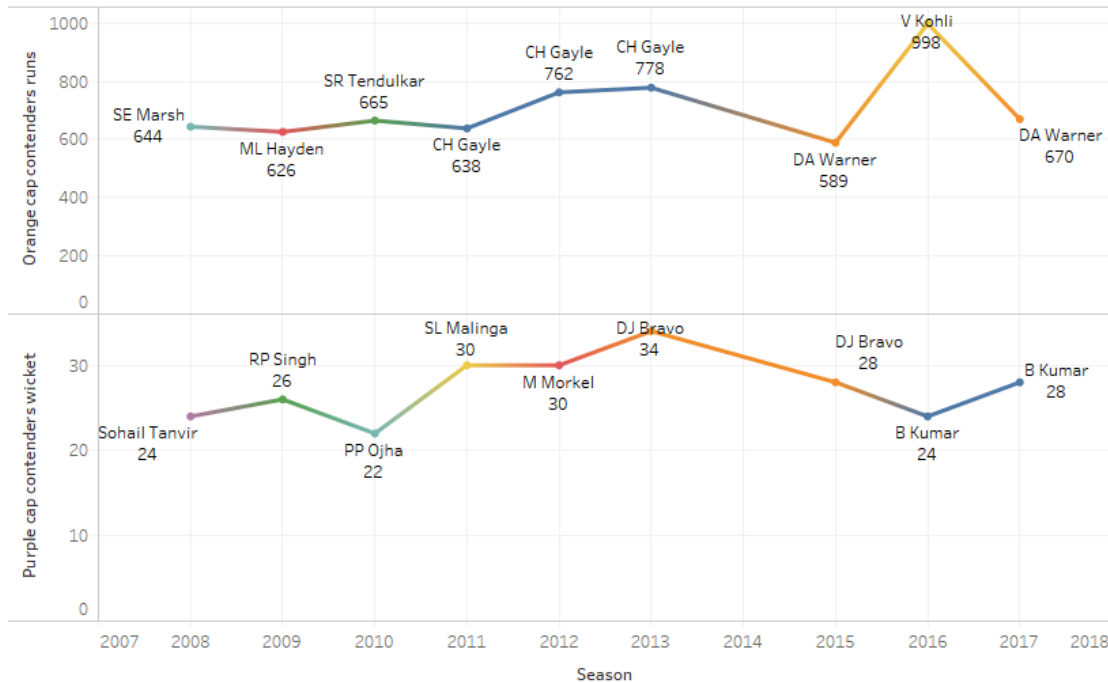Total runs by season

211   263

- From the graph we can see that the highest runs across all seasons were score in 2013 which is of 263 runs

- we can also visualize that the lowest runs across all seasons were score in 2009 which is of 211 runs

- On an average 237 runs were scored on every season being the range from 211 to 263
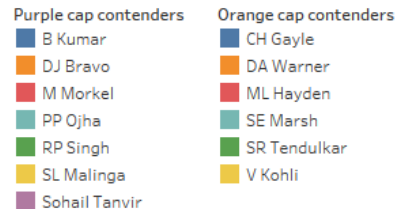
Player-wise Analysis
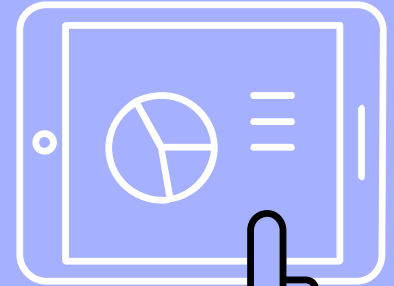
Orange and Purple cap

Orange Cap contenders - The batsmen who have scored the maximum number of runs in a particular season.

Purple Cap contenders - The bowlers who have taken the maximum number of wickets in a particular season.

- As seen in the previous plot, the highest runs scored among all the Orange cap contenders was by Virat Kohli while the lowest among the orange cap contenders is DA Warner

- Also, among the purple cap contenders the highest number of wickets taken was by DJ Bravo and lowest number of wickets taken among all the purple cap contenders was by PP Ojha
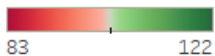
Most boundaries every season
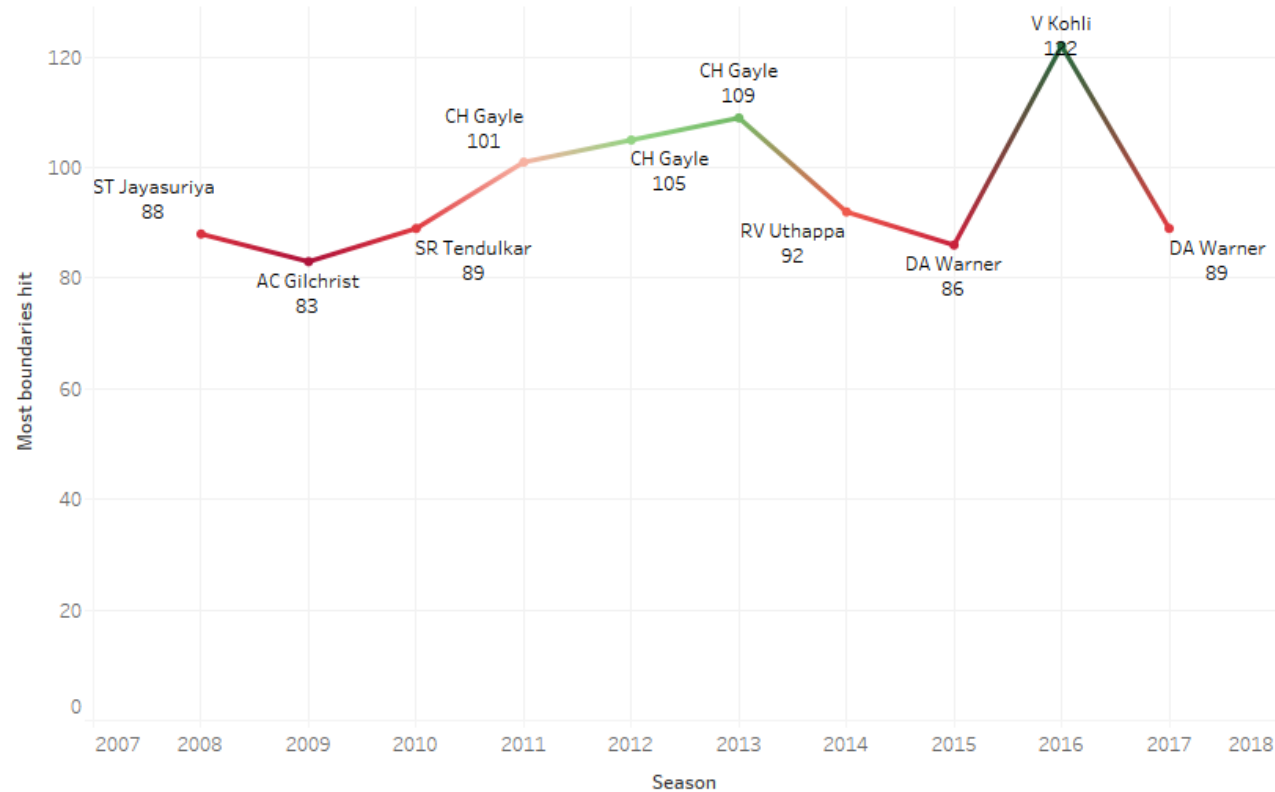
Batsmen who have hit the most number of fours and sixes (per season)

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- As seen in the previous plot, the most boundary hit by any player is 122 by Virat Kohli and least is by AC Gilchrist which is 83

- CH Gayle was the only batman who has hit most number of boundaries in three consecutive year starting from 2011 till 2013 with 101, 105 and 109 number of boundaries.

Most boundaries overall

| 576 SK Raina | 561 DA Warner | 542 G Gambhir | 502 RV Uthappa |
| 563 CH Gayle | 544 V Kohli | 527 RG Sharma | 472 S Dhawan |

Sum of Most boundaries overall runs and Batsman. Colour shows sum of Most boundaries overall runs. Size shows sum of Most boundaries overall runs. The marks are labelled by sum of Most boundaries overall runs and Batsman. The view is filtered on Batsman, which keeps 8 of 1,029 members.

Most boundaries overal..

472   576

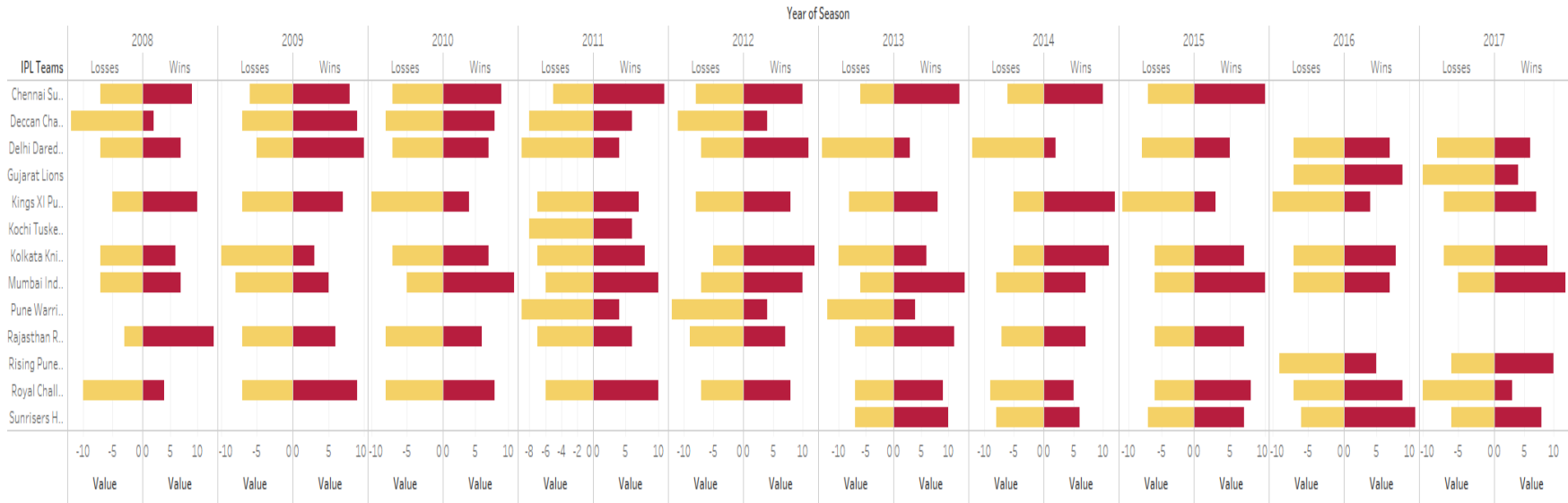Batsmen who have hit the most number of fours and sixes (overall)

- As seen in the previous plot, the most boundary hit by any player overall is 576 by SK Raina and least among top 8 is by S Dhawan which is 472

- CH Gayle and DA Warner scored approximately similar number of boundaries having 563 and 561 number of boundaries respectively overall in all the seasons.

Team-wise Analysis
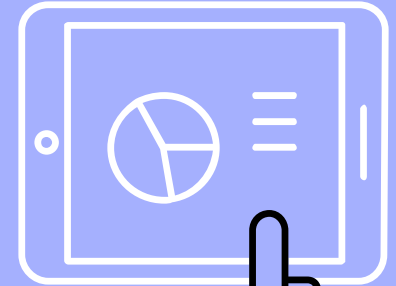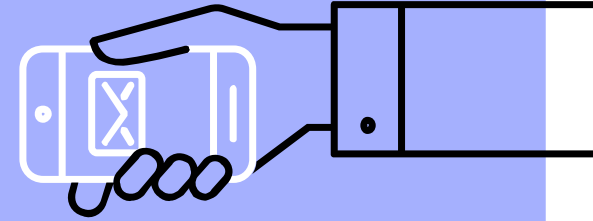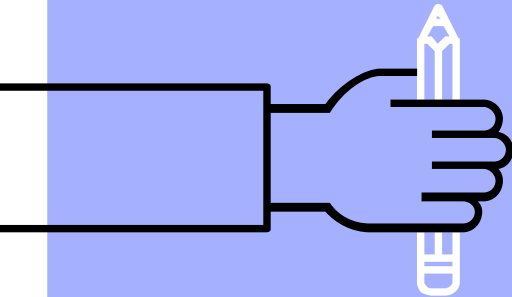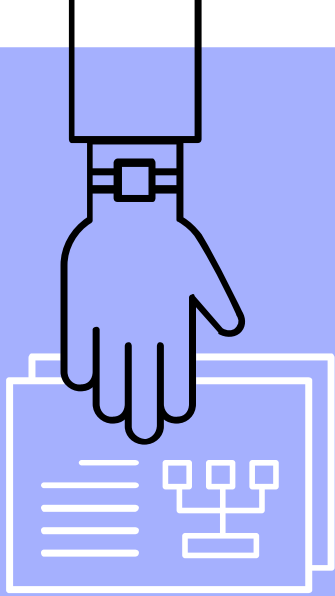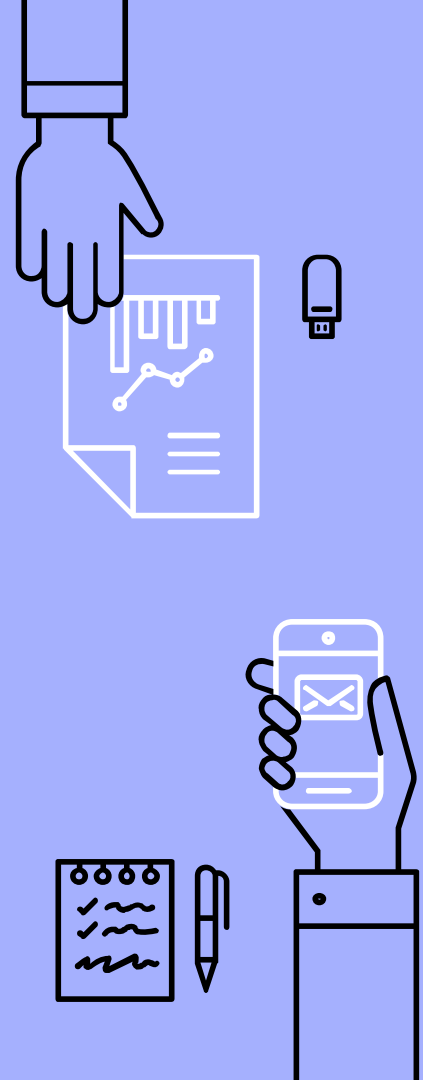
Season wise Team Performance
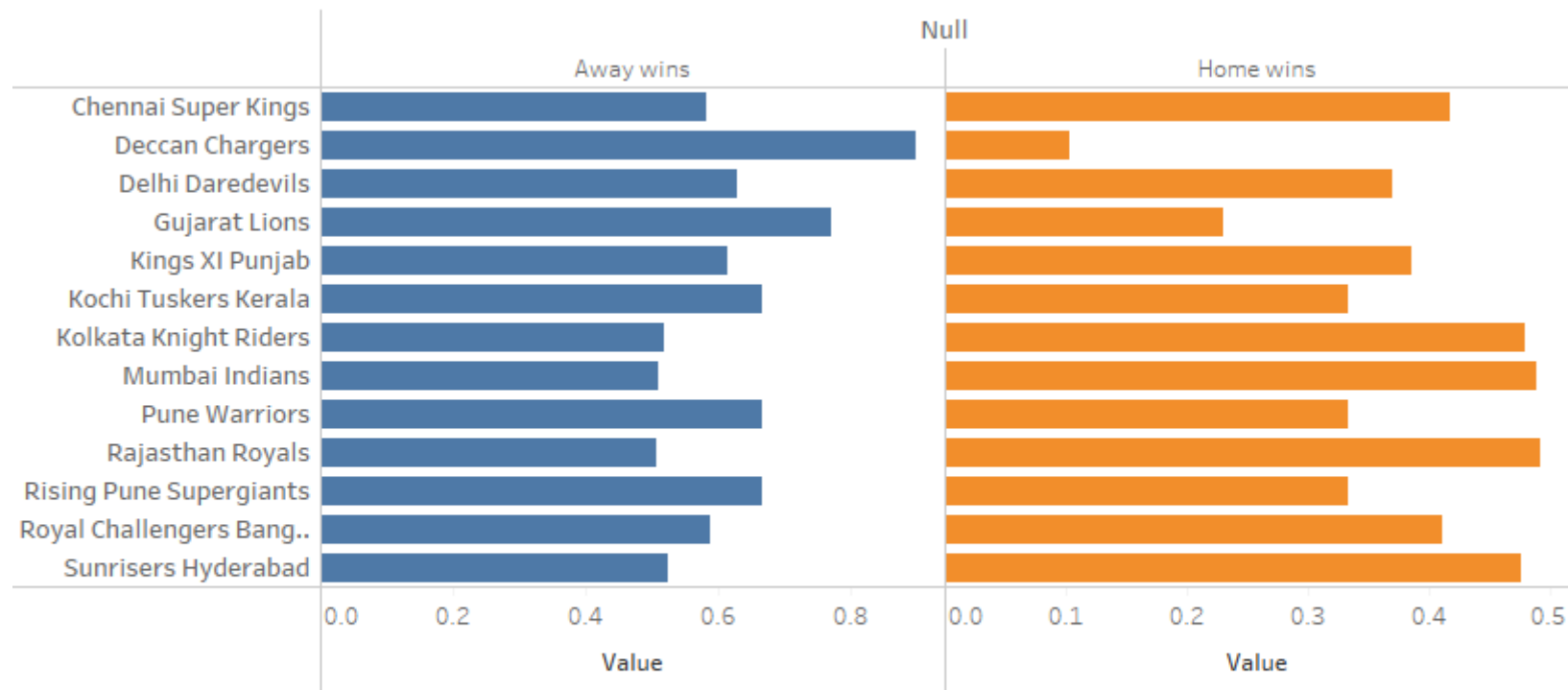
- As seen in the previous plot, the chennai Super Kings have performed really well in all over the seasons having most wins.

Home vs Away Wins each season

Away wins and Home wins for each Teams broken down by season Year. Colour shows details about Away wins and Home wins.

Measure Names
- Away wins
- Home wins

- As seen in the previous plot, there are more home wins than away wins. Teams like Chennai Super Kings, Kolkata knight riders, Mumbai Indians and rajasthan royals have shown similar trends.
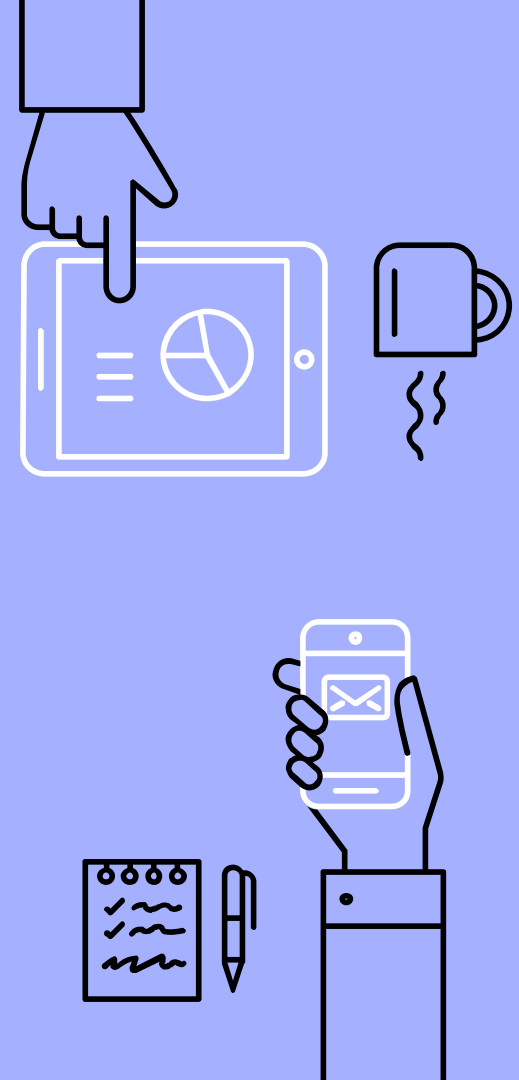
Summarizing the Different aspects

Toss

Winning of toss impacts the Match outcome. We saw that if the toss is won chances of winning the match increases.

Win by runs

Most of the wins were won because of highest runs and very less number of matches were won by wickets
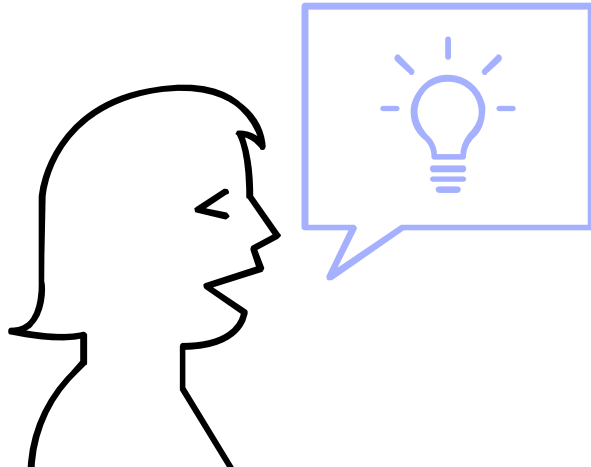
Home Wins

The trends for the winning of match also illustrated that if the team is playing in its home ground chances of winning the match increases

CONCLUSION...

- Winning of toss impacts the Match outcome. We saw that if the toss is won chances of winning the match increases.

- Most of the wins were won because of highest runs and very less number of matches were won by wickets

- The trends for the winning of match also illustrated that if the team playing in its home ground chances of winning the match increase

THANKS!

IPL Dataset available at:

https://learn.upgrad.com/v/course/834/sessi
on/155495/segment/834138