IPL Visualization Assignment

Anishma Kathpal
+91 70839 82723
anishmakathpal1503@gmail.com

Contents

Problem Statement

Dashboard 1: Match Statistics
- Toss outcome vs Match outcome (for each Ground/Venue)
- Biggest wins (by runs and by wicket)
- Highest totals (across all the seasons)

Dashboard 2: Player Statistics
- 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)
- Batsmen who have hit the most number of fours and sixes (per season and overall)

Dashboard 3: Team Statistics
- Season-wise team performance (wins vs losses)
- Win %age (home vs away)

Problem Statement

You work as a data analyst at IFP, a nationally recognized news agency, which is based out of New Delhi, and provides news reports and feeds to magazines, newspapers and TV broadcasters all over the country. The Sports Editor of the agency has approached you to build a Tableau dashboard of IPL statistics over the years since its inception in order to create an infographic for a newsletter that their team is working on. For this newsletter, in some cases, they will use the visual representations as you have created in Tableau directly for their infographic, and in a few other cases, they will use important statistics after trying out the different filters and customizations that you have provided for interactivity. Therefore, you are expected to build an interactive dashboard in Tableau for this purpose.
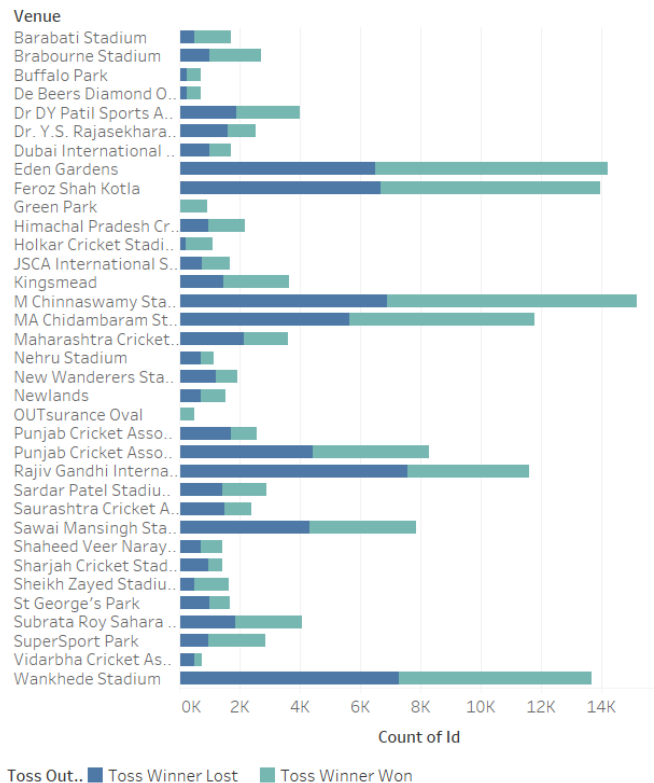
DATA SET
matches.csv - It contains match-level information for each and every match held in IPL from 2008 to 2017.
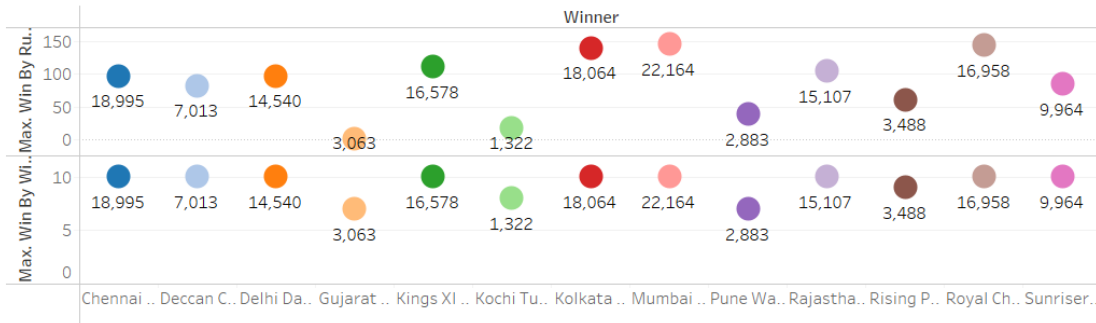**deliveries.csv** - It contains ball-by-ball information for each of the matches.
Combining the information in these two data sets, you will be creating an interactive dashboard that highlights some of the important statistics of IPL over the years.
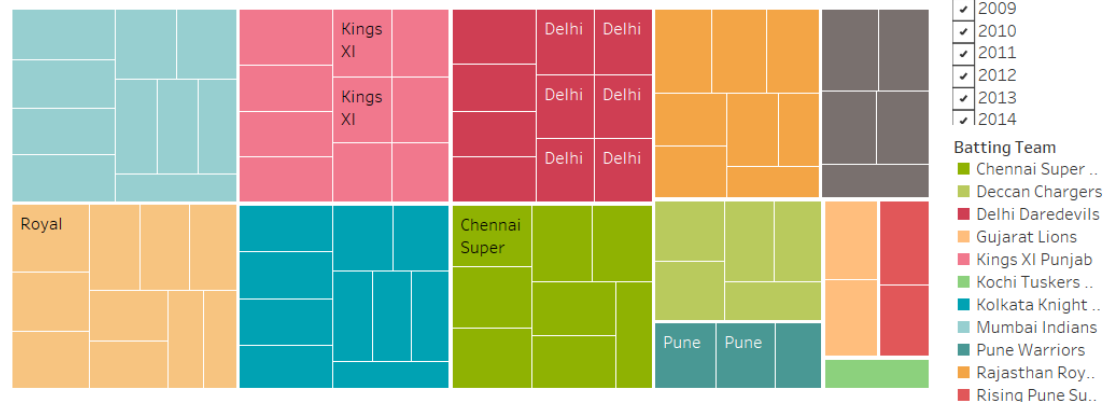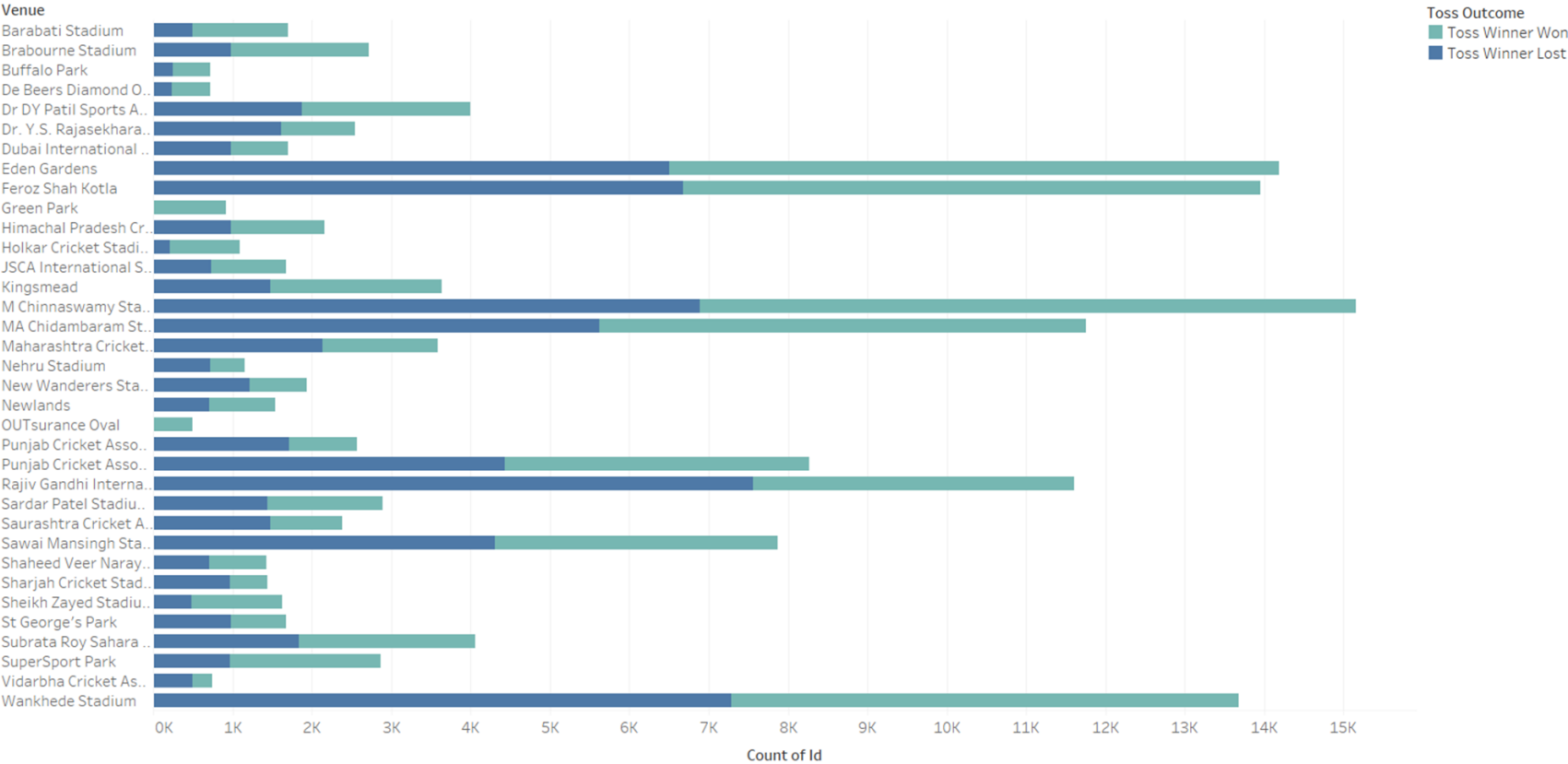
## Match Statistics

Toss Outcome Vs Match Outcome

Venue

Barabati Stadium
Brabourne Stadium
Buffalo Park
De Beers Diamond O..
Dr DY Patil Sports A..
Dr. Y.S. Rajasekhara..
Dubai International ..
Eden Gardens
Feroz Shah Kotla
Green Park
Himachal Pradesh Cr..
Holkar Cricket Stadi..
JSCA International S..
Kingsmead
M Chinnaswamy Sta..
MA Chidambaram St..
Maharashtra Cricket..
Nehru Stadium
New Wanderers Sta..
Newlands
OUTsurance Oval
Punjab Cricket Asso..
Punjab Cricket Asso..
Rajiv Gandhi Interna..
Sardar Patel Stadiu..
Saurashtra Cricket A..
Sawai Mansingh Sta..
Shaheed Veer Naray..
Sharjah Cricket Stad..
Sheikh Zayed Stadiu..
St George's Park
Subrata Roy Sahara ..
SuperSport Park
Vidarbha Cricket As..
Wankhede Stadium

0K   2K   4K   6K   8K   10K   12K   14K

Count of Id

Toss Out.. ▪ Toss Winner Lost ▪ Toss Winner Won

Biggest Wins

Winner

Max. Win By Wi.. Max. Win By Ru..

150
100
50
0

18,995   7,013   14,540   16,578   18,064   22,164   15,107   16,958
                          3,063   1,322   2,883   3,488   9,964

10

5

0

18,995   7,013   14,540   16,578   18,064   22,164   15,107   16,958
                          3,063   1,322   2,883   3,488   9,964

Chennai .. Deccan C.. Delhi Da.. Gujarat .. Kings XI .. Kochi Tu.. Kolkata .. Mumbai .. Pune Wa.. Rajastha.. Rising P.. Royal Ch.. Sunriser..

Highest Totals

Kings XI

Kings XI

Delhi   Delhi

Delhi   Delhi

Delhi   Delhi

Royal

Chennai
Super

Pune   Pune

Season
☑ 2008
☑ 2009
☑ 2010
☑ 2011
☑ 2012
☑ 2013
☑ 2014

Batting Team
▪ Chennai Super ..
▪ Deccan Chargers
▪ Delhi Daredevils
▪ Gujarat Lions
▪ Kings XI Punjab
▪ Kochi Tuskers ..
▪ Kolkata Knight ..
▪ Mumbai Indians
▪ Pune Warriors
▪ Rajasthan Roy..
▪ Rising Pune Su..

Toss Outcome Vs Match Outcome

Venue

Toss Outcome
- Toss Winner Won
- Toss Winner Lost

Count of Id for each Venue. Color shows details about Toss Outcome. The view is filtered on Venue, which keeps 35 of 35 members.

INSIGHTS
- Maximum Matches(15000+) were played in M Chinnaswamy Stadium, where Maximum Matches(8200+) where the team that won the toss won the match
- Maximum Matches(7500+) where the team that won the toss lost the match at Rajiv Gandhi International Stadium, Uppal
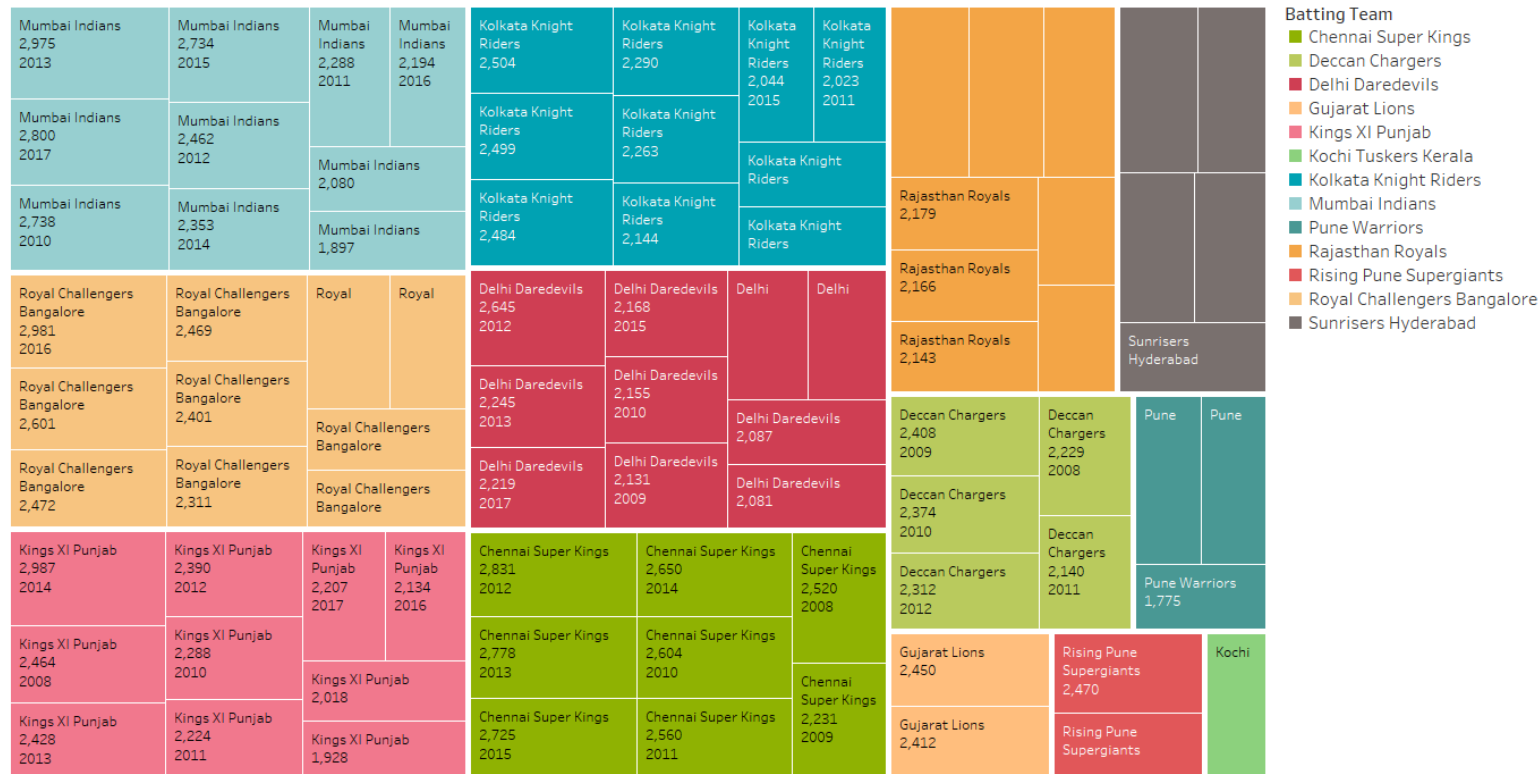- Least No. of Matches(500) were played in OUTsurance Oval

Biggest Wins
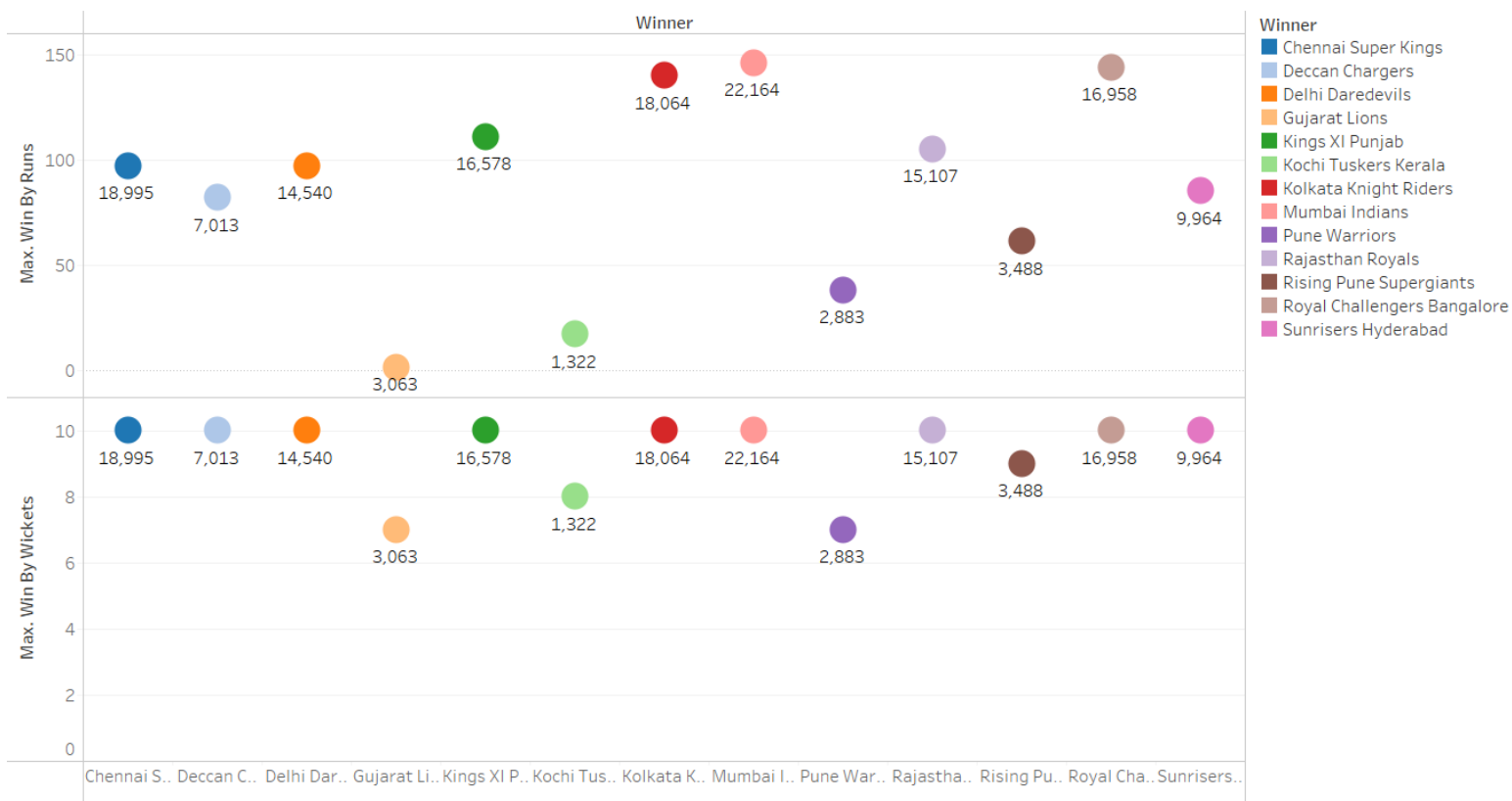
Maximum of Win By Runs and maximum of Win By Wickets for each Winner. Color shows details about Winner. The marks are labeled by count of Winner. The view is filtered on Winner, which excludes Null.

INSIGHTS
- Mumbai Indian has the highest win by runs with 146 runs and has won (22164)maximum number of matches(Throughout the IPL).
- Mumbai Indian, Royal Challengers Banglore and Kolkata Knight Riders are the TOP 3 teams to win by maximum runs – 146, 144 and 146 respectively
- Majority of the Teams have won by 10 wickets.

Highest Totals

Mumbai Indians 2,975 2013	Mumbai Indians 2,734 2015	Mumbai Indians 2,288 2011	Mumbai Indians 2,194 2016
Mumbai Indians 2,800 2017	Mumbai Indians 2,462 2012	Mumbai Indians 2,080	
Mumbai Indians 2,738 2010	Mumbai Indians 2,353 2014	Mumbai Indians 1,897	

Kolkata Knight Riders 2,504	Kolkata Knight Riders 2,290	Kolkata Knight Riders 2,044 2015 / Kolkata Knight Riders 2,023 2011
Kolkata Knight Riders 2,499	Kolkata Knight Riders 2,263	Kolkata Knight Riders
Kolkata Knight Riders 2,484	Kolkata Knight Riders 2,144	Kolkata Knight Riders

Royal Challengers Bangalore 2,981 2016	Royal Challengers Bangalore 2,469	Royal	Royal
Royal Challengers Bangalore 2,601	Royal Challengers Bangalore 2,401	Royal Challengers Bangalore	
Royal Challengers Bangalore 2,472	Royal Challengers Bangalore 2,311	Royal Challengers Bangalore	

Delhi Daredevils 2,645 2012	Delhi Daredevils 2,168 2015	Delhi / Delhi
Delhi Daredevils 2,245 2013	Delhi Daredevils 2,155 2010	Delhi Daredevils 2,087
Delhi Daredevils 2,219 2017	Delhi Daredevils 2,131 2009	Delhi Daredevils 2,081

Kings XI Punjab 2,987 2014	Kings XI Punjab 2,390 2012	Kings XI Punjab 2,207 2017	Kings XI Punjab 2,134 2016
Kings XI Punjab 2,464 2008	Kings XI Punjab 2,288 2010	Kings XI Punjab 2,018	
Kings XI Punjab 2,428 2013	Kings XI Punjab 2,224 2011	Kings XI Punjab 1,928	

Chennai Super Kings 2,831 2012	Chennai Super Kings 2,650 2014	Chennai Super Kings 2,520 2008
Chennai Super Kings 2,778 2013	Chennai Super Kings 2,604 2010	Chennai Super Kings 2,231 2009
Chennai Super Kings 2,725 2015	Chennai Super Kings 2,560 2011	

Rajasthan Royals 2,179
Rajasthan Royals 2,166
Rajasthan Royals 2,143

| Rajasthan Royals 2,168 2015 |

Deccan Chargers 2,408 2009	Deccan Chargers 2,229 2008
Deccan Chargers 2,374 2010	Deccan Chargers 2,140 2011
Deccan Chargers 2,312 2012	

Gujarat Lions 2,450
Gujarat Lions 2,412

Rising Pune Supergiants 2,470
Rising Pune Supergiants

Sunrisers Hyderabad	
Sunrisers Hyderabad	

Pune	Pune
Pune Warriors 1,775	

| Kochi |

Batting Team
- Chennai Super Kings
- Deccan Chargers
- Delhi Daredevils
- Gujarat Lions
- Kings XI Punjab
- Kochi Tuskers Kerala
- Kolkata Knight Riders
- Mumbai Indians
- Pune Warriors
- Rajasthan Royals
- Rising Pune Supergiants
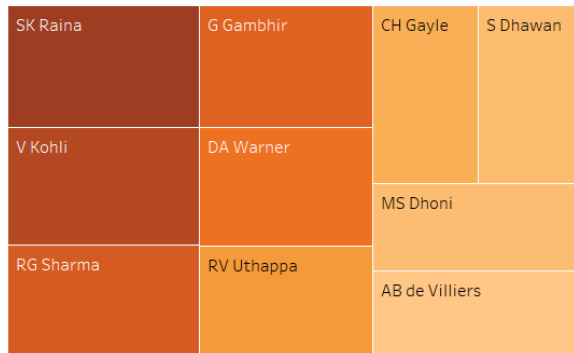- Royal Challengers Bangalore
- Sunrisers Hyderabad

Batting Team, sum of Total Runs and Season. Color shows details about Batting Team. Size shows sum of Total Runs. The marks are labeled by Batting Team, sum of Total Runs and Season. The data is filtered on Season, which keeps 10 of 10 members.
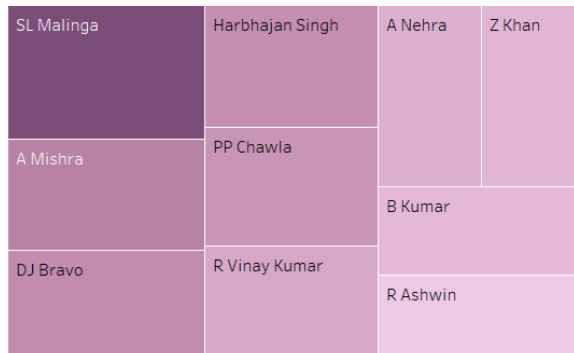
INSIGHTS
- Kings XI Punjab has scored maximum total runs of 2987 through out the IPL.
- Mumbai Indians, Royal Challengers Banglore and Kings XI Punjab are the top teams to score maximum runs through out the IPL seansons
- Kochi Tuskers Kerala have played for 1 Season of IPL(2011)
- Pune was introduced twice throughout the IPL as Pune Warriors (2011 – 2013) and Rising Pune Supergiants (2016-2017)
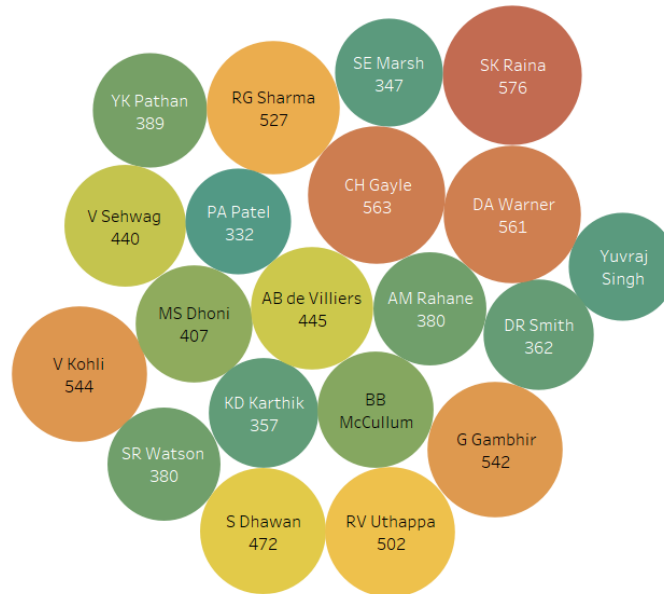
Player Statistics

Orange Cap Contenders

SK Raina	G Gambhir	CH Gayle	S Dhawan
V Kohli	DA Warner	MS Dhoni	
RG Sharma	RV Uthappa	AB de Villiers	

Purple Cap Contenders

SL Malinga	Harbhajan Singh	A Nehra	Z Khan
A Mishra	PP Chawla	B Kumar	
DJ Bravo	R Vinay Kumar	R Ashwin	

Season
2008 to 2017

Batsmen who have hit the most number of fours and sixes

Batsman Runs

3,486   4,548

- YK Pathan 389
- SE Marsh 347
- SK Raina 576
- RG Sharma 527
- V Sehwag 440
- PA Patel 332
- CH Gayle 563
- DA Warner 561
- Yuvraj Singh
- MS Dhoni 407
- AB de Villiers 445
- AM Rahane 380
- DR Smith 362
- V Kohli 544
- KD Karthik 357
- BB McCullum
- G Gambhir 542
- SR Watson 380
- S Dhawan 472
- RV Uthappa 502

Season

Count of Playe..

110   170

Season
2008 to 2017

Batsman

- ✔ A Ashish Reddy
- ✔ A Chandila
- ✔ A Chopra
- ✔ A Choudhary
- ✔ A Flintoff
- ✔ A Kumble
- ✔ A Mishra
- ✔ A Mithun
- ✔ A Mukund
- ✔ A Nehra
- ✔ A Singh
- ✔ A Symonds
- ✔ A Uniyal
- ✔ A Zampa
- ✔ AA Bilakhia
- ✔ AA Chavan
- ✔ AA Jhunjhunwala
- ✔ AA Noffke
- ✔ AB Agarkar
- ✔ AB Barath
- ✔ AB de Villiers
- ✔ AB Dinda
- ✔ AB McDonald
- ✔ Abdur Razzak
- ✔ AC Blizzard
- ✔ AC Gilchrist
- ✔ AC Thomas
- ✔ AC Voges
- ✔ AD Mascarenhas
- ✔ AD Mathews

Limit
Top 20 by SUM([4s and 6s])

4s and 6s
332   576

Orange Cap Contenders
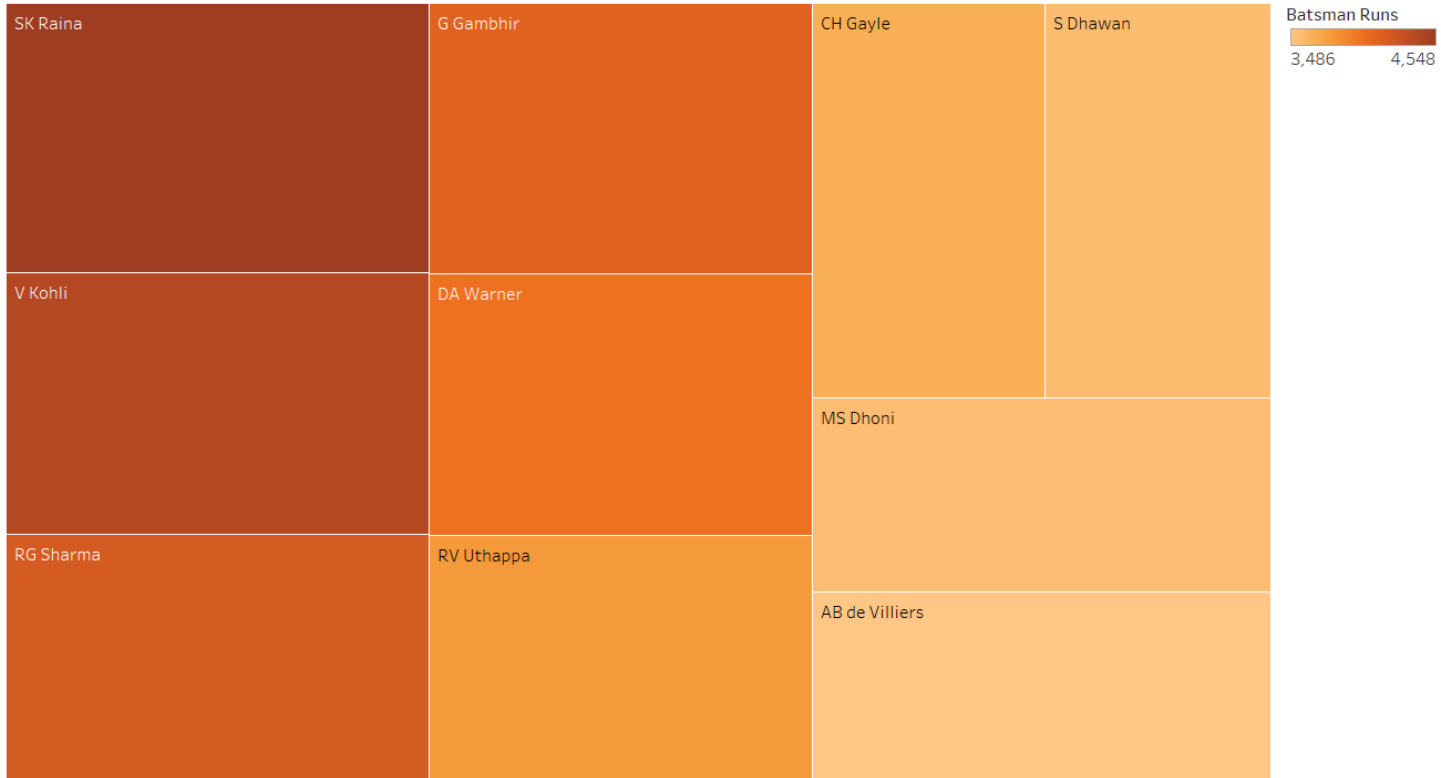
Batsman. Color shows sum of Batsman Runs. Size shows sum of Batsman Runs. The marks are labeled by Batsman. The data is filtered on Season, which ranges from 2008 to 2017. The view is filtered on Batsman, which keeps 10 of 461 members.

INSIGHTS

SK Raina
(throughout the IPL)

SK Raina
(2008, 2010)

AB de Villers
(2009)

CH Gayle
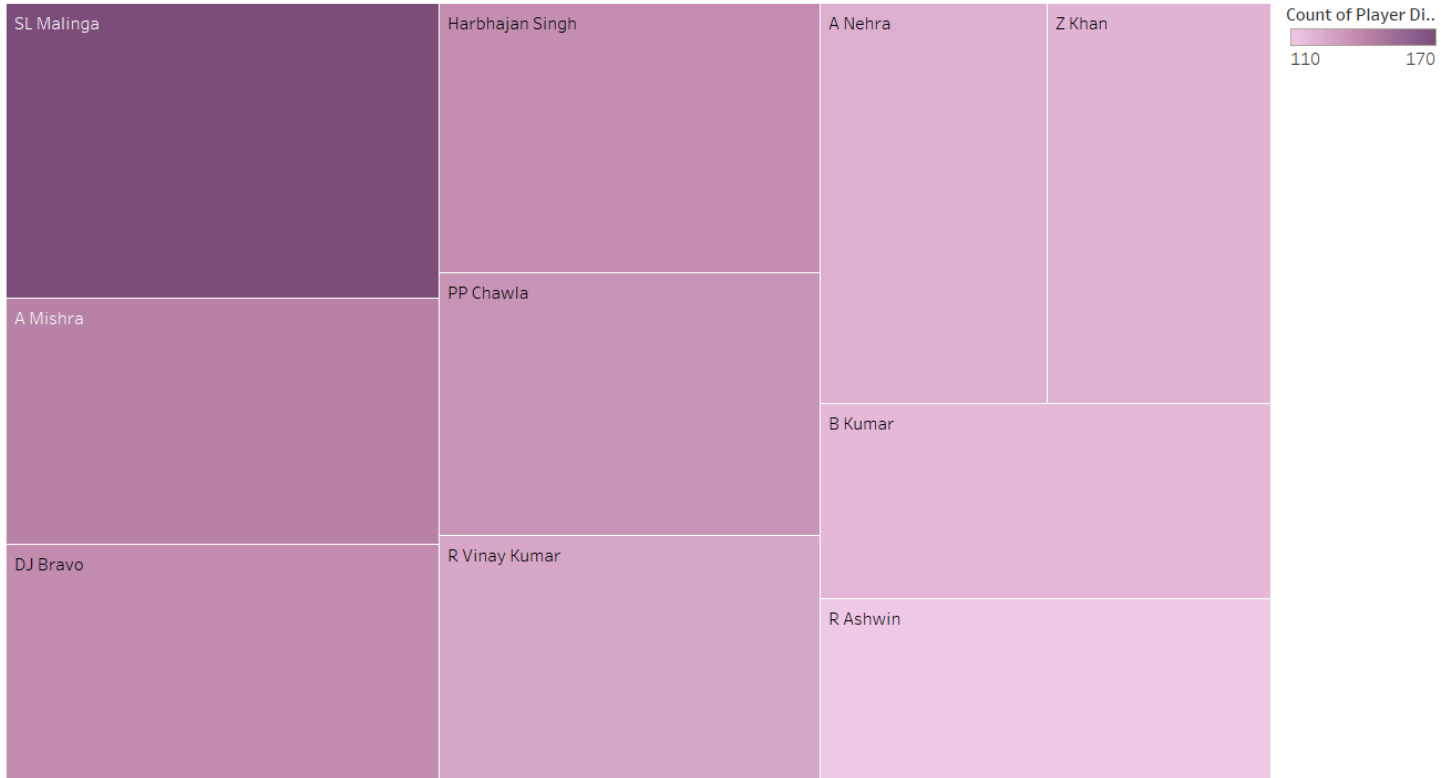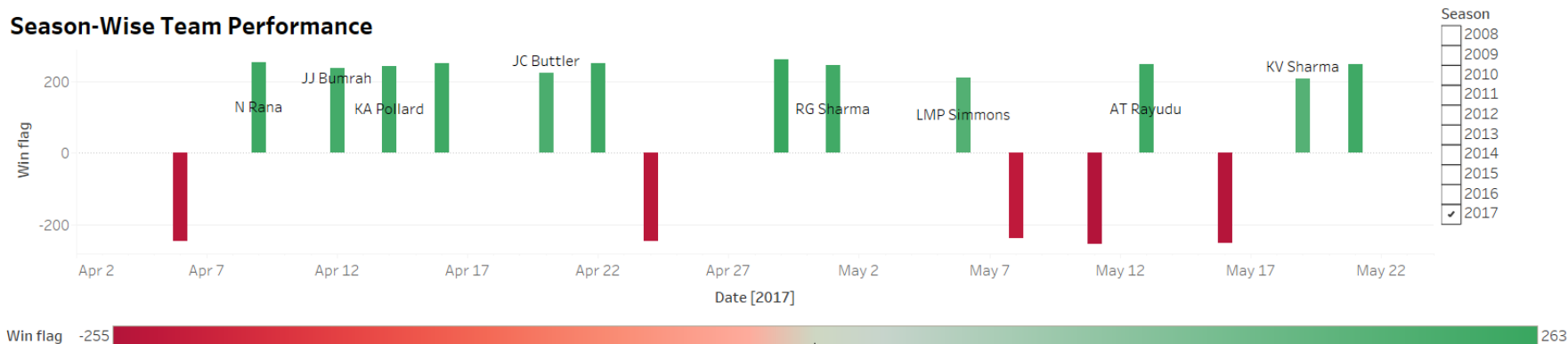(2011, 2012, 2013)

RV Uthappa
(2014)

DA Warner
(2015, 2017)

V Kohli
(2016)

Purple Cap Contenders

SL Malinga

Harbhajan Singh

A Nehra

Z Khan

A Mishra

PP Chawla

B Kumar

DJ Bravo

R Vinay Kumar

R Ashwin

Count of Player Di..
110   170

Bowler. Color shows count of Player Dismissed. Size shows count of Player Dismissed. The marks are labeled by Bowler. The data is filtered on Season, which keeps 10 of 10 members. The view is filtered on Bowler, which has multiple members selected.

INSIGHTS

SL Malinga
(throughout the IPL, 2011, 2012)

PP Chawla
(2008)

A Nehra
(2009)

A Mishra
(2010)

DJ Bravo
(2013, 2015)

B Kumar
(2014, 2016, 2017)

Batsmen who have hit the most number of fours and sixes
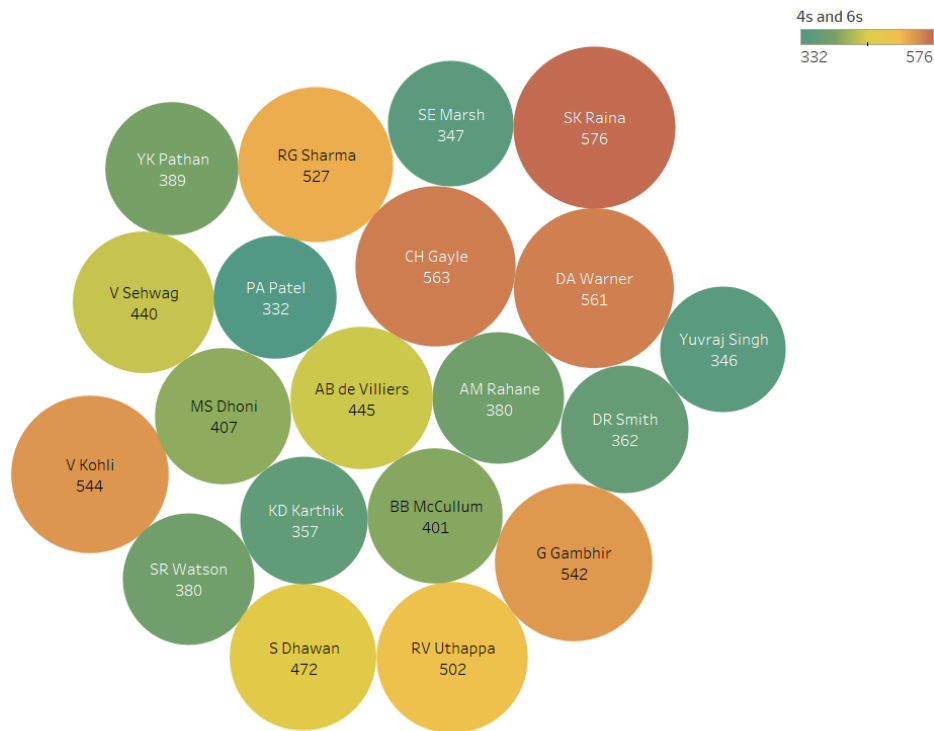
4s and 6s
332 — 576

Batsman and sum of 4s and 6s. Color shows sum of 4s and 6s. Size shows sum of 4s and 6s. The marks are labeled by Batsman and sum of 4s and 6s. The data is filtered on Season, which ranges from 2008 to 2017. The view is filtered on Batsman, which keeps 20 of 461 members.

INSIGHTS
- SK Raina has scored the maximum number of 4s & 6s
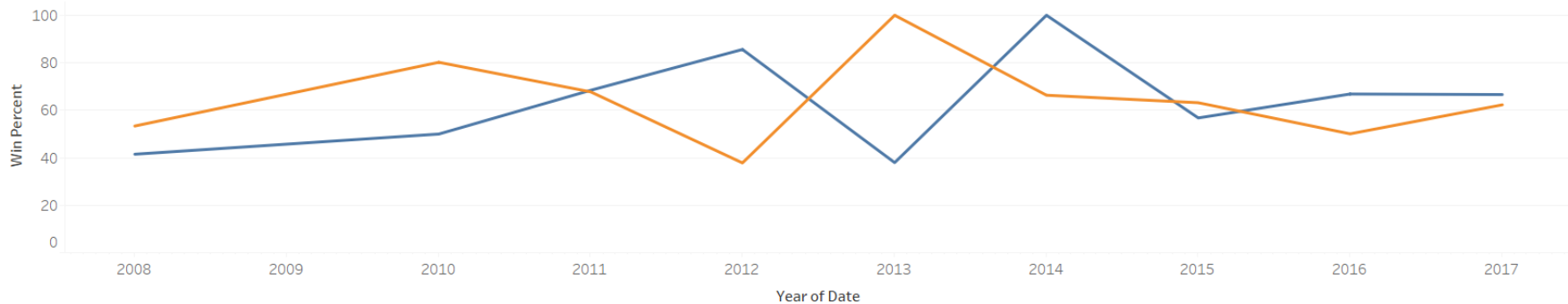- SK Raina, CH Gayle and DA Warner are the top 3 batsmen who have scored the most number of 4s and 6s

Team Statistics

Teams   Mumbai Indians
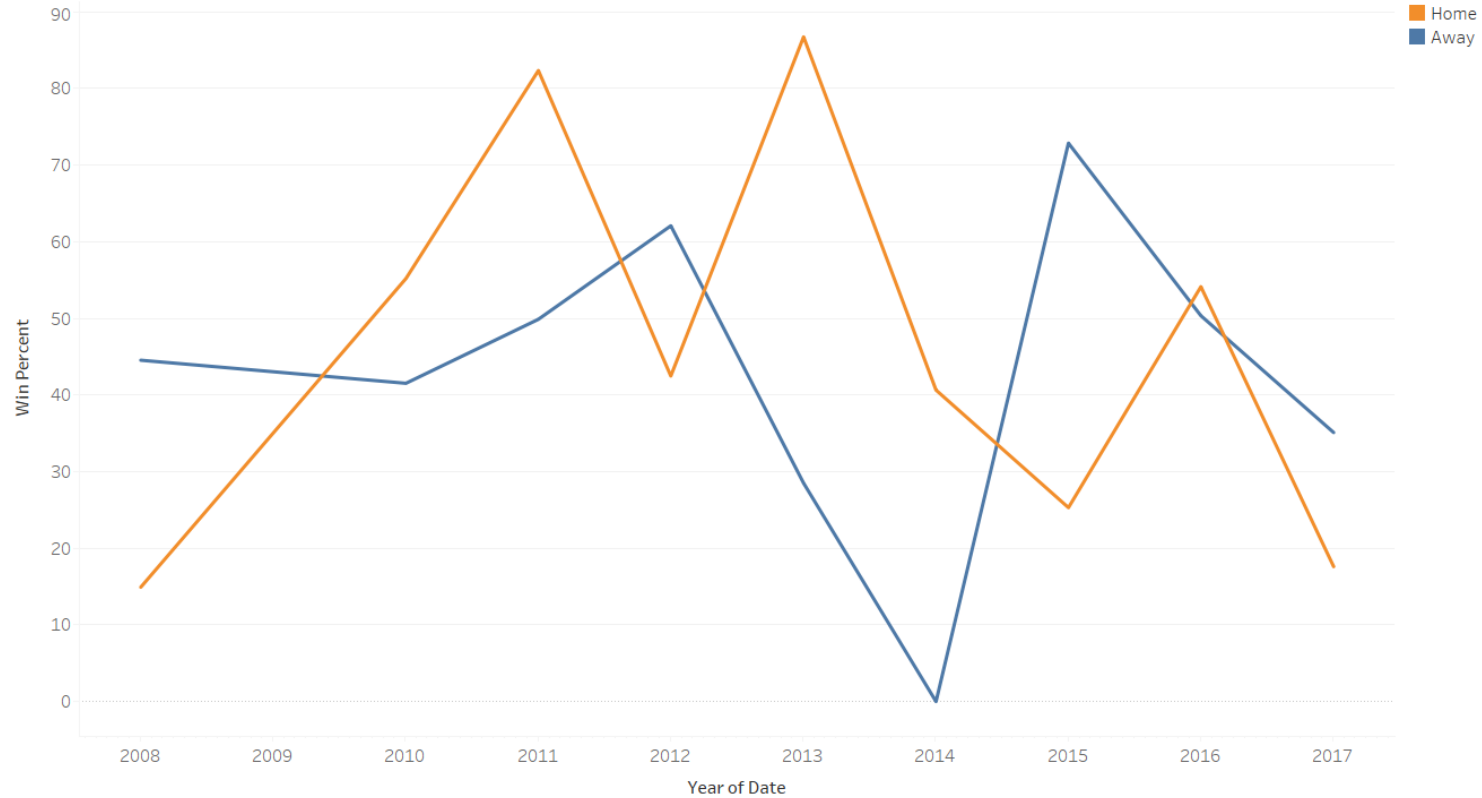
Season-Wise Team Performance

Win %age (Home vs Away)

Season-Wise Team Performance

The plot of sum of Win flag for Date. Color shows sum of Win flag. The marks are labeled by Man of the Match. Details are shown for Winner. The data is filtered on Season, which keeps 2014.

Win %age (Home vs Away)

The trend of Win Percent for Date Year. Color shows details about home vs away. The view is filtered on home vs away, which keeps Away and Home.