Building Soccer Match Reports

Maximilian Klemp

2023-10-21

A Match Report of the final of the Women's World Cup in Soccer in 2023, based on free StatsBomb event data.

Credit: event data provided by StatsBomb.

Match Info

The Final of the Women's World Cup 2023 took place on 2023-08-20 at 13:00. In the match, Spain was competing against England.

Match Result

Spain 1 - 0 England

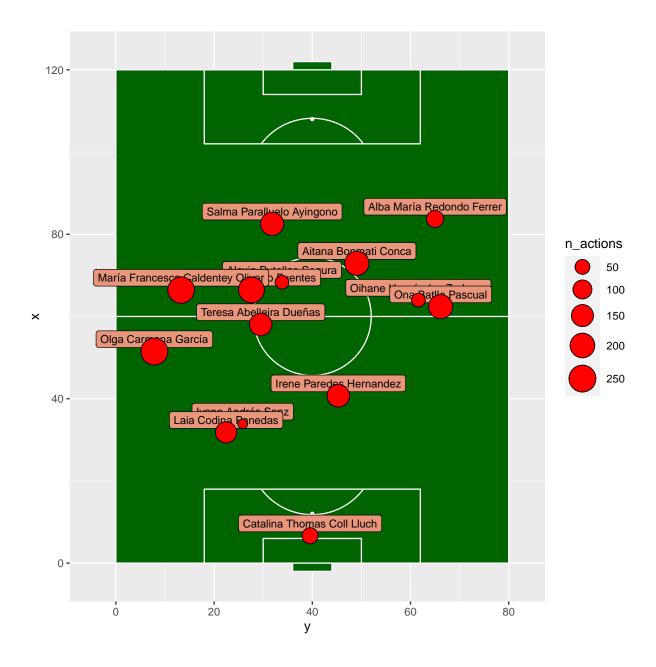
Line-Ups

Line-Ups based on the average position of actions performed by each player.

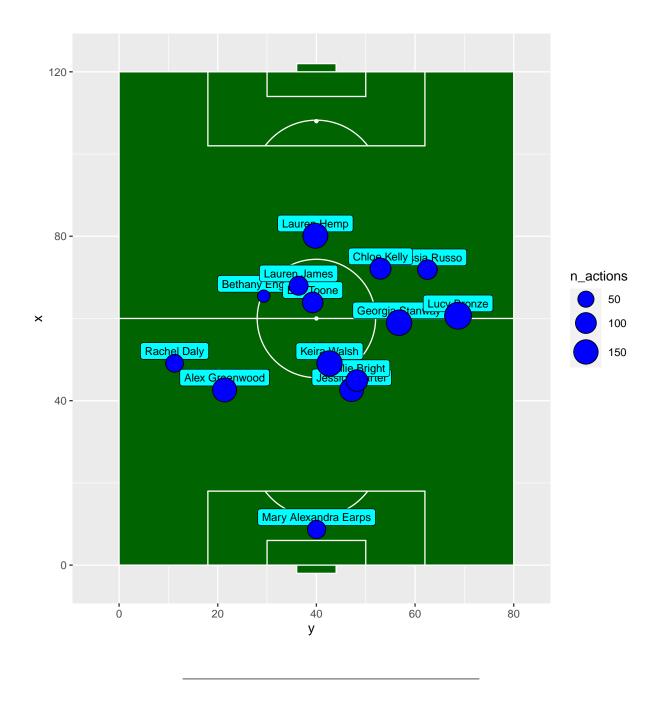
Home Team

```
## Home Team Lineup Map
world_cup_final_events %>%
  filter(team_name == home_team_name) %>%
  group_by(player.name) %>%
  summarise(
    position.name = first(position.name),
    mean_pos_x = mean(location.x, na.rm = T),
    mean_pos_y = mean(location.y, na.rm = T),
    n_actions = n()
```

```
mutate(
   player_name = gsub(" ", " ", player.name),
   player_name_lbreak = gsub(" ", "\n", player_name)
) %>%
   ggplot() +
   annotate_pitch(dimensions = pitch_statsbomb, fill = "darkgreen", colour = "white") +
   geom_label(aes(x=mean_pos_x+3, y=mean_pos_y, label = player_name), hjust = "center", size
   geom_point(aes(x=mean_pos_x, y=mean_pos_y, size = n_actions), col = "black", fill = "red"
   scale_size_continuous(range = c(2,10)) +
   coord_flip()
```

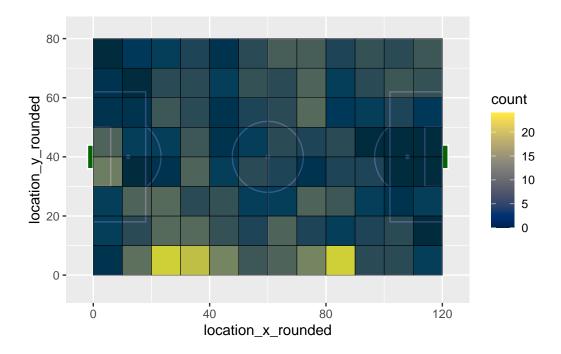


Away Team

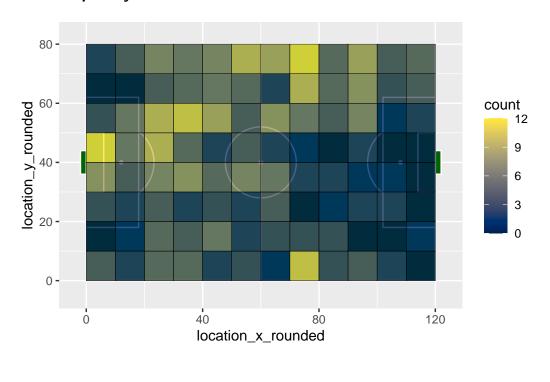


Pass map home team

Density map of the passing positions per team.



Pass map away team



Time evolution

Evolution of the cumulated number of shots over the match per team. Goals are indicated by vertical lines

```
goal_subset <- world_cup_final_events %>%
  filter((shot.outcome.name == "Goal") | (type.name == "Own Goal For"))

world_cup_final_events %>%
  group_by(team_name) %>%
  mutate(
    cum_shots = cumsum(type.name == "Shot")
) %>%
  ggplot() +
  geom_line(aes(x=minute, y=cum_shots, col = team_name)) +
  geom_vline(data = goal_subset, aes(xintercept = minute, color = team_name)) *
  geom_label(data = goal_subset, aes(x = minute, y = 10, label = paste("Goal For ",team_name xlab("Playing minute") +
```

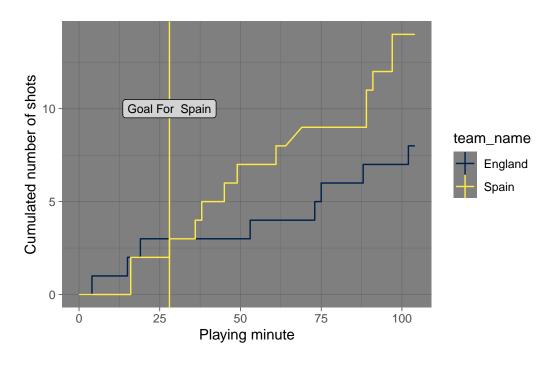
Table 1: Top 5 players per team with respect to number of actions

Table 2: Spain

Table 3: England

team_name	player.name	team_actin	ns	player.name	n_actions
Spain	Olga Carmona García	England 2	250	Lucy Bronze	192
Spain	María Francesca Caldentey	OliverEngland 2	242	Georgia Stanway	168
Spain	Jennifer Hermoso Fuentes	England 2	226	Keira Walsh	166
Spain	Aitana Bonmati Conca	England 1	.90	Lauren Hemp	159
Spain	Ona Batlle Pascual	England 1	90	Alex Greenwood	145

```
ylab("Cumulated number of shots") +
scale_color_cividis(discrete = T) +
theme_dark()
```



Most impactful players

Number of actions

Table 4: Top 5 players per team with respect to passing distance

Table 5: Spain

Table 6: England

team_name	player.name	totaleapmassnalmngthplayer.name	total_pass_length
Spain	Olga Carmona García	England 1287. 1Lucy Bronze	1258.8
Spain	Irene Paredes Hernandez	England 1268.2 Mary Alexandra Earps	1173.4
Spain	Teresa Abelleira Dueñas	England 1038.6 Jessica Carter	1102.8
Spain	Ona Batlle Pascual	England 920.0Alex Greenwood	1054.1
Spain	Jennifer Hermoso Fuentes	England 912.3Keira Walsh	912.1

Table 7: Top 5 players per team with respect to carry distance

Table 8: Spain

Table 9: England

team_name	player.name	total <u>eamryan</u> dist	player.name	total_carry_dist
Spain	Aitana Bonmati Conca	England436.4	Lauren Hemp	234.2
Spain	Ona Batlle Pascual	England298.1	Lucy Bronze	233.2
Spain	Olga Carmona García	England289.4	Alex Greenwood	173.6
Spain	Jennifer Hermoso Fuentes	England271.9	Lauren James	170.2
Spain	Irene Paredes Hernandez	England242.3	Jessica Carter	168.6

Passing distance

Carry distance

Turnovers

A map showing the distribution of turnover locations for both teams.

```
world_cup_final_events %>%
 arrange(minute, second) %>%
 group_by(possession) %>%
 summarise(
    team = first(team_name),
   duration = sum(duration, na.rm = T),
   first_action = first(type.name),
   last_action = last(type.name),
   last_x = last(location.x),
    last_y = last(location.y)
 ggplot(aes(x=last_x, y=last_y)) +
    annotate_pitch(dimensions = pitch_statsbomb, fill = "darkgreen", colour = "white") +
 geom_density_2d_filled(alpha = .9) +
  geom_point(aes(), size = 2, alpha=.6) +
   facet_grid(team~.) +
  scale_fill_cividis(discrete = T) +
```

