

Building Soccer Match Reports

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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.

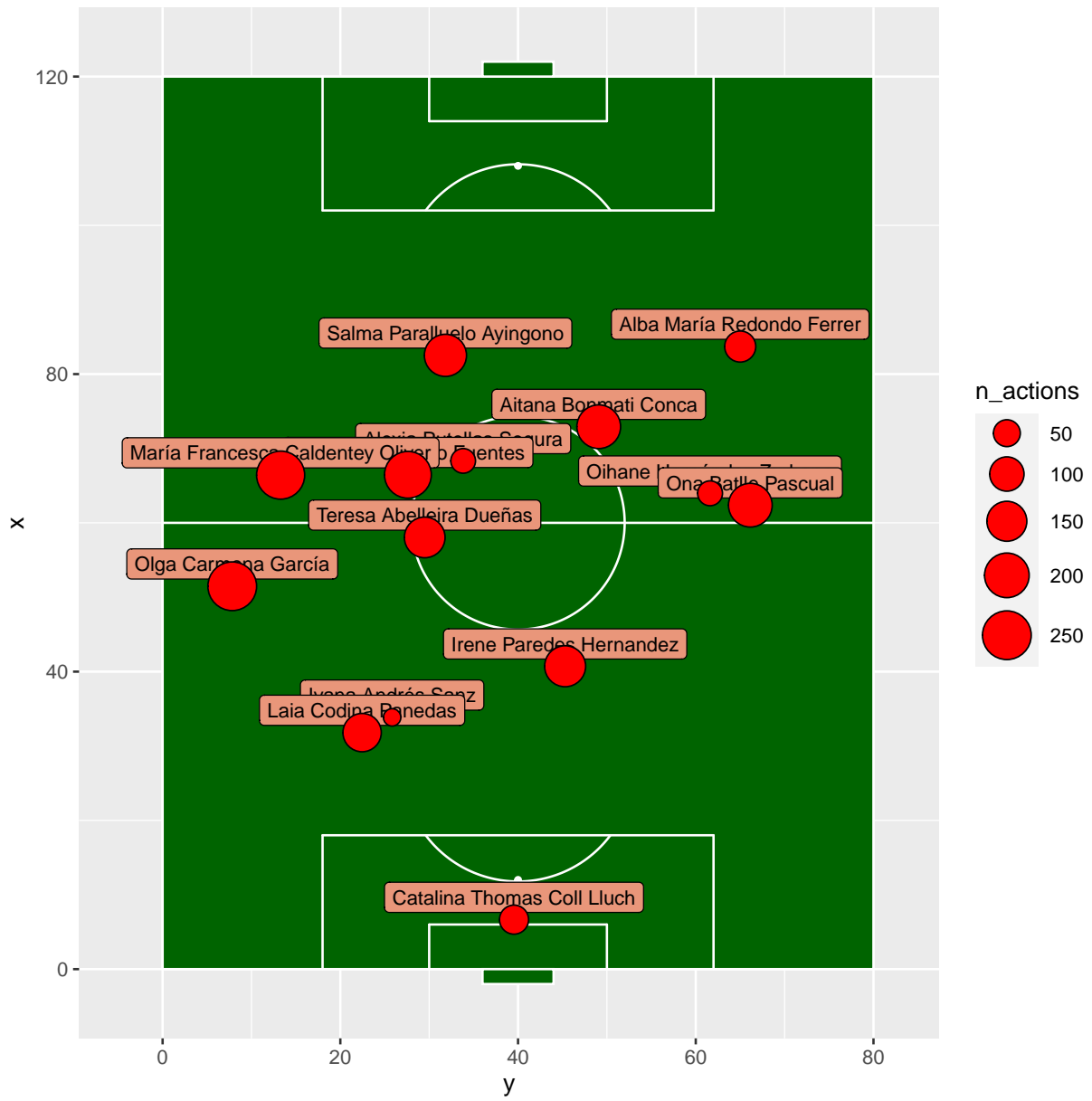
Home Team

```
## 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()
```

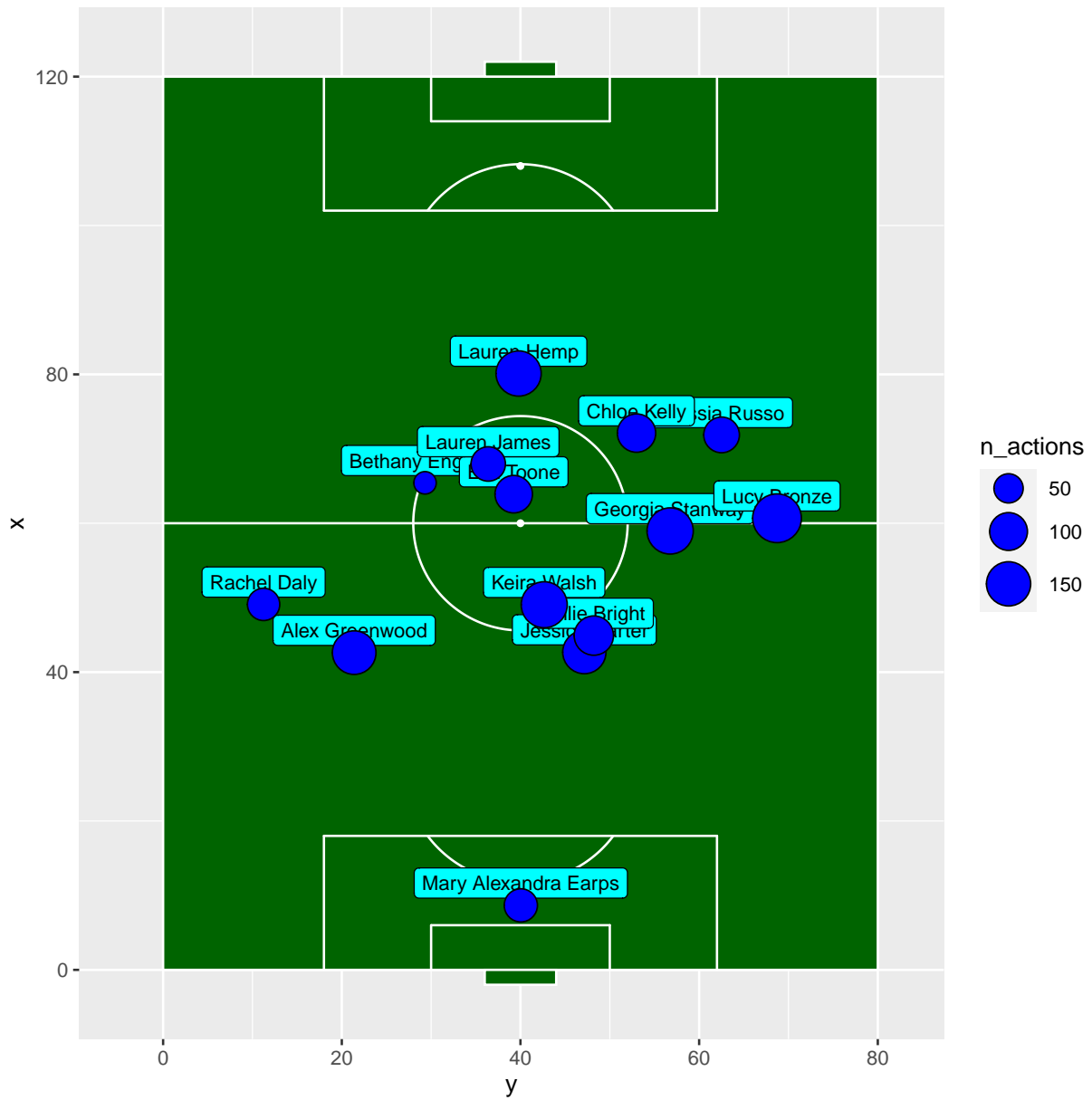
```

) %>%
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()

```



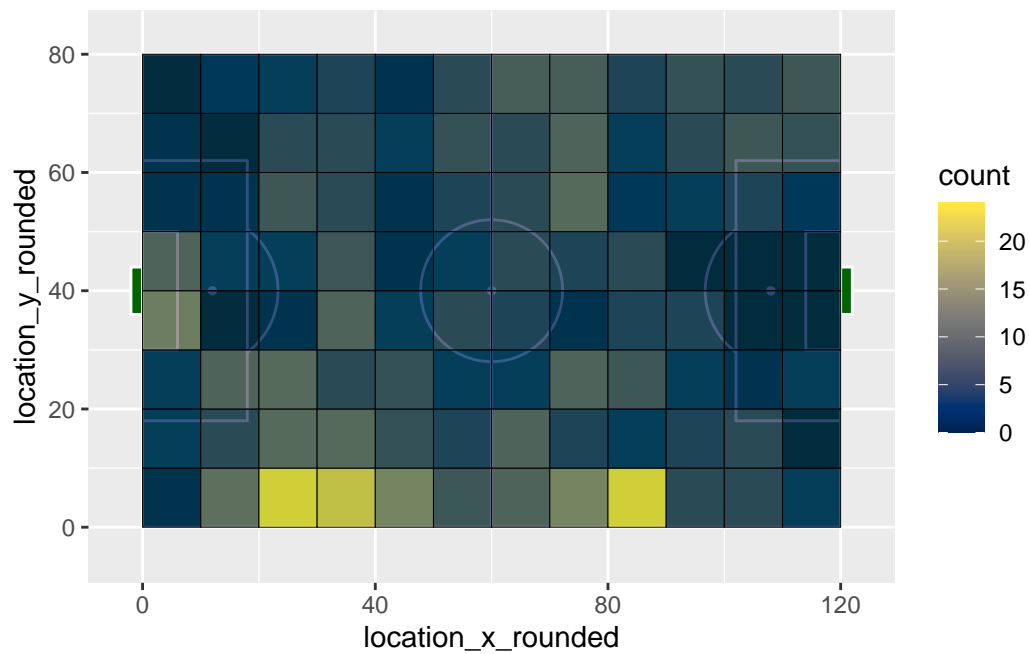
Away Team



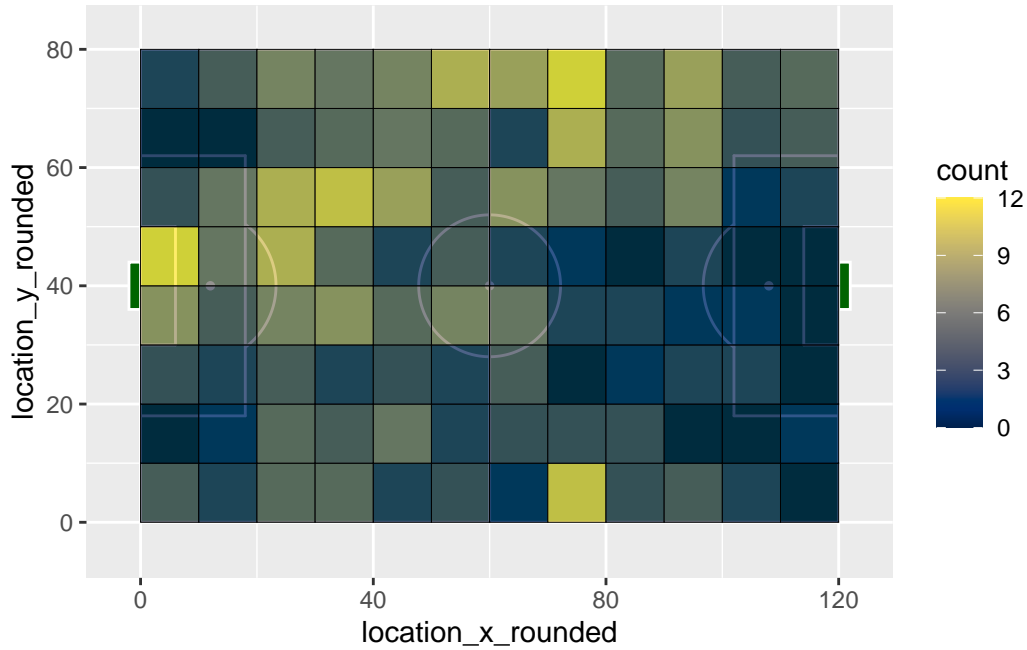
Pass map home team

Density map of the passing positions per team.

```
world_cup_final_events %>%
  filter(type.name == "Pass",
         team_name == home_team_name) %>%
  mutate(
    location_x_rounded = round(location.x),
    location_y_rounded = round(location.y)
  ) %>%
  ggplot(aes(x=location_x_rounded, y=location_y_rounded)) +
  annotate_pitch(dimensions = pitch_statsbomb, fill = "darkgreen", colour = "white") +
  geom_bin_2d(binwidth = c(10,10), drop = FALSE, alpha = .81, col = "black") +
  scale_fill_cividis()
```



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") +
```

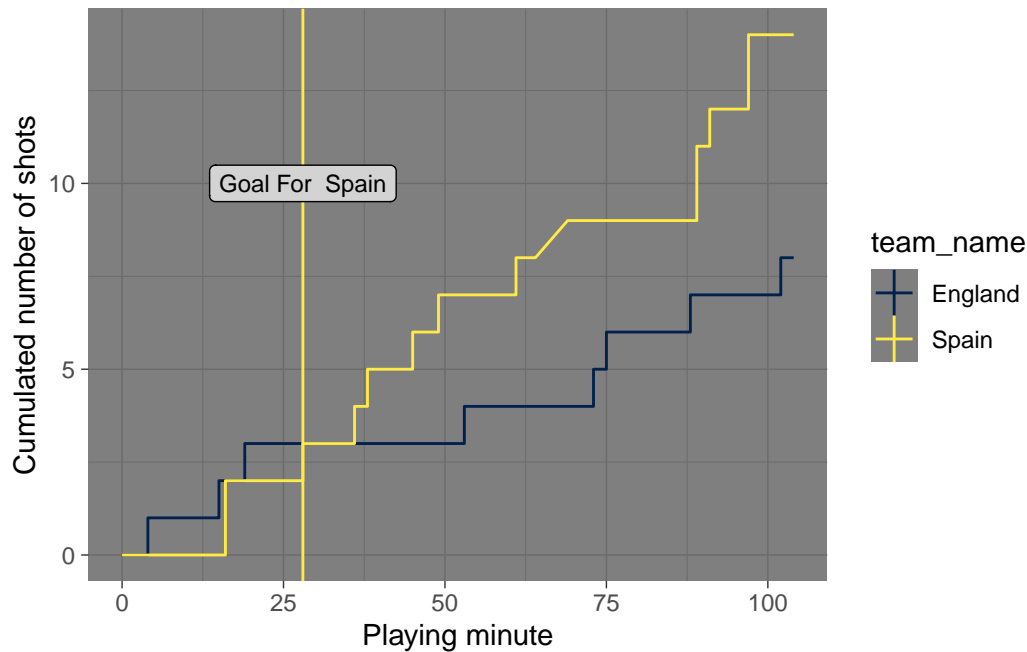
Table 1: Top 5 players per team with respect to number of actions

Table 2: Spain

Table 3: England

team_name	player.name	team_actions	player.name	n_actions
Spain	Olga Carmona García	England 250	Lucy Bronze	192
Spain	María Francesca Caldentey Olivera	England 242	Georgia Stanway	168
Spain	Jennifer Hermoso Fuentes	England 226	Keira Walsh	166
Spain	Aitana Bonmati Conca	England 190	Lauren Hemp	159
Spain	Ona Batlle Pascual	England 190	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	total_pass_length	player.name	total_pass_length
Spain	Olga Carmona García	England1287.1	Lucy Bronze	1258.8
Spain	Irene Paredes Hernandez	England1268.2	Mary Alexandra Earps	1173.4
Spain	Teresa Abelleira Dueñas	England1038.6	Jessica Carter	1102.8
Spain	Ona Batlle Pascual	England 920.0	Alex Greenwood	1054.1
Spain	Jennifer Hermoso Fuentes	England 912.3	Keira 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_carry_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) +
    theme_minimal()
```