

ROBOBLOGGER

A UNIQUE COLLABORATION BETWEEN

THE TELEGRAPH AND GOOGLE

A real-time sports action visualiser

"The newsroom has access to a huge amount of quality data, but it can be incredibly time consuming for journalists to turn that into graphics for live reporting. Roboblogger frees the writers up to produce more of the award-winning reporting and analysis they are known for, but means our readers are still able to enjoy the additional insight provided by the visualisations."

Malcolm Coles, Director of Digital Media at Telegraph Media Group

10th June, 2016 **ROBOBLOGGER BECOMES SELF-AWARE**

Euro 2016 **51 MATCHES, 163 GRAPHICS**

ped to the back post where Gudjohnsen eled off, but Ingason didn't see him and diverting it away. hot into Halldorsson's hands from 10

loris in no man's land. He crosses for Mangala tracks the ball and knocks it nd (Biarnason) And still they keep

l break with Saevarsson darting into the

the ball up the left and Skulason fires in crisp cross. Bjarnason leaps to meet it der past Lloris. True grit.



hand or paying tribute to Michael ng one glove? Sigthorsson goes off to be Gudjohnsen.

on: Payet off for Kingsley Coman.

nose dedication and organisation have mendable, push Payet out on to his left diligence and no trace of chucking the ance break. It has been a very effective has scored one with his left tonight.

from Umtiti at the edge of the box. njured and he is third choice, France's ly to produce centre-backs of quality,

standing, is remarkable.

ling the point that viewing matches nd filter is a reductive, masochistic vice ne's enjoyment ... but do you reckon e bending their backs as much as down? Different expectations, of probably why there are such

on, Enter Eliaquim Mangala, exit y, free to play in the next match.

umbers, four v three, with Sissoko

ddle and leaving Ragnar Sigurdsson in three in the box cope well, Saevarsson e after he receives Sissoko's pass and in 10:46pm Germany*3-4 Italy Parolo scores.

10:46pm

0 0 ⊕ ⊕ ⊛ 0 ■ Goal ■ Off target ■ Saved/Blocket

•

Germany penalties

Germany penalties

Mate. M8. Mait. Buffon is so so so so so so so close to stopping that penalty. The ball squirms underneath his

body, between his hip and his hand. That was the worst penalty shoot-out I've seen in ages. In

terms of quality, I mean. The tension was magic.

Germany 6 - 5 Italy the net, GERMANY ARE THROUGH!

10:49pm

Hector steps up... AND SCORES! Bottom right, back of 10-49nm

Germany* 5 - 5 Italy

DARMIAN MISSES! His penalty is low and weak like Gareth Southgate's and Neuer saves! Hector is next and can win it for Germany!

Germany 5 - 5 Italy*

BOATENG SCORES!

Italy are putting all their penalties down the middle. Italy penalties



De Sciglio HITS THE BAR! But the ball comes off it and into the back of the net. Boateng is next. His head went earlier. Can he hold his nerve?!

Germany 4 - 4 Italy* What a penalty. Kimmich steps up and tucks his penalty into the bottom left corner. That was brilliant. De Sciglio up next.

Possession over last 10 minutes Poland Portugal 71% 29%

Poland are playing softly, softly catchee monkey to draw

Portugal out, hence the possession switch on the graph.

9:15pm

57 min Ronaldo free on the left, bounds down the left horiozontal whitewash of the box as of old then spoons a

9:16pm

59 min

left-foot shot into the side netting 9:14pm 54 min Pazdan strings the ball across the back four over to

Piszczek who eventually, calmly, plays it up to Krychowiak in the centre-circle who tries to spring the offisde trap but mistimes it.

Renato Sanches twists Jedrzejczyk's plasma as he turns him twice down the Portuagl right then rolls back a pass to Cedric who stands up a cross from the edge of the box to meet Ronaldo's near-post run but it goes over his head. Seconds later he has a second bite from Adrien Silva's cross but gets too close to Fabianski and barges into him. Patrick O'Brien

₩ Follow Can imagine Anderson sat at home with a barrel of fried chicken watching Renato Sanches thinking, "I used to able to do that ... " #POLPOR 4 t3 4 W1

9:08pm 49 min

51 min

right twice in 30 seconds, first time pulling back the cross that Portugal scramble clear then booming one on the run from the touchline that loops over Fonte and reaches Lewandowski shortly after the bounce with Pepe in close pursuit. He had neither the time nor space to fashion a finish from 10 vards. Good work by Pepe. 9:06pm

Piszczek is not deterred and attacks on his own up the

Blaszczykowski goes up the right, shifts the ball inside with a deft pass but Renato Sanches whisks it away from Milik. Krychowiak wins it back and passes it out to Piszczek who looks for his former BVB teammate Blaszczykowski but the old right-wing telepathy is absent tonight and the ball goes out as a run is misread.

9:04pm We're off again, both sides unchanged. Cedric chips a ball up the right with too much force and it skims off the slick turf through to Fabianski.

9:00pm Here's Portugal's goal In glorious animation form:

Portugal goal





Why not have a crack at winning a Kia by sticking a few pens past David James? Portugal did in 2004, so why can't you? Have a go here.

8:49pm Proactive Czechs pin the Turks back Check out these average touch graphics, which illustrate the success of the Czech pressing:

Czech Republic average touch positions

Starter Substitute

Turkey average touch positions

Starter Substitute

8:48pm Half-time Nobody's happy with this - except Northern Ireland. A fiery start from the Turks, but the Czech Republic

steadily grew into it and ended the half dominating possession, if not the scoreboard. 8:46pm

45 minutes Mor driven back into his half and has to prod it back to Babacan. Again, the Czechs win it back, and if Necid had got onto that cross from Dockal the scores would be level

One added minute.

43 minutes

Plasil redeems himself somewhat for his yellow by launching a scorcher at Babacan. The keeper parries but it's an ominous warning shot for the Czechs, who are gathering strength.



Gomez should have scored about t Well played Norn Iron!

survive the first half onslaught of

world champions were seriously p

FULL TIME That's it! Northern Ireland did tree



90 mins +2 The ball bounces around the North area again, falls to Ozil and he snap right foot but it flies wide.

6-48nm

6:45pm

89 mins Gomez picks up a loose ball just ou but it's straight at McGovern again today, the goalkeeper, but so many have been taken straight at him. Germany shots CHO

0 0 ■ Goal ■ Off target ■ Saved/Blocked 6:44pm

Michael O'Neill doesn't look happy technical area. Ozil finds Kimmich Cathcart clears, McGinn can't keep

ball around and start again. 6:41pm 85 mins Aberdeen forward Niall McGinn is likes taking shots and is good at fro

a chance to grab that magical equa a shot from 25 yards, striking the b and watching it whistle just over t 6:38pm 84 mins

Germany build up play beautifully goalkeeper all the way to Northern leads the way, cutting open the de

Kimmich on the right wing. He co defender with the fake cross, then for Gomez... great save by McGove







2016 competitions

15 - 20 GRAPHICS PER MATCH + CLOCKWATCH

The Celegraph ALL SECTIONS Sport | Football

A · Sport · Football

Manchester City 3 Barcelona 1: Pep Guardiola masterminds City comeback as Gundogan grabs double





By Sam Wallace, CHIEF FOOTBALL WRITER, AT THE ETIHAD STADIUM and JJ Bull, LIVE UPDATES 1 NOVEMBER 2016 - 11:26PM

risk it all, and once you have prevailed playing football

His Manchester City players, and perhaps their fans too,

will wake on Wednesday morning with a new view of

European football, and a sense of themselves that has

been out of their grasp since the Abu Dhabi adventure

premium content offering of the elite European game, a counter-attacking riot that turned into City's benchmark

So often in these kind of games it is Lionel Messi and his

setting, but they tend to be victorious nonetheless. Some

of the best managers in the world would not dream of

fighting with Barcelona the way Guardiola took on his

It meant that this was a night when the Etihad Stadium

experienced the kind of Champions League moment that

has long eluded it, even in the run to the semi-finals last

reminds them of where they stand in the order of things

season, an awakening to the possibilities of this

competition. The counter-attacking goal that Messi scored in the first half was the type that usually slavs the ambition of an opposition team, or at the very least

former club, but then you might say that none know

them quite so well.

boys who come out on top, a little ruffled perhaps,

required to step it up from a canter to their A-game

began. This was a football match like no other, the

victory over the greatest team of the 21st century.

that way, the world looks a different place.

Match Summary

Manchester City 3 - 1 Ba	rcelona	CREDIT GETTY	
Champions League	01/11/2016 19:45	For City's third goal it was Sergio Agüero who won the ball on the edge of his own area and launched an attack	
Referee: Viktor Kassai Venue: Etihad Stadium Attendance: 53,340		that ended with the Argentine lunging for a David Silva cross into the area that came off his back and fell nicely for Gundogan. It was one straight out the Messi	
39' Gündogan 🕏 🕏 Messi 21'		playbook, or rather it was an answer to the outrageous box-to-box first goal executed by Messi and Neymar in	
51' De Bruyne 🕏		the 21st minute.	

That was a move that lasted little more than eight or nine seconds from start to finish but from the moment it Pep Guardiola knows that if you are serious about began you felt like everyone in the stadium knew how it taking on the modern colossus that is Barcelona you cannot simply take a little bit of a risk, rather you have to

Goal: Man City 0 - 1 Barcelona (Lionel Messi, 21 min)



At the beginning was a City corner - where else do great Barcelona goals start but in their own area? Javier Mascherano blocked Agüero's shot and Messi, from just outside his own areas swept the ball to the left wing where Neymar waited in his own half. From the moment he set off down the left flank it seemed like he was just killing time for Barca's No 10 to receive the return. Messi ran onto it like a car reaching the junction just at the moment the light turns green. He gently squeezed the accelerator, took the pass in his stride and tucked the ball

into the corner of Willy Caballero's goal. Goal: Man City 1 - 1 Barcelona (Ilkay Gündogan, 39 min)



Before then City should have had a penalty when

Raheem Sterling twisted past Samuel Umtiti and the



compared with the giants of the game and that it could take 20 years to establish them among the big guns. "We play against our own tradition," he said, that being the tradition of not being a part of the elite although there are few better ways of gate-crashing it than scoring goals against Barcelona that begin on the edge of one's own

That was what made the second half such a watch - the

madness of it all, when the attacks rolled so quickly upon

one another that it was hard to recall who was countering

Barcelona half to try to rob substitute Arda Turan for the ball ricochet forward to Luis Suárez who teed up Andre

who. At one point John Stones went deep into the

Gomes for a shot against the bar.

For a while after the first goal, all Guardiola's team could do was hang on for dear life. Andre Gomes, the elegant Portuguese midfielder, deposited Nicolas Otamendi on his backside with one change of direction. The Argentine defender recovered only to be given directions to the wrong place by a swivel of Neymar's hips.

Goal: Man City 3 - 1 Barcelona (Ilkay Gündogan, 74 min)





of one's own goal on a regular basis. This pass was straight to Agüero, who played in Sterling and back post ball was slotted in by Gundogan. Either side of half time, Fernandinho came into his own

with a shot just wide and an expert tackle on Messi in the area. He would later go off injured before City finished the job. Sergio Busquets' foul on Silva gave City a freekick that Kevin De Bruyne seemed destined to aim at Marc ter Stegen's top right corner before the goalkeeper took half a step in the opposite direction. That was all the invitation the Belgian required to arch a right foot shot into the other side of the goal.



It would be hard to list all the chances that followed in the second half, safe to say that before and after Gundogan scored the third for City this was football as it should be played: brave and attacking from both sides and a victory that counts for much more than just three

9:47pm Gundogan and De Bruyne Ilkay Gundogan says:

We started a hit nervous but after our goal we won our confidence back and the second half was incredible I think. The result was more than

It was not so much about tactics, it was about mentality, about winning one on ones. It was an unbelievable game from our side.

Kevin De Bruyne says:

Everybody knows the style we're playing, even for Barcelona we try to do the same. It's difficult against them, in Barcelona we also tried it and had a little less luck. It's an enormous boost to go further in the Champions League

I was looking, it doesn't matter to be fair. He was too much in the middle and he took one step so it was too difficult to get back I reckon.



90 mins

Standing ovation for De Bruyne. What a player. He has been magnificent this evening.





Goal: Man City 1-1 Barcelona (Ilkay Gündogan, 39 min)



Barcelona get caught out by their own box! They pass it around but Roberto plays a horrible square ball across his box and it evades every other defender. Aguero drops

in and picks it up, plays wide to Sterling and his vision to 8:23pm

39 mins

Barcelona are playing a different sport at the moment. Their forward players and midfielders are tricking their way around City's defending players and the speed of pass and skill that they're showing off is amazing to watch. Corner after corner, pass after pass - Barca are more clinical, sharper and just look better. But it's only 1-

Andre Gomes absolutely ruins Otamendi, leaving him flopping about on the floor after running in behind the last man and through into the box. He finds Nevmar, who sends Otamendi flying again with a fake shot but the

defence crowd them out and get it clear.

City are getting pummeled at the moment.

Barcelona keep attacking, win a free-kick, City don't clear it. Suarez shoots and is blocked. Messi gets in the back post and manages to cushion a pass - somehow across the box to Suarez but it's just over his head. Man

8:17pm

33 mins Caballero tries to play it short and then just decides it's a terrible idea and hoofs it down the pitch. Barca win the ball back immediately, Ter Stegen passes out from his



That's Messi finishing the move.

Man City have another free-kick in the Barcelona half. which De Bruyne will take... it goes straight out for a goalkick, Poor effort,

Man City



City clearly focusing on the right hand side of the pitch

possession for the half so far 8:13pm 27 mins

City keep playing out from the back and their starting position is basically the goal line. Messi is at it here tonight, running straight through the middle and terrorising the midfield - he makes a very rare poor decision and plays the ball left when he has a teammate in space on the right.

and trying to keep the shape tight. Barca are stretching

the play and have something stupid like 63% of

Neymar wins a corner.

8:09pm

Perfect counter-attack from Barcelona for that goal. It's not even fair how good Messi is.

Aguero is also quite good, and completely bins Digne with a bit of skill but tries to play a forward pass into the box rather than teeing up Silva for a shot at goal on the edge. The chance goes begging.

MEEESSSSIIIIIIIIII GOAL! Lionel Messi for Barcelona makes it 0-1!

Goal: Man City 0 - 1 Barcelona (Lionel Messi, 21 min)





8:06pm 21 mins Rakitic is booked for a late tackle on Gundogan - he pulls out of the slide tackle but his momentum takes him onto

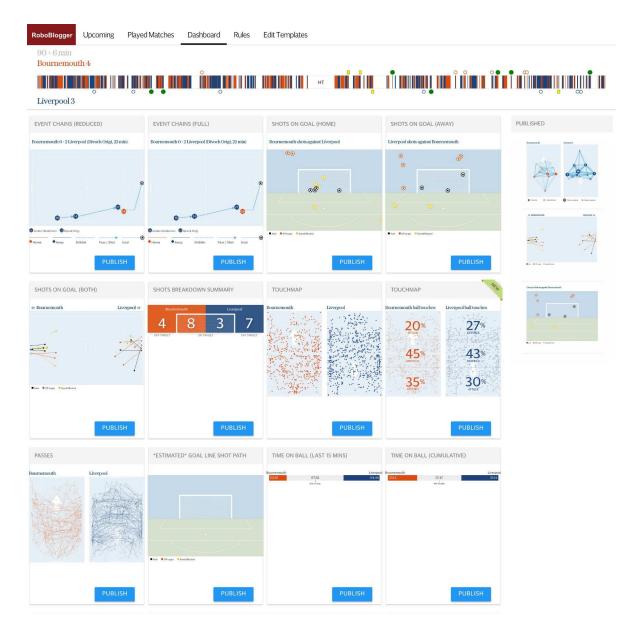
the legs of the City player. The free-kick is put in the box, Aguero shimmies to

shoot, his effort is blocked and Messi nicks it away. Barcelona are on the counter!





Dashboard **HOME TO ALL THINGS ROBOBLOGGER**



 $90 + 5 \min$



Liverpool 4

90+4 min

West Ham 1



Arsenal 5

90+5 min

Leicester 2

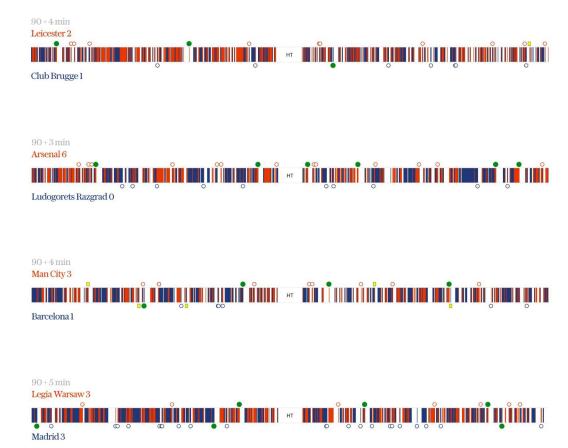


Middlesbrough 2

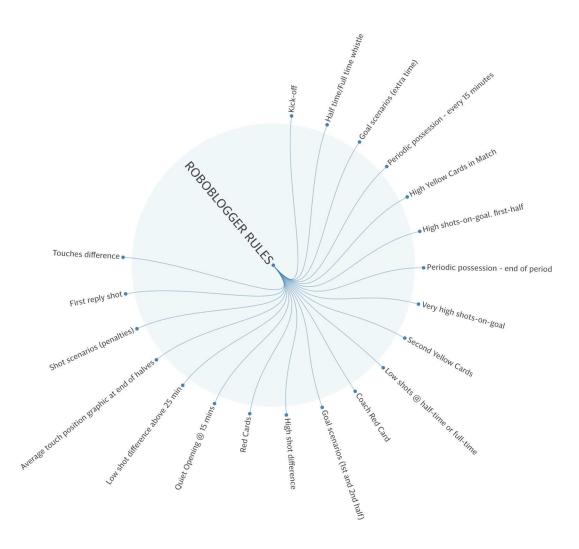
90+4 min

Spurs 5

Swansea 0



Rules **DO A GOAL!**

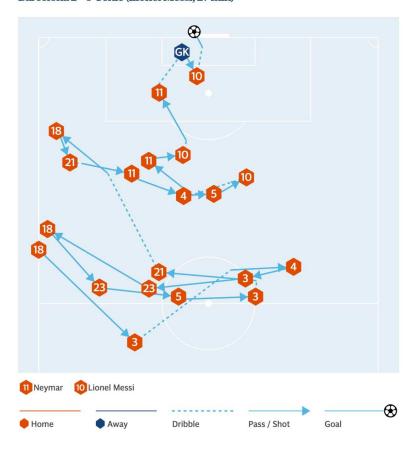


WHEN A GOAL IS SCORED.

It is matched with one of 19 scenarios... each with multiple text and graphic templates.

TOAL
OWN GOAL
LATE WINNER GOAL
DEADLOCK BREAKER GOAL
BEFORE HALF TIME OPENER
GENERIC OPENER GOAL
CONSOLATION GOAL
 DEFICIT HALVING GOAL
RESTORED ONE GOAL
RESTORED TWO GOAL LEAD
LATE LEVELLER GOAL
 BEFORE HALF TIME LEVELLER GOAL
 GENERIC EQUALIZER
PULLED BACK GOAL
SIXTH GOAL
SEVENTH
WO NILL
THREE NIL LEAD GOAL GENERIC GO
GENERIC GOAL
-

Barcelona 2 - O Celtic (Lionel Messi, 27 min)



Man Utd 1 - 1 West Ham (Zlatan Ibrahimovic, 21 min)



Oh, to be human TAKING THE 'ROBO' OUT OF ROBOBLOGGER

5:32pm

GOAL!

Burnley have pulled a goal back through Sam Vokes to make it 3-1!

Goal: Southampton 3-1 Burnley (Sam Vokes, 72 min)



5:04pm

Second half start

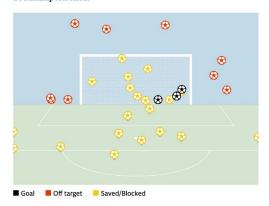
It's the start of the second half for Southampton vs Burnley

5:49pm

Southampton are all over Burnley

The home side have been peppering Burnley's goal in the match so far - they have attempted $32 \, \mathrm{shots}$ with $12 \, \mathrm{of}$ them on target.

Southampton shots



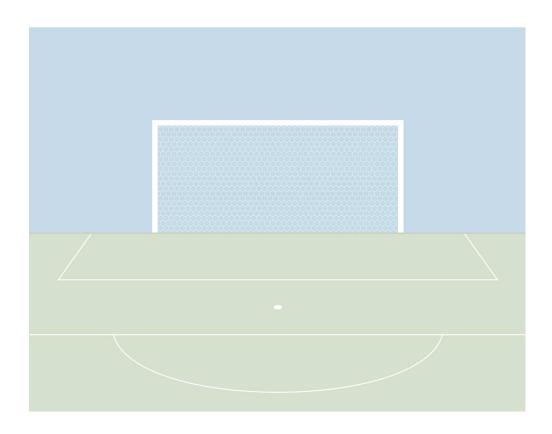
5:12pm

GOAL!

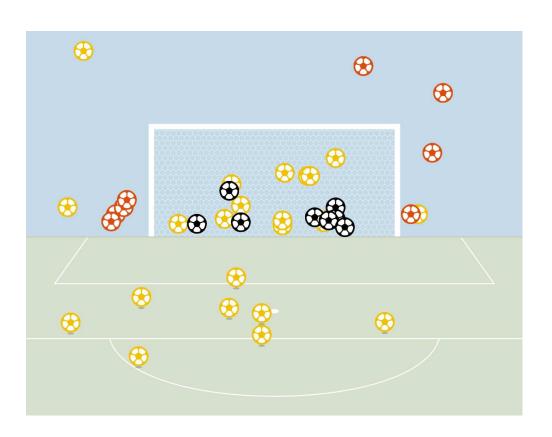
1-0! Charlie Austin has broken the deadlock for Southampton!

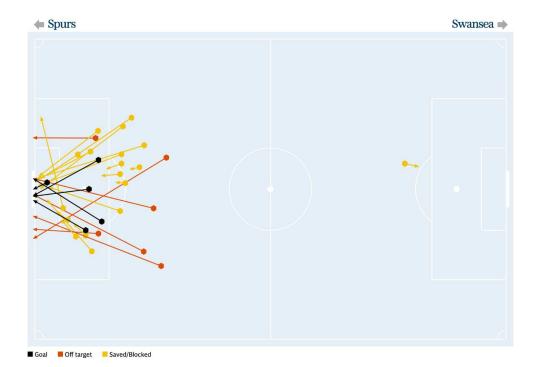
Goal: Southampton 1 - O Burnley (Charlie Austin, 52 min)





San Marino v Germany

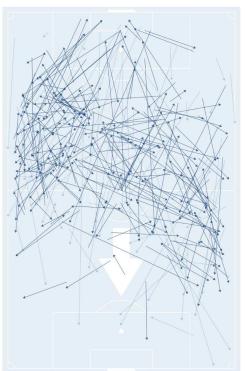


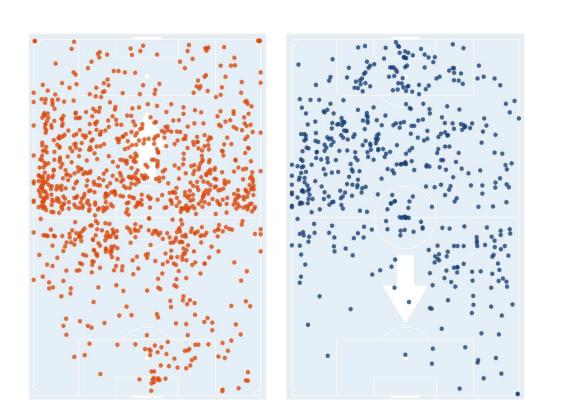












Bournemouth

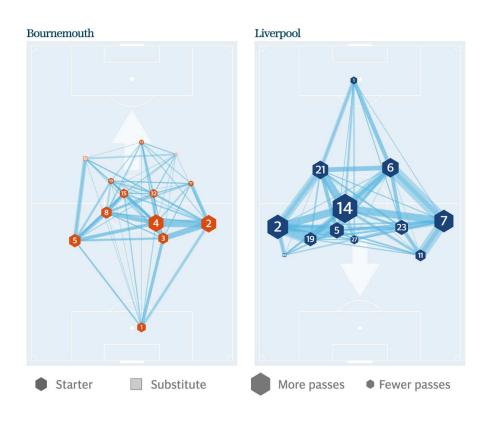


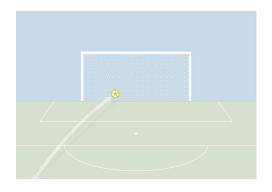
Liverpool



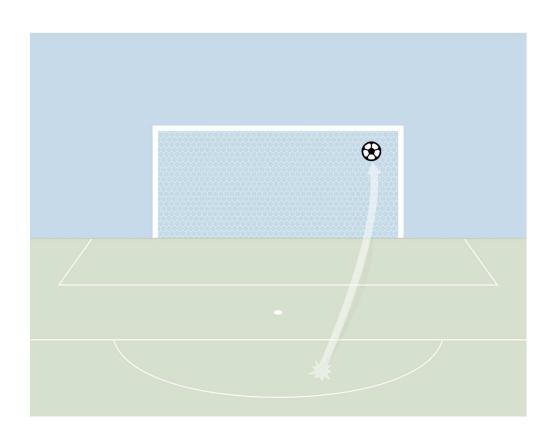
Starter

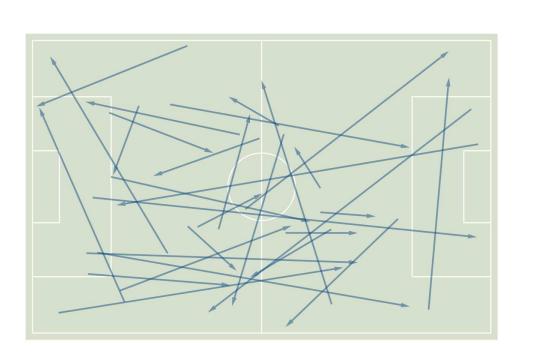
Substitute

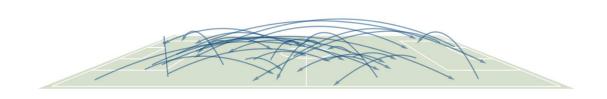


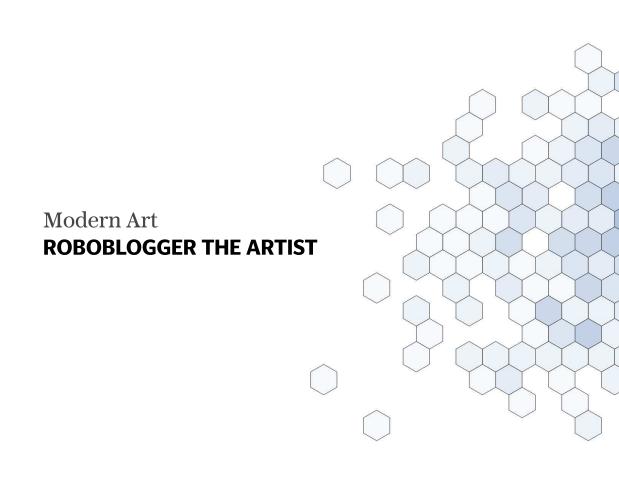


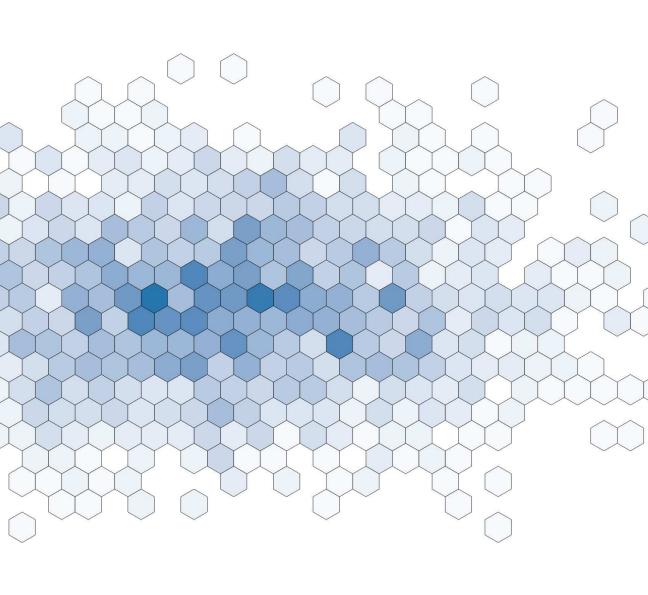


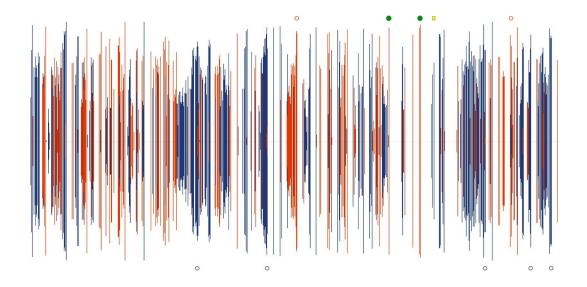


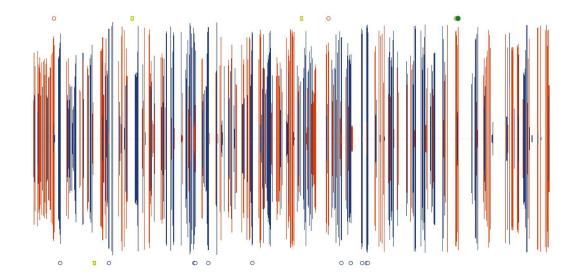


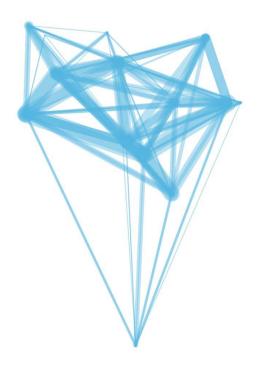


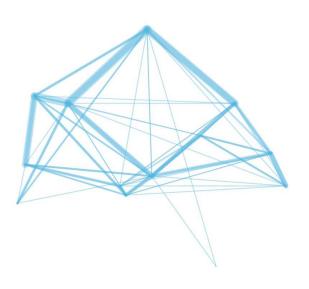






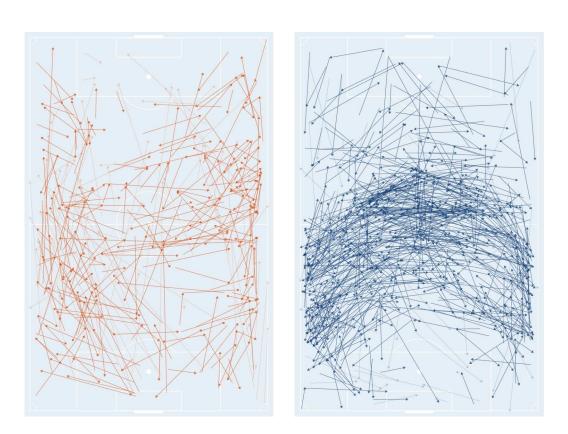








Cy Twombly (1971) v Roboblogger (2016)



THANK YOU

TELEGRAPH SPORT EDITORIAL
EDITORIAL INNOVATION PLATFORM
TELEGRAPH DESIGN
GOOGLE
OPTA

AND ALL THE INDIVIDUALS THAT MADE ROBOBLOGGER POSSIBLE

DIGIDAY UK





The Telegraph built a tool that auto-creates graphics of Premier League goals

Lucinda Southern August 30, 2016

The Telegraph has made changes to its sports datavisualization tool so interactive graphics are created and published on site automatically each time a football goal is scored.

"We were trying to solve two problems: how to produce sports visualizations in real-time, and how to automate and save time," said Malcolm Coles, director of digital media at Telegraph Media Group. "For this we needed to set up a rules engine to analyze data without the journalist even realizing that the story had happened."

The Telegraph's graphics tool was created for the Rugby World Cup last year to generate interactive graphics of the game play. Earlier this year the Telegraph received €300,000 (\$345,000) in funding from Google's News Initiative to develop it further, and it switched to make graphics of how goals happened. Since mid-August, in time for the Premier League, these graphics can be created and published automatically each time a goal is scored.





The Telegraph is trying to streamline soccer live blogging with an automated graphic system

