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**Scotland's Electoral Geography Differed from the Rest of Britain's in 2017 (and 2015) – Exploring its Contours**

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## Scotland's Electoral Geography Differed from the Rest of Britain's in 2017 (and 2015) – Exploring its Contours

ABSTRACT. *The rapid expansion in support for the Scottish National Party between the 2010 and 2015 general elections substantially changed the country's electoral geography, as again did its relative decline at the next election in 2017. At that last contest, however, the SNP won many seats with fewer than 40 per cent of the votes cast, a situation very different from that in the rest of Great Britain. That difference – which had a considerable impact on the formation of a government in June 2017 – came about because of the nature of the competition in individual seats.*

KEY WORDS: general elections, electoral geography, party competition, Scotland

### 1. Introduction

The 2015 and 2017 general elections both saw major changes to Scotland's electoral geography, changes that differed substantially from those in the rest of Great Britain and which indirectly influenced the electoral outcomes. The Scottish National Party (SNP) increased its share of Scotland's votes from 19.9 per cent in 2010 to exactly 50.0 per cent in 2015, winning all but three of the country's 59 House of Commons seats. Just two years later, that vote share fell to 36.9 per cent, and the SNP won 35 of the 59 seats. In seventeen of those it had the support of less than 40 per cent of voters – a situation that characterised the winning party in only five of the 572 seats in England and Wales; almost all English and Welsh MPs elected in 2017 had the support of at least 45 per cent of their constituents who voted compared to less than one-fifth of all Scottish MPs. Furthermore, whereas only 12 per cent of English and Welsh constituencies returned an MP with a majority of five percentage points or less, similar small majorities characterised 37 per cent of Scotland's constituencies then. This paper explores those significant differences between Scotland and the rest of Great Britain, identifies tactical voting as a possible cause of the shifts away from the SNP in many seats, and comments on the impact of the result in Scotland on the nature of the UK government formed in June 2017.

### 2. From Votes to Seats: Duverger's Law

The UK's first-past-the-post (fptp, or plurality) electoral system is widely known for producing both disproportional and biased election outcomes, whereby a party's overall share of the votes cast is very often incommensurate with its allocation of seats. In Scotland, for example, the SNP won 19.9 per cent of the votes in 2010 but only six (10.7 per cent) of the seats. As clearly demonstrated in Gidgin and Taylor's (1979) classic study of *Seats, Votes, and the Spatial Organisation of Elections*, such disproportionality is a function of geography, of not only how many votes a party wins but also, and crucially, the location of those votes. Three elements of the geography of a party's support interact in that function: the degree to which its supporters are congregated in particular places; the degree to which those places are concentrated within larger areas; and the network of constituencies superimposed on those geographies. A party whose supporters are evenly distributed across a country may win few, if any, seats – for example, UKIP won 12.9 per cent of the votes in Great Britain in 2015, but had only one MP elected. Another party with its support more spatially concentrated might perform better in the translation of votes into seats but still not obtain a commensurate share of the seats: at the 2015 election, for example, Plaid Cymru won 12.1 per cent of the votes cast in Wales, with more than 20 per cent of the votes cast in just seven of the forty

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3 constituencies, but only three of its candidates were elected (7.5 per cent of the total). As both  
4 Gudgin and Taylor (1979) and Johnston and Rossiter (1983) have shown, within any large area the  
5 same level and geography of support for a party can lead to different outcomes in the allocation of  
6 seats depending on the placement of constituency boundaries.  
7

8  
9 Disproportionality in a party's shares of the votes and seats as a function of those three geographical  
10 components is a common characteristic of polities characterised as two-party systems. Its nature  
11 and production are particularly complex in multi-party systems where more than two parties are  
12 relatively strong competitors not only for votes but also for seats. One of political science's longest-  
13 lasting empirical generalisations – Duverger's law (Duverger, 1954; Grofman et al., 2009) – stipulates  
14 that there is a strong tendency for polities using fptp to be dominated by two parties, with smaller  
15 parties rarely allocated legislative seats in a number commensurate with their vote share; support  
16 for 'third parties' is squeezed. But how such two-party systems emerge can vary not only between  
17 but also within polities, as illustrated here – a situation that accounts for Scotland's particularity at  
18 the 2017 UK general election.  
19

### 20 **3. The British Polity Before 2015: Changing Party Systems and Regional Duverger's Law**

21  
22 For the first 25 years after the Second World War the British polity had all the characteristics of a  
23 two-party system. The Conservative and Labour parties together won the great majority of the votes  
24 cast (a minimum of 87.5 per cent in 1964 and maximum of 96.8 per cent in 1951) and even greater  
25 percentages of the seats – 621 of the 630 seats in 1964 and 616 of the 625 in 1951 (98.6 per cent in  
26 both cases).<sup>1</sup> This hegemony changed at the first of the 1974 elections, much more so in the vote  
27 totals than in seats: the two parties' combined vote share fell to 74.9 per cent, but they still won 598  
28 of the 635 constituency contests. Their predominance in the competition for votes was further  
29 eroded from then on, with some slight variations at individual elections, by growing support both for  
30 the Liberal party and its successors and for the Scottish and Welsh nationalist parties. Those parties'  
31 electoral successes had their own geographies and exemplifications of Duverger's law.  
32  
33

34 The Liberal Democrats' increased voter support was never commensurate with their number of  
35 seats won;<sup>2</sup> nevertheless, the geography of that increased support significantly altered not only  
36 their relative success in electing MPs but also how the British party system operated under  
37 Duverger's law: the third party's' vote share was squeezed, but it was a different third party in  
38 different parts of the country. In the 1980s and 1990s the Liberal Democrats' success was focused on  
39 blocks of constituencies in areas where the Conservative party predominated – mainly in the south  
40 of England, where Labour was pushed into a poor third place in many constituencies. The  
41 Conservative and Labour candidates occupied the first two places in 286 constituencies at the 2010  
42 election, averaging 37.3 and 37.8 per cent of the vote shares respectively; the Liberal Democrats  
43 occupied a poor third place, averaging 17.1 per cent of the votes (Johnston and Pattie, 2011). Most  
44 of those seats were in London, northern England, and Wales. In another 205 constituencies,  
45 however, Conservative and Liberal Democrat candidates occupied the first two places; half of them  
46 were in the Southeast and Southwest regions and most of the remainder in the East and the East  
47 Midlands. Labour came a poor third there, with a mean vote percentage of only 12.7, compared to  
48 48.8 and 32.0 for the Conservatives and Liberal Democrats respectively.  
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53  
54 <sup>1</sup> These data are taken from House of Commons Library (2017a). Detailed sources of voting at each  
55 constituency were obtained for the 2010 and 2015 general elections from Kavanagh and Cowley (2010) and  
56 Cowley and Kavanagh (2015); for 2017 they are taken from House of Commons Library (2017b).

57 <sup>2</sup> Until the early 1980s, the Liberals were the third party in British politics. At the 1983 and 1987 General  
58 Elections, they formed an electoral alliance with the Social Democratic Party, which had split from Labour in  
59 1981. The two Alliance partners merged in 1988 to form the Liberal Democrats.  
60

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3 A third group of constituencies, 94 in 2010 with most of them located in either London or the main  
4 metropolitan centres of northern and midland England, had Labour and the Liberal Democrats  
5 occupying the first two places. The Liberal Democrats performed well there among younger and, in  
6 general, educationally more qualified voters who supported the party's opposition to the Iraq War  
7 and (top-up) university fees. The party's mean vote share in those 94 seats of 29.7 per cent  
8 compared to Labour's 44.6 per cent – with the Conservatives occupying the squeezed Duvergian  
9 poor third place with an average of only 16.9 per cent.  
10

11 Although some analysts characterised British – really English and Welsh – politics as a three-party  
12 system in the twenty-first century's first decade, geographically it was represented by three separate  
13 two-party systems, therefore, the main exception being the eight Welsh constituencies where Plaid  
14 Cymru candidates occupied one of the first two places in 2010 (Johnston and Pattie, 2011). That all  
15 changed at the next two elections – 2010 and 2015 – as it did too in Scotland.  
16  
17

18 Four parties won seats in Scotland in 2010, but there were several separate two-party systems at the  
19 constituency scale, although not all of these, nor their geographies, were as clearly demarcated as  
20 those in England and Wales. As Table 1 shows, in each of the nine constituency types defined by  
21 which parties filled the first two places, those that came first and second predominated with at least  
22 60 per cent of the votes. Except for the two seats won by the SNP with Labour in second place,  
23 however, the two parties occupying the third and fourth places together gained between one-fifth  
24 and one-third of the votes – there was less 'squeezing' of the smaller parties than in England and  
25 Wales. Geographically, although the constituencies in several of the types shown in Table 1 were  
26 concentrated in parts of Scotland there was quite a spatial spread. Most of the seats won by the  
27 Liberal Democrats were in relatively rural and remote parts of Scotland, for example, but they also  
28 won Edinburgh West and East Dunbartonshire; and although four of the SNP's six victories were in  
29 rural north-eastern seats, the party also won Dundee East (the urban constituency held by the  
30 party's leader – Gordon Wilson – in 1974, 1979 and 1983), and Na h-Eileann an Iar.  
31  
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#### 33 **4. The 2015 Election: Stability in the Party System's Core but Major Change in its Periphery**

34

35 The 2015 general election saw considerable change to both the party system and the UK's electoral  
36 geographies – changes that largely came about outwith the core of the long-standing party system.  
37 In terms of United Kingdom vote share, little changed for the Conservatives and Labour: they won  
38 37.0 and 29.7 per cent of the votes respectively in Great Britain in 2010, and 37.8 and 31.2 per cent  
39 in 2015, with few seats changing hands (the Conservatives lost ten seats to Labour, and gained  
40 eight). But much changed in the party periphery (Johnston, Pattie and Manley, 2017). Carrying much  
41 opprobrium for entering a coalition with the Conservatives and then abandoning some of the  
42 policies on which they were elected, the Liberal Democrats' vote share fell from 23.6 to 8.1 per cent,  
43 and they lost 49 of their 57 seats – 27 in England and Wales to the Conservatives and ten to Labour.  
44 That collapse was so extensive that in many constituencies they were relegated to third or fourth  
45 place. In England and Wales they came second to the Conservative candidate in 167 seats in 2010  
46 and to Labour's in a further 72; five years later the comparable figures were 46 and 9.  
47  
48

49 The Liberal Democrats' decline was only partly matched by UKIP's increase; from 3.2 per cent of the  
50 votes in Great Britain in 2010 to 12.9 per cent in 2015. But those votes were fairly evenly distributed  
51 across the country: UKIP won only one seat, and although it came second to the Conservatives in 76  
52 constituencies and to Labour in 44, it was at least 10 percentage points behind the winner in  
53 virtually all of them. The result was fewer marginal constituencies than at any previous UK general  
54 election since 1945 and more safe Conservative and Labour seats (Johnston, Pattie and Rossiter,  
55 2017).  
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3 More safe seats, because of a major change in voting preferences, also characterised Scotland,  
4 where the SNP won half of the votes and all but three of the 59 seats. The Conservatives were  
5 already weak there, reflecting their declining popularity since the Thatcher governments: their vote  
6 share fell by 1.8 percentage points and they retained their one seat. The Liberal Democrats' UK-wide  
7 unpopularity characterised Scotland too: their vote share fell from 18.8 to 7.5 per cent, and ten of  
8 the eleven seats won in 2010 were lost. Almost all of the gains went to the SNP (UKIP's vote share  
9 increased from 0.7 to 1.6 per cent only), and with half of the votes it won all but three seats – an  
10 exaggerated example of the disproportionality that can emerge in fptp systems with such a vote  
11 share depending on the geographies of party support. Further, all but six of the SNP's 56 MPs won  
12 with a majority of 10 percentage points or more. But Labour's was the most dramatic decline in  
13 Scotland. In 2010, it returned 41 of the country's 59 MPs and increased its vote share over 2005 (the  
14 only region in the UK where it did so) by 2.5 percentage points to 42.0 per cent. In 2015 its share fell  
15 to 24.3 per cent, and it returned just one Scottish MP.  
16

### 17 18 **5. And 2017: Scotland Was Different**

19  
20 The 2017 general election was held one year after the UK – but neither Scotland nor Northern  
21 Ireland – voted to leave the European Union. It was called by a Conservative Prime Minister seeking  
22 to enhance her mandate before the Brexit negotiations and obtain a substantial House of Commons  
23 majority that would sustain her government as it introduced the needed legislation to the House of  
24 Commons. The gamble failed: the Conservatives lost their majority, and Labour gained a substantial  
25 number of seats (Ross and McTague, 2017).  
26

27  
28 In Scotland, the SNP suffered a very significant loss of support – from half of the votes in 2015 to  
29 36.9 per cent in 2017. It retained 35 of its 56 seats, however, because of the geographies of its  
30 support and those of its competitors – and in so doing made the incoming Conservative  
31 government's position more difficult than it otherwise might have been.  
32

33  
34 Almost all of England and Wales – the main exception was the small number of Welsh seats where  
35 Plaid Cymru performed well – returned to the predominant two-party system that had apparently  
36 ended in the 1970s. The Liberal Democrats' vote share fell again, slightly, and although they  
37 regained a small number of seats held before the 2015 collapse they did not present a major  
38 challenge to either the Conservatives or Labour. They came second in only 28 constituencies won by  
39 the Conservatives and seven won by Labour. UKIP's vote share collapsed: many seats were  
40 uncontested (206 of the 573 in England and Wales and 49 of Scotland's 59: see Johnston et al., 2017)  
41 and the party won more than 10 per cent of the votes in only two – Thurrock (20.1) and Hartlepool  
42 (11.5). A considerable number of former UKIP voters switched to Labour rather than to the  
43 Conservatives. (Indeed, many more UKIP supporters in 2010 switched to Labour than either  
44 commentators or the parties expected. The Conservatives targeted many Labour-held marginal  
45 seats, hoping to convince those who voted Brexit – a majority in most cases – to vote for the party  
46 that was implementing a 'hard Brexit', but many instead voted against their austerity plans for  
47 pensions and schools and for Labour's proposals to invest more in public services.) Consequently,  
48 Labour held almost all its marginal seats and won many of those the Conservatives were defending.  
49 Both won larger vote shares than at previous contests: Labour's 40 per cent was its best  
50 performance since the two Blair landslides of 1997 and 2001; the Conservatives hadn't exceeded  
51 43.2 per cent since 1979.  
52

53  
54 The main changes in vote shares in Scotland were the fall in the SNP's percentage from 50.0 in 2015  
55 to 36.9 two years later, and the comparable increase in the Conservatives' share – from 14.9 to 28.6:  
56 Labour's share increased slightly (from 24.3 to 27.1) and the Liberal Democrats' fell (from 7.5 to 6.8).  
57 Much of the Scottish campaign focused on independence. The SNP leader, Nicola Sturgeon,  
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3 indicated that the 'hard Brexit' the Prime Minister was seeking would probably result in the SNP  
4 administration in the Scottish Parliament seeking a second referendum on independence once the  
5 outcome of the negotiations with the EU was known, to allow Scottish voters a say on their future –  
6 presented by the SNP as an independent Scotland remaining within the European Union. This was  
7 vigorously opposed by the other three parties, which argued that the electorate did not want  
8 another referendum. The SNP lost 21 seats, very much because of that campaign, including 12 to the  
9 Conservatives.

10  
11 Although the three pro-union parties all gained seats at its expense, nevertheless the SNP retained a  
12 considerable number with relatively low vote shares, and by small majorities. Seventeen were won  
13 with less than 40 per cent of the votes and eight by a majority of less than one percentage point –  
14 the SNP candidate retained North East Fife by a margin of just two votes over his Liberal Democrat  
15 rival.

## 16 17 18 **6. From Votes to Seats in Two-Party and Multi-Party Systems**

19  
20 The SNP won 59 per cent of Scotland's seats in 2017 with just under 37 per cent of the votes,  
21 therefore, a highly disproportionate outcome (a ratio of seats to votes of 1.59, though of course  
22 much smaller than the ratio of 1.89 in 2015 when half of the votes delivered 94.9 per cent of the  
23 seats). By comparison, in England and Wales in 2017 the Conservatives won 53 per cent of the seats  
24 with 44.8 per cent of the votes (a ratio of 1.18) and Labour's ratio was even smaller at 1.05 (44.5 per  
25 cent of the seats and 42.3 per cent of the votes).

26  
27  
28 In England, where there was a stable two-party system at most of the elections since the Second  
29 World War, Figure 1a shows a consistent pattern of seats:votes ratios. The two largest parties both  
30 had ratios exceeding 1.0 at most contests, with the winning party having the largest (compare the  
31 wide gap between the Conservative and Labour ratios favouring the former between 1983 and 1992  
32 with that favouring Labour between 1997 and 2001), whereas the small third party had a ratio of  
33 less than 0.1 until 1992, when its greater success at winning seats initiated an increase, although the  
34 Liberal Democrats' ratio never exceeded 0.4 and rapidly declined in 2015 and 2017. This relatively  
35 consistent picture is very different from that for Scotland (Figure 1b). As the increasingly  
36 predominant party until 2010 Labour had high ratios, whereas the Conservatives' declining  
37 popularity saw their ratios diminish as they became one of the three relatively small opposition  
38 parties between 1987 and 2010. (Over those six elections, the Conservatives averaged 19.2 per cent  
39 of the votes cast, the Liberal Democrats 17.2 and the SNP 19.2.) Ratios close to 1.0 were rare for  
40 those parties then – only the Liberal Democrats achieved it. The 2015 election saw the SNP's ratio  
41 exceed even Labour's greatest achievement, with the other three getting very poor returns – Labour  
42 with 24.3 per cent of the votes won only a single seat. And then, although the gap closed somewhat  
43 in 2017, the fptp system's operation continued to favour the SNP very substantially. The reason for  
44 this is illustrated in Tables 2 and 3, which indicate the percentage of seats won by each party  
45 according to its constituency vote shares at each of the last three elections.

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48 In a two-party system, the existence of only relatively small 'third parties' means that a large party  
49 can expect to win in a constituency where it gains at least 45 per cent of the votes, but very few  
50 where its share is less than that. This was clearly the case in England and Wales in 2017: both the  
51 Conservatives and Labour won most constituencies where they obtained 45-49 per cent of the votes,  
52 but not in those where they gained less (Table 2). That situation differed substantially from the  
53 preceding two elections, when the Liberal Democrats and UKIP provided fairly strong competition in  
54 many seats. In 2010, for example, the Conservatives won 69 of the 80 seats where they gained 40-44  
55 per cent of the votes and 29 of the 65 where their tally was 30-34 per cent (Table 2); Labour similarly  
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won a majority of the seats where its vote share then was 35-39 per cent, though the Liberal Democrats did not (Johnston et al., 2012).

Four parties returned Scottish MPs in 2017, with each winning seats with less than 35 per cent of the votes there; the SNP won more seats than it lost with such percentages (Table 3). Those successes with little more than one-third of the votes reflected a 'divided opposition' across the other three parties. As Table 1 shows, in all three groups of seats won by the SNP in 2017 the third-placed party averaged over 20 per cent of the votes and the third- and fourth-placed together as much as 34 per cent – a very different situation from the preceding election when the third-placed party in SNP-won seats averaged only around 10 per cent of the votes.

There was some discussion, though little formal pressure, suggesting that those opposed to the SNP's policies, particularly on a second independence referendum, should vote for the party best-placed to defeat it in their constituency (on the campaigns, especially through social media, see Ross and McTague, 2017). If this occurred, the concentration of anti-SNP votes on one party could bring about its defeat there. But this seems not to have happened to a sufficient degree to bring that about in many constituencies. This can be illustrated by using the entropy measure of unevenness in a distribution ( $H$ ) to assess the degree to which the non-SNP vote was concentrated on one party in a constituency. With this measure, the larger its negative value the more even the spread of those votes across parties other than the SNP: the smaller the negative value, the more they were concentrated on a single party.<sup>3</sup>

Figure 2 graphs the SNP's share of the votes in each of Scotland's 59 constituencies in 2017 against the entropy measure, separately identifying the seats it won and lost. It won all but one of the seats where it gained more than 40 per cent of the votes (it didn't obtain 50 per cent or more in any, compared to 2015 when it exceeded half of the votes cast in 25 constituencies). The exception was the constituency in that group with the smallest entropy value – Glasgow North East: Labour won with 42.9 per cent of the votes to the SNP's 42.2, a margin of 242; the Conservatives got 12.9 per cent and the Liberal Democrats 2.0 in what had been a traditional Labour safe seat – and where neither of the latter parties achieved a substantial improvement on their 2015 performance.

Among the constituencies where the SNP got between 35 and 39 per cent of the votes, Figure 2 shows that it lost in the four with the smallest entropy values and won the five with the largest. Three of the first four – Moray, Banff & Buchan, and Angus – were won by the Conservatives with over 45 per cent of the votes in each case and with Labour and the Liberal Democrats together gaining no more than 16 per cent: the fourth – Coatbridge, Chryston & Belshill – was a Labour gain with 42.2 per cent. In the five with the highest entropy scores (all held by the SNP with 35-39 per cent of the votes) – Dunfermline & West Fife, East Kilbride, Strathaven & Lesmahagow, Falkirk, Argyll & Bute, and Glasgow North – the third- and fourth-placed parties together won 30.6, 28.3, 28.3, 30.8, and 18.2 per cent of the votes respectively. (In addition, a Green party candidate won 9.7 per cent of the votes in Glasgow North.) Between those two extreme groups with relatively low and high entropy values respectively, the SNP won in all but five seats: three of those five were won with majorities of less than 300, indicative of how a small difference in the distribution of votes across the opposition parties made a difference between victory and defeat for the SNP in such contests.

Finally, the SNP won three seats with less than 35 per cent of the votes. All had relatively high entropy scores and were, in effect, three-party contests where the SNP prevailed by a small margin. In Edinburgh North & Leith it won 34.0 per cent of the votes to Labour's 31.2 and the Conservatives' 27.2; in North East Fife the SNP won 33.0 per cent and the Liberal Democrats 33.0 per cent, and the

<sup>3</sup> The formula for the entropy measure is  $H_j = -\sum (P_{ij} * \text{Log } P_{ij})$  where  $P_{ij}$  is the proportion of voters (other than those who voted SNP) who voted for party  $i$  in constituency  $j$  and  $H_j$  is the entropy value for constituency  $j$ .

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3 Conservatives 24.3; and in Lanark & Hamilton East the SNP, Conservatives and Labour got 32.6, 32.1  
4 and 31.9 per cent of the votes respectively.  
5

6 These results suggest that there was probably tactical voting focused on one of the three other  
7 parties in the seats that the SNP lost, with voters who supported one of those other three in 2015  
8 opting in 2017 for the party they considered best able to defeat the SNP in their constituency. This is  
9 illustrated by Table 4, which is based on a data set combining a number of polls conducted by  
10 YouGov in the last week of the campaign, in which voters were asked how they voted in 2015 and  
11 how they intended to vote in 2017.<sup>4</sup> The figures there show the percentages of respondents who  
12 voted for the named party in the first column according to their 2017 vote intention for the second-  
13 named party, in Scotland as a whole (the column headed 'All'), the constituencies lost by the SNP to  
14 the Conservatives, Labour and the Liberal Democrats respectively (the next three columns), and the  
15 constituencies retained by the SNP. Thus, for example, across Scotland Labour retained the support  
16 of 56.7 per cent of those who voted for it in 2015, but 62.1 per cent in the seats that it won from the  
17 SNP.  
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20 In virtually every case shown the pattern of shifts between 2015 vote and 2017 vote intention is  
21 consistent with the argument that there was tactical voting, with people shifting their support to the  
22 party most likely to defeat the SNP candidate locally.<sup>5</sup> Whereas across Scotland as a whole, 24.1 per  
23 cent of Labour's 2015 voters shifted to the Conservatives, in seats where the Conservatives won it  
24 was 33.8 per cent; similarly, only 5.4 per cent nationally shifted from Labour to the Liberal  
25 Democrats but in the three seats won by the latter from the SNP that increased to 40 per cent. Very  
26 similar patterns occurred with Liberal Democrat voters in 2015: only 47.8 per cent remained loyal to  
27 the party in 2017 across Scotland as a whole, but 76.3 per cent in the three constituencies where  
28 they gained control; and more switched to the Conservatives and Labour respectively in seats that  
29 they won from the SNP than was the case nationally. The only substantial exception to this pattern  
30 was with flows from Conservative voting in 2015 to intending to vote Labour in 2017: the percentage  
31 making that shift was no larger in the seats won by Labour than across all seats – but there was a  
32 much larger (almost five times) shift from the Conservatives to the Liberal Democrats in the three  
33 seats won by the latter than nationally, and a compensating much smaller percentage of  
34 Conservative voters in 2015 remaining loyal two years later. Finally, there were slightly more  
35 defections from the SNP to the Conservatives and Labour respectively in the seats that they won  
36 than nationwide, and a substantially (five-times) larger flow from the SNP to the Liberal Democrats  
37 in the three that changed hands between those two parties.  
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41 This pattern of differential flows between the parties is consistent with tactical voting and suggests  
42 that voters wishing to see their local SNP candidate defeated either calculated for themselves which  
43 other party had the best chance of doing that, and intended to vote accordingly, or were  
44 encouraged to do so by the latter party's canvassers. Some of the differentials were not large,  
45 however, suggesting that such tactical considerations influenced only a small proportion of the  
46 electorate. Nevertheless, that the entropy values shown in Figure 2 were much smaller in some  
47 constituencies than others suggests that tactical voting probably contributed to the SNP's defeat in  
48 at least some of the constituencies lost. Further, given the small majorities for many of the SNP  
49 candidates who retained their seats – eight won by less than one percentage point, and a further  
50 seven by between one and five points – it is likely that more (and not substantially more) tactical  
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53 <sup>4</sup> We are grateful to Prof Ben Lauderdale for providing us with these data.

54 <sup>5</sup> The British Election Study data allow a cross-tabulation of how respondents actually voted in 2017 as well as  
55 2015, but because of a smaller sample size (i.e. of those surveyed at both dates) many of the cells in the flow-  
56 of-the-vote tables (disaggregated by constituency type) are too small to give robust estimates of the pattern.  
57 However, for those where the sample size is sufficiently large to give reasonable estimates the pattern of flows  
58 mirrors that shown in Table 4.  
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3 voting by those who wished to punish the SNP complement of MPs reduced even further without it  
4 losing any more electoral support, such is the sensitivity of the translation of votes into seats to even  
5 minor shifts in the distribution of votes across the parties.  
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7  
8 The result of these shifts was a new electoral geography, though its contours were not entirely clear-  
9 cut. (One clear feature was that the SNP came either first or second in every seat.) Figure 3 shows  
10 two main clusters of seats comprising those with Conservative MPs plus those with SNP MPs and the  
11 Conservatives in second place – along the English border, and in the north-east (where the SNP won  
12 three of its six seats in 2010). The seats contested by the SNP and Labour were concentrated in the  
13 central belt, extending into the Highlands and Islands region, but Labour won only one seat in its  
14 traditional Glasgow heartland (where it lost control of the City Council at the local government  
15 elections in May 2017) as against three in Edinburgh and the Lothians. The SNP-Liberal Democrat  
16 contests were widely dispersed.  
17

## 18 7. Discussion

19  
20 Against the early expectations from the polls and its own hopes the Conservative party failed to win  
21 a majority at the 2017 UK general election. It was the largest party in terms of number of MPs by a  
22 considerable margin – 55 more than Labour – but needed to enter a formal agreement with the  
23 Northern Ireland Democratic Unionist Party to ensure that it could carry its major policies through  
24 the House of Commons.  
25

26  
27 The result in Scotland had a considerable influence on that outcome. Many post-election  
28 commentators pointed to the Conservative party's revival there – it last won at least 13 seats in  
29 Scotland in 1983 – and the important role played by its Scottish leader, Ruth Davidson. Without that  
30 surge in support and, more importantly, MPs a better performance by either the SNP or/and Labour  
31 would have substantially reduced the Conservatives' lead in the House of Commons, making it more  
32 difficult to operate as a minority government. As it is, the thirteen Scottish Conservative MPs are  
33 committed to a less 'hard' version of Brexit than the government was promoting before the  
34 election,<sup>6</sup> and they could have a significant influence on the negotiations.  
35

36  
37 It might have been different. The Conservatives came second to the SNP in a further seven seats,  
38 losing each by a majority of less than ten percentage points, five by less than three points. All but  
39 one of those had relatively high negative entropy values: they were constituencies where the third-  
40 and also sometimes the fourth-placed parties performed relatively well.<sup>7</sup> If further small numbers of  
41 voters there had expressed their opposition to the SNP by voting for the Conservative rather than  
42 the Labour or Liberal Democrat candidate, Theresa May could have gained seven more seats and  
43 with a total of 324 been very close to an overall Commons majority.<sup>8</sup> Such an outcome would have  
44 required more tactical voting than the available data suggest. In most of those seven seats some of  
45 the third- and fourth-placed parties' supporters could have ensured a Conservative victory if they  
46 had voted otherwise. In the recent past the probability of Labour supporters switching to the  
47 Conservatives has been low – reflecting negative attitudes across Scotland to the Conservatives that  
48 were accentuated from the 1980s on – but the voting intention data analysed here show that  
49  
50

51  
52 <sup>6</sup> See their manifesto at [http://www.scottishconservatives.com/wordpress/wp-content/uploads/2017/05/GE2017\\_Manifesto\\_A5\\_Scottish\\_DIGITAL.pdf](http://www.scottishconservatives.com/wordpress/wp-content/uploads/2017/05/GE2017_Manifesto_A5_Scottish_DIGITAL.pdf) (accessed 30 June 2017)

53  
54 <sup>7</sup> The seven, in order of majority starting with the smallest, were: Perth & North Perthshire; Lanark & Hamilton  
55 East; Edinburgh Southwest; Argyll & Bute; Central Ayrshire; North Ayrshire & Arran; and Inverness, Nairn,  
56 Badenoch & Strathspey.

57  
58 <sup>8</sup> With 650 MPs, and with the Speaker independent and not voting, 625 is needed for a majority, but as Sinn  
59 Féin MPs (of which there are currently seven) do not take their seats, 322 seats would in effect constitute a  
60 majority.

1  
2  
3 considerable numbers did in 2017. Labour's vote share changed relatively little across most Scottish  
4 constituencies between 2015 and 2017, but several of those in which it declined substantially –  
5 Aberdeen South, Dumfries & Galloway, Ochil & South Perthshire, and Renfrewshire East (covering  
6 areas where the Conservatives traditionally performed well before the 1980s) – were seats in which  
7 the Conservatives narrowly defeated the SNP. (The largest decline in the Liberal Democrats' vote  
8 share – a drop of 21.1 percentage points – was in Gordon, where the Conservatives unseated the  
9 former SNP First Minister, Alex Salmond.) Conservative voters in 2015 were apparently reluctant to  
10 switch to Labour in 2017, however. Labour came second to the SNP by less than one percentage  
11 point in three seats, for example; the Conservatives averaged 20 per cent of the votes cast there so  
12 if a further small number of them had switched to Labour to defeat the SNP this could have  
13 significantly impacted on the outcome not only in those constituencies but also in the composition  
14 of the House of Commons.  
15

16  
17 The development of the three two-party systems in England and Wales after 1992 owed much to  
18 tactical voting, mainly involving Labour and Liberal Democrat supporters. The pattern of voting in  
19 Scotland in 2017 suggests that it was less pronounced there – which may reflect one or both of  
20 stronger loyalties to a party whatever its local electoral chances alongside the lack of a tradition of  
21 tactical voting, including its mobilisation by the political parties and their allies.  
22

## 23 8. Conclusions

24  
25 Scotland played an important part in determining the political outcome of the 2017 general election.  
26 Without the revival of the Conservative party there and its defeat of SNP candidates in twelve of the  
27 59 constituencies, Theresa May would have found it more difficult to retain the position of Prime  
28 Minister leading a minority government sustained in confidence and supply motions by the  
29 Democratic Unionists. But Scotland could have played an even more important part in determining  
30 the balance of the parties in the House of Commons. A slightly different pattern of (tactical?) voting  
31 across a few constituencies could have increased the complement of Scottish Conservative MPs by  
32 at least half, and ensured a (very small) majority Conservative government; but another slightly  
33 different pattern could have seen more Labour MPs returned. That neither occurred reflects the  
34 detailed geography of party competition. The SNP retained its hold on several seats not so much  
35 because of its own support – which collapsed very substantially in most places – but rather because  
36 the anti-SNP vote was split between two, if not three, of its competitors. Gudgin and Taylor (1979)  
37 described three-party situations as the Achilles Heel of the plurality electoral system. These analyses  
38 of Scotland's four-party situation at the 2017 general election clearly illustrate why.  
39  
40

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**Table 1** Party systems in Scottish constituencies, 2010-2017

Winner	Second	Seats	Mean Vote Per Cent			
			Con	Lab	LD	SNP
<i>2010 general election</i>						
Conservative	Labour	1	38.1	28.9	19.8	10.8
Labour	Conservative	7	25.1	45.8	12.7	14.8
Labour	Liberal Democrat	6	13.5	42.3	29.7	11.2
Labour	SNP	28	10.6	54.4	11.0	21.0
Liberal Democrat	Conservative	4	27.4	15.9	39.9	14.5
Liberal Democrat	Labour	5	15.1	23.8	43.4	14.4
Liberal Democrat	SNP	2	15.5	17.6	44.3	18.7
SNP	Conservative	4	29.6	16.2	12.2	40.0
SNP	Labour	2	9.8	33.1	9.0	41.7
<i>2015 general election</i>						
Conservative	SNP	1	39.8	14.8	2.7	38.3
Labour	SNP	1	17.5	39.1	3.7	33.8
Liberal Democrat	SNP	1	8.9	7.1	41.4	37.8
SNP	Conservative	7	30.9	9.5	8.1	47.7
SNP	Labour	41	11.9	30.0	2.3	52.7
SNP	Liberal Democrat	8	10.3	8.7	33.0	44.6
<i>2017 general election</i>						
Conservative	SNP	13	44.4	16.6	4.4	34.6
Labour	SNP	7	21.0	41.1	2.9	34.6
Liberal Democrat	SNP	4	16.8	13.4	40.1	29.4
SNP	Conservative	9	32.2	21.1	8.0	38.5
SNP	Labour	25	21.1	34.6	3.0	40.4
SNP	Liberal Democrat	1	24.3	9.7	33.0	33.0

**Table 2** The percentage of seats won by each party according to their share of the votes in each constituency at the 2010, 2015 and 2017 general elections: England and Wales

Party Vote %	Conservative		Labour		Liberal Democrat		Plaid Cymru	
	N	Won%	N	Won%	N	Won%	N	Won%
<i>2010 general election</i>								
50<	126	100	56	100	10	100	0	-
45-49	77	98.7	48	100	23	100	0	-
<b>40-44</b>	<b>80</b>	<b>86.3</b>	<b>65</b>	<b>93.8</b>	<b>19</b>	<b>42.1</b>	<b>2</b>	<b>50.0</b>
<b>35-39</b>	<b>65</b>	<b>44.6</b>	<b>74</b>	<b>58.1</b>	<b>27</b>	<b>11.1</b>	<b>2</b>	<b>100</b>
<b>30-34</b>	<b>58</b>	<b>6.9</b>	<b>66</b>	<b>13.6</b>	<b>42</b>	<b>2.4</b>	<b>0</b>	<b>0</b>
25-29	38	0	34	0	73	1.4	3	0
24>	128	0	230	0	379	0	33	0
<i>2015 general election</i>								
50<	184	100	111	100	1	100	0	-
45-49	69	100	47	100	0	-	0	-
<b>40-44</b>	<b>73</b>	<b>82.2</b>	<b>64</b>	<b>89.1</b>	<b>1</b>	<b>100</b>	<b>2</b>	<b>100</b>
<b>35-39</b>	<b>32</b>	<b>46.9</b>	<b>54</b>	<b>27.8</b>	<b>8</b>	<b>50.0</b>	<b>1</b>	<b>100</b>
<b>30-34</b>	<b>38</b>	<b>2.6</b>	<b>38</b>	<b>2.6</b>	<b>14</b>	<b>7.1</b>	<b>1</b>	<b>0</b>
25-29	34	0	37	0	16	0	2	0
24>	143	10	222	0	533	0	34	0
<i>2017 general election</i>								
50<	243	100	223	100	1	100	0	-
45-49	71	73.2	46	58.7	5	80.0	1	100
<b>40-44</b>	<b>54</b>	<b>13.0</b>	<b>39</b>	<b>10.3</b>	<b>5</b>	<b>60.0</b>	<b>1</b>	<b>100</b>
<b>35-39</b>	<b>39</b>	<b>5.1</b>	<b>53</b>	<b>1.9</b>	<b>5</b>	<b>0</b>	<b>1</b>	<b>100</b>
<b>30-34</b>	<b>46</b>	<b>0</b>	<b>52</b>	<b>0</b>	<b>8</b>	<b>0</b>	<b>0</b>	<b>-</b>
25-29	43	0	66	0	10	0	2	50.0
24>	77	0	94	0	539	0	35	0

N – number of constituencies; %Won – percentage of the constituencies won with that vote share. Seats where a party won between 30 and 44 per cent of the votes are shown in bold.

**Table 3** The percentage of seats won by each party according to their share of the votes in each constituency at the 2010, 2015 and 2017 general elections: Scotland

Party Vote %	Conservative		Labour		Liberal Democrat		SNP	
	N	Won%	N	Won%	N	Won%	N	Won%
<u>2010 general election</u>								
50<	0	-	20	100	2	100	0	-
45-49	0	-	11	100	1	100	1	100
<b>40-44</b>	<b>0</b>	-	<b>6</b>	<b>100</b>	<b>3</b>	<b>100</b>	<b>1</b>	<b>100</b>
<b>35-39</b>	<b>1</b>	<b>100</b>	<b>3</b>	<b>100</b>	<b>5</b>	<b>80.0</b>	<b>4</b>	<b>100</b>
<b>30-34</b>	<b>7</b>	<b>0</b>	<b>4</b>	<b>25.0</b>	<b>4</b>	<b>25.0</b>	<b>1</b>	<b>0</b>
25-29	2	0	2	0	1	0	6	0
24>	49	0	13	0	43	0	46	0
<u>2015 general election</u>								
50<	0	-	0	-	0	-	35	100
45-49	0	-	0	-	0	-	9	100
<b>40-44</b>	<b>0</b>	-	<b>0</b>	-	<b>1</b>	<b>100</b>	<b>10</b>	<b>100</b>
<b>35-39</b>	<b>2</b>	<b>50.0</b>	<b>3</b>	<b>33.3</b>	<b>3</b>	<b>0</b>	<b>4</b>	<b>50.0</b>
<b>30-34</b>	<b>2</b>	<b>0</b>	<b>23</b>	<b>0</b>	<b>4</b>	<b>0</b>	<b>1</b>	<b>0</b>
25-29	4	0	14	0	1	0	0	0
24>	51	0	19	0	50	0	0	0
<u>2017 general election</u>								
50<	1	100	1	100	0	-	0	-
45-49	5	100	0	-	1	100	1	100
<b>40-44</b>	<b>7</b>	<b>85.7</b>	<b>3</b>	<b>66.7</b>	<b>1</b>	<b>100</b>	<b>18</b>	<b>94.4</b>
<b>35-39</b>	<b>1</b>	<b>100</b>	<b>14</b>	<b>28.6</b>	<b>1</b>	<b>100</b>	<b>23</b>	<b>60.9</b>
<b>30-34</b>	<b>6</b>	<b>0</b>	<b>13</b>	<b>0</b>	<b>2</b>	<b>50.0</b>	<b>13</b>	<b>23.1</b>
25-29	10	0	7	0	0	0	3	0
24>	29	0	21	0	54	0	1	0

N – number of constituencies; %Won – percentage of the constituencies won with that vote share. Seats where a party won between 30 and 44 per cent of the votes are shown in bold.

**Table 4** Inter-party flows of the vote between 2015 and 2017  
by constituency type (percentages of those voting for the party in 2015)

Vote 2015	Vote Intention 2017	Constituency Type				
		All	S-C	S-L	S-LD	S-S
Labour	Labour	56.7	45.9	62.1	56.0	57.8
Labour	Conservative	24.1	33.8	18.9	0.0	24.3
Labour	Liberal Democrat	5.4	2.9	7.6	40.0	4.1
Conservative	Conservative	87.2	90.7	91.5	67.4	87.1
Conservative	Labour	2.9	3.0	2.8	7.0	2.5
Conservative	Liberal Democrat	2.4	0.7	0.0	11.6	2.9
Liberal Democrat	Liberal Democrat	47.8	29.4	37.5	76.3	39.8
Liberal Democrat	Conservative	30.0	42.6	31.3	17.2	36.2
Liberal Democrat	Labour	10.6	11.8	18.8	3.2	11.2
SNP	SNP	77.8	79.6	78.1	78.0	77.8
SNP	Conservative	6.2	8.5	5.5	6.4	5.4
SNP	Labour	9.3	6.2	11.4	6.4	10.0
SNP	Liberal Democrat	1.3	0.8	0.5	6.4	0.9

Key to Constituency Types: All – all constituencies; S-C – won by SNP in 2015 and Conservative in 2017; S-L – won by SNP in 2015 and Labour in 2017; S-LD – won by SNP in 2015 and Liberal Democrat in 2017; S-S – won by SNP in 2015 and 2017

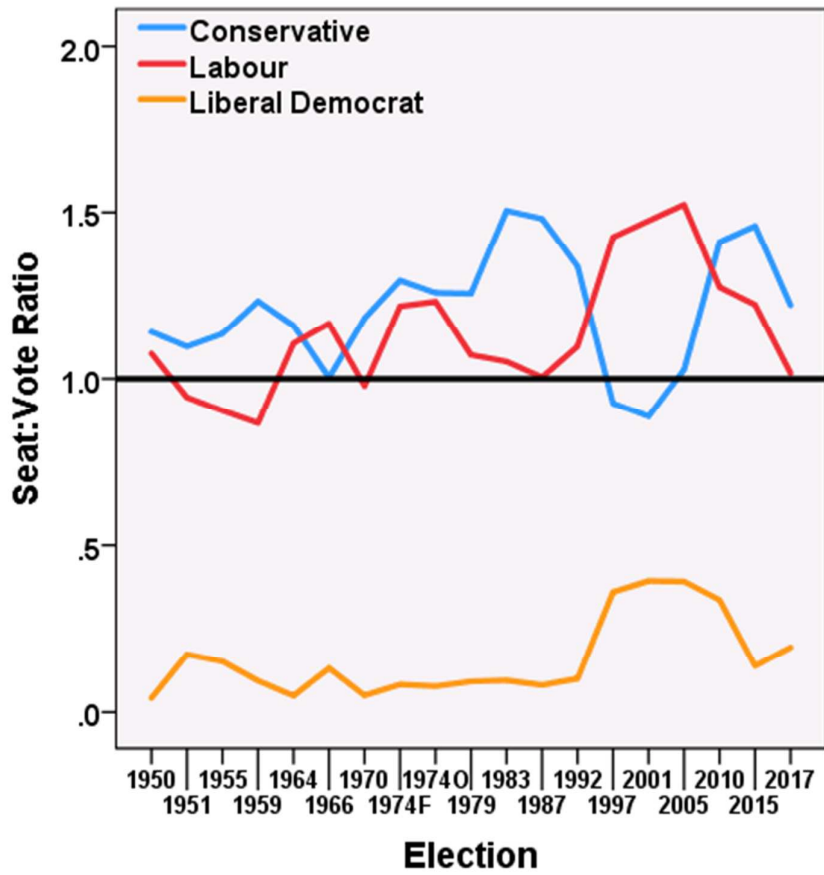


Figure 1a The seats:votes ratios for political parties at general elections since 1950: England

View Only

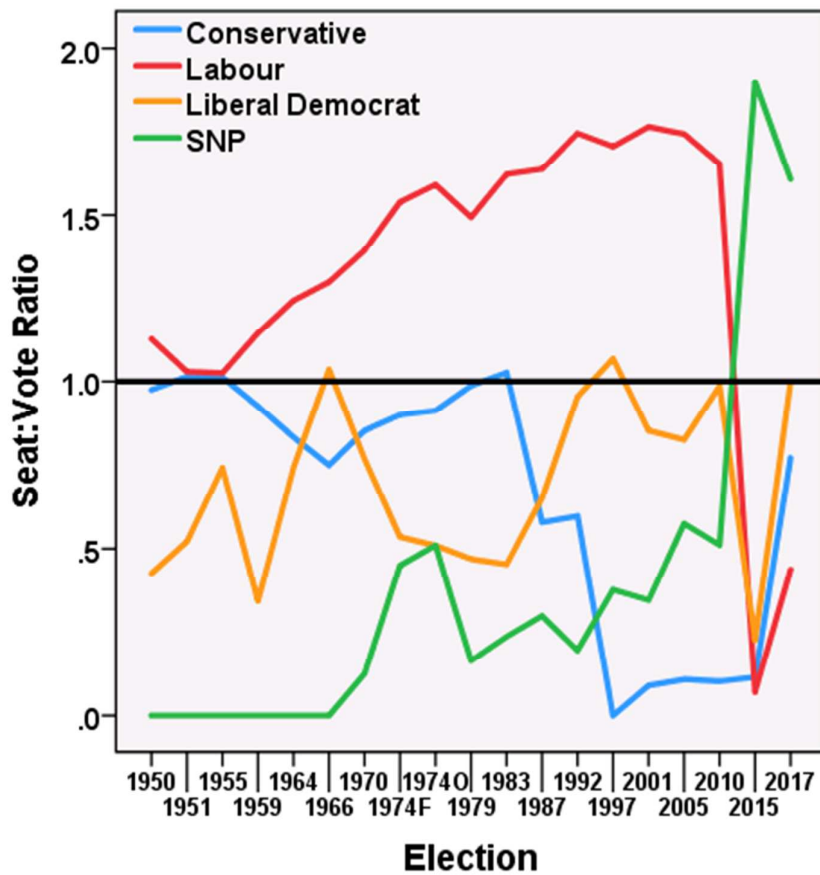


Figure 1b The seats:votes ratios for political parties at general elections since 1950: Scotland

Review Only



**Figure 3** Map of Scottish constituencies showing which parties came first and second at the 2017 general election

