SHORT 1000 WORD SUMMARY

Background

The project was designed to contribute to debates about the distribution of social capital in Britain and its effects on civic and political participation using innovative network methods. In particular it explored the nature of political activism, the characteristics of activists, and their social networks.

A multi-method design involved secondary analysis of panel data (from the British Household Panel Survey (BHPS), waves 1991-98), collection and analysis of social network information from three organizations, and life history interviews with a selection of organizational members. Particularly distinctive methodologically was its application of social network methods, an approach much neglected in the UK. Theoretically, we sought to develop an analysis of political activism that challenges both individualistic interpretations of activism (such as that derived from rational choice theory) and purely institutionalist accounts of activism, by stressing the contextual nature of activism in terms of social networks and cultural habitus.

Methods

The research was conducted in three distinct and complementary phases.

First, we used the BHPS to examine memberships of voluntary associations, exploring fluctuation and turnover in the membership of associations, the relationship between political identification and associational membership, and the relationship between friendship and associational membership.

Second, we carried out detailed case studies of the social networks of three political organisations in the Manchester area, a branch of the Labour Party, a local conservation group, and a branch of an environmental group. We administered two survey instruments, the first comparatively brief and simple which was conducted by post, the second collected more complex network information in a face-to-face interview. These produced information on inter-personal connections, organizational affiliations, political identifications and socio-demographic characteristics of about 300 members.

Third, we conducted 30 life history interviews, with 10 participants from each of the three case study organisations. In these we solicited personal narratives about the purposes, commitments, and preconditions, (including personal connections), for varying levels of activism in organizations over the course of a person’s life.

Results

The BHPS data showed that the aggregate number of memberships remained roughly constant during the 1990s, suggesting no decline of social capital in Britain. However, there was growing social class polarisation of membership, with professionals and managers having increasing numbers of memberships, while among other classes participation has not increased. The very high turnover of memberships during the 1990s was striking. Individuals readily join and leave associations, with only a small proportion retaining particular memberships over a measured five-year period. The extent of churning has been much underestimated previously. Panel studies demonstrate the concurrence of aggregate stability alongside considerable degrees of
fluctuation of behaviour or condition for individuals. Thus, for example, in any one year 45% of Britons have no memberships, but over a five-year period only 15 per cent never have one. This suggests that most people exhibit sporadic commitment to particular organizations or causes, though contrary to common wisdom such fluidity may be positive both for organizational renewal and for the building of social contacts and connections. In addition it suggests that a significant proportion of the currently inactive population is potentially available to be mobilised if issues or circumstances should arise.

Amidst the fluctuating memberships, organizations nevertheless do, and must, recruit some individuals sufficiently stable and committed to conduct their routine and strategic business. Our network methods identified core members, those who have most interpersonal connections with others in the organization, and who do most of the work. However, these members prove not significantly different in their attributes from other members who are peripheral and take little part in activities. While class, education, age, and income are important in predicting who will become members, they make little difference in explaining either how individuals will act or how active they will be. The idea that some individuals are 'activist types' receives no confirmation from life history testimonies, which indicate that most members have been active in a variety of organisations, and do not focus their activism on only one 'cause'. The way they talk about their involvement suggests that those currently in core roles do not see themselves as especially distinctive, largely because they recognise in their own careers and experience that the transformation from passive member to active participant is often highly contingent.

The networks of connections in the three case study groups are very different, reflecting the different organizational structure, level of hierarchy, and their strategic purpose. Nevertheless in none of them are active, core members insulated or disconnected from the wider population. Activists are heavily involved in other groups, they have wide-ranging social networks, they do not form exclusive activist cliques in organisations, and they come into contact with many other people in other associations. Nevertheless civic associations, including political parties and social movement organizations, recruit and retain similar categories of person, broadly defined as salaried middle class. This implies the existence of a relatively socially unified political and civic field across which some people traverse different organisations according to their strategic, social or emotional inclinations. Theoretically, our findings suggest the existence of a political field which is becoming more isomorphic and exclusive. As activists move between organisations, so the skills and dispositions required to be organisational members and activists become more generic. It is likely that this process is self-perpetuating.

Our project indicates the great explanatory benefit of combining data of different types, in this case the interpretation of unique and powerful network information being much aided by situating it in context of national-level panel data and accounts of the experiences and understandings of individuals through narrative life histories.
Background

Our research was distinctive in bringing together a team of sociologists with complementary areas of expertise never previously used to study political activism. Specifically this included experts in stratification and class (Savage, Warde, Tomlinson), cultural divisions (Longhurst, Savage, Warde), consumption (Tomlinson and Warde), and leisure, lifestyle and enthusiasms (Longhurst, Savage, and Warde). The team were also unusual in having complementary research strengths in life history analysis (Longhurst, Savage) and statistical modelling (Tomlinson, Warde). We were able to recruit two outstanding Research Associates to work on this project whose skills were perfectly suited to the needs of the project. Tampubolon drew on his experience of social network analysis from his doctoral research to take responsibility for the network analysis, and in addition he carried out most of the statistical analysis of the British Household Panel Study. Ray’s doctoral research using life history methods and case study analysis allowed her to take full responsibility for administering research on the case study organisations. In addition her knowledge of quantitative data analysis allowed her to work closely with Tampubolon. Both became full members of the research team and have played a key role in writing up and disseminating the findings.

The project was designed to break new ground in a number of ways. Network methods demand substantial technical expertise as well as a research design that allows information on a large proportion of the relevant population to be gathered (so that the networks of a large proportion of the relevant population to be recorded so researchers can be confident that networks are sufficiently mapped). Our decision to collect systematic quantifiable information on the networks of members of different case study organisations has never been attempted before in the UK. In addition, our secondary data analysis on political activism from the BHPS (as far as we know, the first attempt to use the BHPS to study political activism) and the collection of life histories of activists allowed us to integrate our network data with other complementary data types.

Finally, we should note that our methodological interests were related to our theoretical concerns to develop an analysis of political activism that challenges both individualistic interpretations of activism (such as that derived from rational choice theory), and institutionalist accounts of activism, by demonstrating the contextual nature of activism. Of particular relevance here was our application of Bourdieu’s cultural analysis to the study of political activism (again, a relatively novel concern, though for a general overview see Crossley 2002)

Objectives

Our objectives (specified in our proposal, under section 17) have been met, in the following ways:
1. We have conducted innovative social network analysis and life histories. Social network analysis was conducted with BHPS data, and through a two-wave survey of selected case study organisations. Life histories were conducted with activists chosen from our case study organisations. Further details are included below
2. We used the BHPS to examine the boundaries between the politically active and inactive, and the dimensions of activism, using data from Wave 1 (1991) to Wave 7 (1998). This has led to three papers which have been accepted in leading refereed journals (Ray et al, 2002; Warde et al, 2002a and 2002b).
3. We carried out detailed case studies of three organisations in the Manchester area. These were of a branch of the Labour Party (with 128 members), a local conservation group (121 members), and a branch of an environmental group (37 members). We originally planned to study a fourth group, a branch of the Conservative Party, but after protracted negotiation the Party ultimately refused to give us access, (wrongly) claiming that the Data Protection Act did not allow them to release data on their members. We also conducted an initial postal survey of a local residents association. However, an internal feud within the association prevented us from conducting the follow up phases of the research. Because this took place after our fieldwork had begun we did not have sufficient time to select a further case study. Following discussions with the Programme Director, we decided to compensate by carrying out more intensive case study research than we originally anticipated in the remaining three organisations. Specifically, we conducted a two wave, rather than one wave survey (see below), which involved face to face interviews as well as the postal questionnaires originally envisaged. We were therefore able to gather more material on the membership of the three case study organisations than we originally expected, which proved invaluable, substantively and theoretically, more than compensating for the absence of a fourth case study. This phase of the research has led to one forthcoming publication in a refereed journal and one being considered for publication as part of conference proceedings.

4. We conducted 10 life history interviews with members of each case study organisation and thus conducted thirty, rather than forty interviews. This was because (a) we only were able to carry out the research on three case study organisations, and (b) because of the additional resources used up in conducting face to face interviews. Although this phase of the research was the last to be conducted (with the interviews only being completed in January 2002) we already have one paper being considered for publications from conference proceedings (Ray and Longhurst, 2002).

5. We have written up our results in ways that allow us to engage with debates about social capital and political activism. We are developing a theoretical position on political activism based on our case studies but with wider ramifications (discussed under general findings below), which is developed in several of the recent papers and which we plan to write up as a journal article.

In summary, although our objectives were ambitious, we have shown that social network methods can be used to study political activism. We are pleased that each different phase of our research was productive and was completed effectively and that, taken in combination, have proved highly complementary. We are confident that our emerging theoretical position on political activism will integrate findings from all the phases and will command major interest.

**Methods**

Our research was in three phases:

*Analysis of the BHPS.* This involved secondary data analysis and proceeded smoothly during 2000. We examined data on membership of voluntary associations, and carried out cluster analysis to show how different various types of membership were. We also studied fluctuation and turnover in the membership of associations, the relationship between political identification and associational membership, and the relationship between friendship and associational membership.

*Network Studies.* This was a particularly important part of our research, and we regard its successful accomplishment as a major achievement. It generated information never (to our knowledge) previously obtained through fieldwork methods in British social science. As we stated in the proposal, network methods demand a high response rate since it is important to assess whether ties are reciprocal (so that if A says she is a friend of B, it is possible to tell whether B also thinks he is a friend of A). Following advice from Prof Bearman and others, we
realised that the strategy proposed in our application (relying on a postal questionnaire alone) was not optimal. It was deemed preferable to follow best practice in network research by presenting members with a roster of names of all co-members of the organisation, so that they could indicate whom they knew and in what capacity. This could not feasibly be conducted by a postal questionnaire since respondents would need to be guided through the schedule and offered encouragement to complete a complex form. We therefore decided on a first phase short postal survey, going to all members of the case study organisations which asked for details on socio-demographic status, and brief network data. This survey was administered in autumn 2000 and we were delighted to obtain an exceptionally high response rate of around 80% for this survey (see the details in Table 1). We then asked all those who returned this postal survey if they would be interviewed face to face where we could ask more detailed questions. This phase of the research obtained a response rate of 42% of the total membership, and was carried out in spring 2001. This research design had the unintentional advantage of allowing us to compare the relative advantages and disadvantages of postal surveys and face to face interviews for obtaining network data. Exploratory statistical analysis on both phases was carried out using SPSS and Stata. Network analysis was conducted on both phases using UCINET.

Qualitative life history interviews. Our thirty interviews were conducted in the autumn and winter of 2001/02. We sampled these in-depth interviews from those completing the face to face network interviews to obtain equal numbers of core activists (very involved in the organisation), those who were partly active, and isolates (members but relatively inactive). Interviews took between 45 minutes and three hours, and were focused on how activists became active, the nature of their political commitment and their social networks. All interviews have been transcribed and coded within Atlas-ti.

Results

We here summarise the main results before drawing some more general conclusions. Our results are linked to our research methods as follows: results drawn from the BHPS are called (P1), from the first postal survey of the organisations (P2a), from the face to face network interview (P2b), and from the face to face life history interviews (P3).

ASSOCIATIONAL MEMBERSHIPS, CIVIL SOCIETY AND POLITICS

The distribution of associational memberships has become a pertinent issue due to growing interest in debates about social capital and civic and political participation. We were able to explore from our data (P1) not only broad trends in membership during the 1990s, but also the nature of overlapping memberships, and the extent to which membership is becoming more socially exclusive.

A particularly important finding (from P1) is that the aggregate number of memberships remained roughly constant during the 1990s, lending support to Hall’s (1999) claims that Putnam’s (1995, 2000) evidence regarding the decline of social capital in the US does not apply in Britain. However, there is growing social class polarisation of membership, with members of the professional and managerial ‘service class’ being ever more likely to be members of associations, whilst manual working class and routine non-manual class memberships have not increased (see Figure 1). In addition, there was a high turnover of membership during the 1990s; only a small proportion of members of organizations in any one wave of the BHPS were members in all other waves. Even for generally ‘popular’ organisations, such as trade unions, tenants associations, religious groups, sports associations and social clubs, less than 10% of the population have been consistent members over a five year period (1991-95). This demonstrates
that most people exhibit sporadic commitment, yet also that the great majority are potentially active.

We also examined whether people concentrated their memberships in particular types of associations, or whether people moved between different types of organisations. Cluster analysis using PRINCALS showed that there were three categories of association attracting different sorts of people: leisure (sports and social clubs), labour (trade unions) and civic (all the remainder, including voluntary service groups, religious groups, tenants associations, PTAs, women’s groups and political parties). Particularly important here is the extent of overlapping memberships amongst civic organisations. There is so much overlapping membership, so many instances of dual membership across all the civic groups that, socially (ie in terms of the personnel composing them), they can scarcely be differentiated. This has implications for the connections between personnel and inter-organisational network opportunities. Thus, leaving aside the special cases of leisure and sports clubs and trade unions, there is a large amount of fluidity in organisational membership. Specifically relating this issue to political activism, it seems that those those who are in formal political organisations, eg political parties, also tend to participate in other social movements and civic associations. In short we have evidence of a fluid field of members and potential members moving in and out of a range of voluntary associations. This picture drawn from the BHPS is replicated in our case studies, where P2A showed that members tended to be co-members of a wide range of other organisations.

The distribution of social capital, measured as associational affiliation, is therefore complex and socially differentiated. Nevertheless, we find evidence towards institutional isomorphism in an increasingly homogenous political field. We see members of the service class moving between a range of different types of organisations, but those from other social classes being less likely to be involved (including in the Labour movement, which historically encouraged working class membership).

MEMBERSHIP AND IDENTIFICATION

One key issue arising is how does this general churning of organisational membership gives rise to stable activism for a small minority. Network methods and life histories can be especially useful in this regard by highlighting how core activists are recruited, allowing us to examine whether core members are different from others. We carried out multivariate analysis (with P2A and P2B) to consider the characteristics of those who were particularly active within the organisations in order to assess the degree of separation between the cores and peripheries of our case study organisations.

We showed that associational activities clustered on three dimensions, with 61% of the total variance being explained. One cluster of activities involves ‘making financial donations’, which stands on its own, seemingly unrelated to the other kinds of activities (in other words, those who give money are not necessarily active in other ways). A second factor groups together activities that might be characterised as utilising more ‘intellectual’ and ‘formal’ modes of action. These include serving as representatives on committees, engaging in established public consultation channels, dealing with the media and with external public relations (i.e. making presentations to other organisations) and conducting research and/ or writing. The third includes forms of activity which are more protest oriented, but which include a range of individualised and ‘direct action’ activities, such as signing petitions, participating in awareness raising or fundraising, attending meetings, attending or organising social events, attending demonstrations and direct actions, as well as purchasing merchandise.

The determinants of these forms of engagement are summarised in Figure 2. We examined whether socio-demographic variables and individual attributes could explain these three modes of activism. Our most striking finding is that none of the standard socio-demographic variables
such as class, education, age, income, gender, organisational effectiveness, having children, and marital status, made any difference to participation in any of the three modes of activism. Whereas these socio-demographic variables are important in predicting who will become members, they make little difference in explaining either how members will act or how active they will become.

There are only two main determinants, then, of the intensity of activism within our case study organisations. The first of these is a network measure; those who are better connected to other members (that it to say, report more ties to other members) are more likely to be active. The second is ‘identification’, that those who identify with and are identified by others with the organisation are more likely to be active. In both cases we can see a mutually reinforcing process between activism, being well-connected members of the organisation, and identification with it. It is not possible to attribute causal priority to any of these as they are all likely to be interconnected, but what is important to note is the extent to which these activists are likely to be self selected as the key variables are not structural ones but those concerned with individual agency.

Our life histories develop this point. There was considerable diversity in how respondents talked about their political identification and there was no simple process by which some people come to identify as activists and other do not. Rather, respondents offer various narratives with associated turning points and dramatic elements. Narratives tended to draw upon general moral discourses that justified activism in a range of possible organisations. Consistent with our findings above, most respondents are active in a variety of organisations and do not focus their activism on one cause. This supports our argument that a relatively unified political field exists in which people can traverse different organisations according to their strategic, social or emotional choice. The most significant difference was between those activists who justified their involvement in terms of public issues of political debate and those whose motivations were more localised and located through their friends and kin. Men tended to offer the first type of story, women the second. Nonetheless, the dominant picture remains one of mutability and fluidity in people’s activism. We find little evidence of a strong activist identity.

RECRUITMENT AND ACTIVISM

In a context of fluid attachments, recruitment and retention become very important. We explored in greater detail how people moved into organisations, evaluating the arguments of network theorists that members tend to draw on pre-existing social ties. Table 2 shows how members were recruited to the case study organisations, and also how the method of recruitment is linked to the network position of members. Table 2 shows that recruitment through impersonal means such as the media or internet is generally rare, and that those recruited in this way tend to be on the fringes of the organisations concerned. Recruitment through personal connections is indeed very important, but there is no evidence that such recruits end up at the cores of the organisation. Rather, those at the core tend to be recruited in ways specific to the type of organisation. In the Labour Party many of the core were allocated to the local branch, presumably after having moved to the local area. In the Conservation group a disproportionately large number of the core actually helped establish the group, whilst in the environmental group the core tends to have been canvassed by the organisation. In short, there seems to be a tendency for the cores to be recruited through mechanisms that set them apart, somewhat, from other members who are recruited through more common means.

This leads us to conclude that local neighbourhood recruitment was relatively unimportant (with the exception of the conservation group which did use localised means of recruitment). Because recruitment was often based around people taking their existing membership or commitment
with them when they moved to their local branches there is little evidence of any of the organisations, even the local Labour Party branch, drawing strongly on localised networks.

**SOCIAL NETWORKS WITHIN ORGANISATIONS**

We were able to identify clearly the nature of the networks within the three organisations. Graphical representations of the ties effected through mutual discussion of organisational issues, are shown in Figures 3, 4 and 5. The members of each network in Figures 3-5 were categorised into three types: members of the core (defined as those with reciprocal ties to at least five other members), members of the periphery (with ties to less than five but at least one other member), and isolates (those who are connected to no other members).

Figure 3, showing the network within the Labour Party branch, reveals a high proportion of isolates. This is the case for nearly two-thirds of the Labour Party members, compared to just over half of the conservation group and under a third of the environmental group. The core of the Labour Party network consists of nine people (9% of the total membership) and ties from the core go to other core members as well as to members of the peripheral group. There is no evidence of factionalism within the organisation, since core members discuss with other core members, and there are no strong internal cleavages. It does appear that there is a relatively tight inner core of five people, however, each of whom tends to communicate with different members of the peripheral group. Many ties go from the core to the periphery, implying that the core mobilise peripheral members as necessary, and there are also incoming ties from the periphery to the core. There appears to be a cohesive hierarchical structure within this organisation.

The other two groups have different structures. Figure 4 shows the environmental group as more dense, with fewer isolates and a larger core of eleven members (37% of the total group). Interestingly, all core members communicate with one of their number (no. 7 in the diagram). One of the distinctive features of this network is its layered hierarchy, with no. 7, earlier an area coordinator between local groups, communicating primarily with the leaders of each local group, who in turn communicate with their respective members.

We have, of course, examined only three specific groups, yet two intriguing common features emerged. Firstly, there is little evidence of cliques forming. Each group has a core where key activists exchange information with each other, with little friction between them and who communicate with more isolated members. Secondly, cores are weakly bounded with slight evidence of social closure against peripheral members, for instance there being slight over-representation of men and of the professional and managerial service class.

Evidence from P2B allows us to consider whether networks formed in the course of conducting organisational business overlap with networks of friendship, kinship, co-membership of other organisations and leisure pursuits. If we take the question ‘with whom do you discuss issues to do with the organisation?’ as a good indicator of the network centrality of members, then around one third to one fifth of leisure, friendship and kin ties overlap. There are also some interesting differences: the discussion partners of Labour Party members are less likely to be friends, or co-members of another organization, or to be met outside of the Party context than was the case for the environmental group.

Finally, the life histories indicate how different types of people talk about their involvement. What is striking is that members of cores do not define themselves as especially distinctive compared to those who are partial activists or isolates. They talk rather about the contingencies which transform their membership into active participation at the core. Once they have been placed at the core through these contingent means, they then frequently develop a sense of their own importance to their organisation which can persist and set them apart from other members.
Whilst the core members are not fundamentally different from those on the periphery, they therefore develop stronger kinds of personal identification with the organisation over time.

**GENERAL RESULTS**

Our results offer a distinctive interpretation of the dynamics of political activism in the UK. We do not see the small numbers of people who are members of political parties or campaigning pressure groups as disconnected from the rest of the population. There is much evidence that activists are involved in other groups, that they have wide ranging social networks, that they do not form exclusive activist cliques within organisations, and that they come into contact with a wide range of people. In this respect activists can be seen as well connected with a much wider population, and thus concerns regarding declining levels of democratic participation may seem displaced.

However, this much larger population that activists are connected with is not the population as a whole: it is rather a broadly defined middle class, based primarily in the professional and managerial service class and stretching into the higher echelons of the intermediate class. All parts of our research strongly indicate that there is a major, growing, class division in membership and activism. We are particularly struck by the almost total absence of manual workers and lower level white collar workers from our case study organisations, including the Labour Party where historically they have been present.

Our findings pose problems for dominant theoretical traditions exploring political mobilisation. One of the virtues of our approach is that it allows greater understanding of the mechanisms of mobilisation. Individual resources appear important in permitting some kinds of people to become members, but make little difference to how active they become. Resource mobilisation perspectives, especially those focusing on network processes, such as Macadam, appear most useful in drawing attention to the processes by which some types of members become enlisted into central roles. Our life history accounts, however, emphasise the degree of individual agency and contingency affecting people’s participation in any one organisation, and suggest a ‘vacancy chain’ (White 1973) whereby a person’s enlistment into an organisation is the result of requirements to fill a ‘hole’, or absence, within the organisation structure. Our results also lead us to see the pertinence of Bourdieu’s (1984) approach to the political field, which we see as increasingly *isomorphic* and *exclusive*. This may be usefully combined with elements of resource mobilisation theory. Like Bourdieu we do not detect major fractures between different types of activists, but rather between an active middle class and the excluded working classes. We see this process as being driven by complex processes of turnover, activist self-selection, and the generation of an isomorphic organisational habitus. As activists move between organisations, so the skills and dispositions required to be organisational members and activists become more generic. What characterises members of any group is less the passions attaching to the particular enthusiasm of that organisation, and more the generic concerns that they have. In this process organisational habitus become increasingly alike as common ways of operating are developed, based on conventional procedures (meetings, newsletters, elected officers, regular meetings, subscriptions, conferences etc). These habitus overlap with the occupational habitus of the professional and managerial middle class which similarly require meetings, officers, etc.

It is likely that this process is self-perpetuating. Given high levels of membership turnover, those people joining organisations who do not feel they share the values, expectations or dispositions of existing members are more likely to drop out. Those who remain are more likely to be similar
to those who are already members. Through this mechanism increasing homophily in organisational membership can be predicted. This latter point is consistent with our findings from the BHPS, though we would need comprehensive longitudinal network data to establish it.

We note finally that our research testifies to the general significance of panel studies in demonstrating the coexistence of general aggregate or institutional stability and considerable fluctuation of behaviour and condition for individuals. Roughly constant aggregate levels of associational membership coexist with much fluidity of membership among respondents to the BHPS. Our project also indicates the great profit to be had from the analysis of a combination of data of different types, in this case of panel data, network data and life histories. Interpretation of the network information was particularly helped by scrutiny of the experiences and understandings displayed in the narrative life histories.

**Activities**

We conducted regular research team meetings in Manchester throughout the period of the research (expedited by Warde’s appointment to a post at Manchester in the early stages of the research). We have maintained good relations with our three case study organisations and are making arrangements to report back our results. We have been actively involved in disseminating our findings, with six conference and three seminar presentations so far. In addition, in accordance with our proposal, we are preparing a workshop on the use of network approaches in which Prof Bearman is to speak. We have maintained intellectual contact with other teams using network analysis within the Democracy and Participation initiative.

**Outputs**

The data files have been made available to the ESRC data archive at Essex University. Regard database has full details of six conference papers and one paper already published in an academic refereed journal (Warde and Tampubolon in *Sociological Review*). Three papers have been accepted in refereed journals.


A further two papers have been written and are being considered for publication as conference proceedings:

All of these papers are available from the authors. A further paper is being prepared as a summary of the main findings which will be presented as a major position paper and will be submitted to the *American Journal of Sociology* following its presentation at the 2003 American Sociological Association Conference.

We anticipate further possible publications arising out of the conference on network analysis to be held at Manchester University in November 2002.

**Impacts**
Our research has generated significant interest in the applicability of social network methods within the Democracy and Participation initiative and beyond. We have discussed our methods with six other research teams in the programme and in addition Dr Ray has made a presentation on our research methods to graduates at Sheffield University.

**Further Research Priorities**

We believe we have demonstrated the viability of network methods. It is possible to collect high quality network data on case study organisations (which need not be confined to political organisations) and we hope that this example will help popularise network methods in general. We think that further developments in longitudinal network analysis would allow elaboration of the arguments developed in this project.

Substantively, we suggest a need to focus more on the longitudinal aspects of participation. The volatility in memberships suggests that more attention might be paid to the ways in which organizations attempt, and fail, to retain members, for while we know a lot in detail about recruitment, we know little about lapsed membership. This would allow us to develop a more processual account of activism that does not reduce involvement to the individual attributes of members or to the institutional structures of organisations themselves. We should explore the ways in which networks within organizations change over time. This might be done through replication studies or though use of panel designs which pay more attention to network variables.

**References**


FIGURE 1
Class, Gender & Volume in Social Capital in Britain in 1991-7

Year

Numbers of types of association joined


Female

Male

routinenonmanual
skilled
foreman
semiorunskilled
smallproprietors
service
routinenonmanual
foreman
semiorunskilled
smallproprietors
service
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<tr>
<th>Organisation</th>
<th>Deceased</th>
<th>Inapplic.</th>
<th>Moved</th>
<th>No such address</th>
<th>Refused / unable to complete</th>
<th>No response</th>
<th>Returned complete</th>
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<td>Urban wildlife group</td>
<td>0</td>
<td>4</td>
<td>2</td>
<td>0</td>
<td>5</td>
<td>21</td>
<td>9</td>
</tr>
<tr>
<td>Residents’ group regular subscribers</td>
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<td>4</td>
<td>7</td>
<td>0</td>
<td>11</td>
<td>16</td>
<td>2</td>
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<td>10</td>
<td>41</td>
<td>1</td>
<td>10</td>
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<td>3</td>
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<td>0</td>
<td>6</td>
<td>19</td>
<td>10</td>
</tr>
<tr>
<td>Environmental group</td>
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<td>0</td>
<td>0</td>
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<td>2</td>
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Table 2: Network positions by recruitment and length of membership

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<th></th>
<th>Labour</th>
<th>Conservation</th>
<th>Environmental</th>
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<tbody>
<tr>
<td></td>
<td>Core</td>
<td>Per</td>
<td>Isol</td>
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<tr>
<td>N (total = 236)</td>
<td>9</td>
<td>26</td>
<td>67</td>
</tr>
<tr>
<td>CONTRIB TO ESTABLISHMENT %</td>
<td>11</td>
<td>10</td>
<td>9</td>
</tr>
<tr>
<td>Personal connections %</td>
<td>22</td>
<td>42</td>
<td>24</td>
</tr>
<tr>
<td>Particip in event %</td>
<td>12</td>
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<td>40</td>
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<tr>
<td>Informed by media %</td>
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<td>8</td>
<td>21</td>
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<tr>
<td>Canvassed %</td>
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<td>10</td>
<td>20</td>
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<td>Alloc to group %</td>
<td>33</td>
<td>12</td>
<td>13</td>
</tr>
</tbody>
</table>

LENGTH (N (total = 222))

<table>
<thead>
<tr>
<th></th>
<th>Labour</th>
<th>Conservation</th>
<th>Environmental</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Core</td>
<td>Per</td>
<td>Isol</td>
</tr>
<tr>
<td>N (total = 222)</td>
<td>9</td>
<td>26</td>
<td>64</td>
</tr>
<tr>
<td>Less than 2 years %</td>
<td>0</td>
<td>4</td>
<td>9</td>
</tr>
<tr>
<td>2-5 years %</td>
<td>11</td>
<td>27</td>
<td>45</td>
</tr>
<tr>
<td>5-10 years %</td>
<td>22</td>
<td>8</td>
<td>14</td>
</tr>
<tr>
<td>More than 10 years %</td>
<td>67</td>
<td>62</td>
<td>31</td>
</tr>
</tbody>
</table>

Notes:

Read percentages down the columns. Percentages do not add up to 100 since more than one mode of recruitment could be mentioned, or none mentioned.

Core - members discuss issues with 5 or more other members
Per (periphery) - members discuss issues with between 1-4 other members
Isol (isolate) – members do not discuss issues with any other members

Figure 2: A model of activism
ACTIVISM

INTELLECTUAL

COREMEMBER

INDIVIDUAL

FINANCIAL

ORG IDENTITY

Younger

Individually effective

Length of time in organisation
Figure 3: Communication networks within the Labour Party
Figure 4: Communication networks within the environmental group
Figure 5: Communication networks within the conservation group
CODEBOOK

CODE BOOKS FOR THE FOUR DATAFILES ARE AS FOLLOWS
SOCDEM.SAV – p 2
INTERVIEW.SAV – p 41
NETIN.SAV – p 51
NETOUT.SAV – p 56

COMMENTS AND PROGRAMMES FOR NETWORK ANALYSIS – P 62

This documentation comes in two parts: data and programs. Network data from the postal questionnaire (in socdem.sav) and the face to face interviews (interview.sav, netin.sav and netout.sav) are described. The choice of format for these data is very much depends on the analysis, therefore programs for network analysis developed by Mr Gindo Tampubolon are also included.

Files documentation
Each variable is described in the following format:
Questionnaire or interview number, variable name in red, description or label and possible values including missing values.

Prepared by Mr Gindo Tampubolon, December 2002
List of variables on the working file: SOCDEM 10-12-01

**id :: respondent id**
- range: [1, 527]
- unique values: 292
- coded missing: 0 / 292

**org :: organisation type**
- range: [1, 4]
- unique values: 4
- coded missing: 0 / 292

<table>
<thead>
<tr>
<th>tabulation: Freq.</th>
<th>Numeric</th>
<th>Label</th>
</tr>
</thead>
<tbody>
<tr>
<td>102</td>
<td>1</td>
<td>labour party</td>
</tr>
<tr>
<td>94</td>
<td>2</td>
<td>conservation</td>
</tr>
<tr>
<td>30</td>
<td>3</td>
<td>environmental</td>
</tr>
<tr>
<td>66</td>
<td>4</td>
<td>residents</td>
</tr>
</tbody>
</table>

**yrsmsn :: q1 length of membership**
- range: [1, 5]
- unique values: 5
- coded missing: 6 / 292

<table>
<thead>
<tr>
<th>tabulation: Freq.</th>
<th>Numeric</th>
<th>Label</th>
</tr>
</thead>
<tbody>
<tr>
<td>13</td>
<td>1</td>
<td>- 1 yr</td>
</tr>
<tr>
<td>26</td>
<td>2</td>
<td>1-2 yrs</td>
</tr>
<tr>
<td>87</td>
<td>3</td>
<td>2-5 yrs</td>
</tr>
<tr>
<td>66</td>
<td>4</td>
<td>5-10 yrs</td>
</tr>
<tr>
<td>94</td>
<td>5</td>
<td>10 yrs +</td>
</tr>
</tbody>
</table>

**contin :: q2 membership continuous**
- range: [1, 2]
- unique values: 2
- coded missing: 12 / 292

| tabulation: Freq. | Numeric | Label | |
|------------------|---------|-------||
| 254              | 1       | yes   | |
| 26               | 2       |       | |

**estab :: q3 joined through contributing to establishment**
- range: [0, 1]
- unique values: 2
- coded missing: 0 / 292

| tabulation: Freq. | Numeric | Label | |
|------------------|---------|-------||
| 266              | 0       | no    | |
| 26               | 1       | yes   | |

**connec:: q3 joined through personal connections**
- range: [0, 1]
- unique values: 2
- coded missing: 0 / 292

| tabulation: Freq. | Numeric | Label | |
|------------------|---------|-------||
| 163              | 0       | no    | |
| 129              | 1       | yes   | |

**event :: q3 joined through participation in event**

C:\My Documents\research\whiteley\gindo-end.doc2
QUESTIONNAIRE

range: [0,1]  
unique values: 2  
coded missing: 0 / 292

<table>
<thead>
<tr>
<th>Freq.</th>
<th>Numeric</th>
<th>Label</th>
</tr>
</thead>
<tbody>
<tr>
<td>251</td>
<td>0</td>
<td>no</td>
</tr>
<tr>
<td>41</td>
<td>1</td>
<td>yes</td>
</tr>
</tbody>
</table>

media :: q3 joined through informed by media  
range: [0,1]  
unique values: 2  
coded missing: 0 / 292

<table>
<thead>
<tr>
<th>Freq.</th>
<th>Numeric</th>
<th>Label</th>
</tr>
</thead>
<tbody>
<tr>
<td>246</td>
<td>0</td>
<td>no</td>
</tr>
<tr>
<td>46</td>
<td>1</td>
<td>yes</td>
</tr>
</tbody>
</table>

internet :: q3 joined through informed by internet  
range: [0,1]  
unique values: 2  
coded missing: 0 / 292

<table>
<thead>
<tr>
<th>Freq.</th>
<th>Numeric</th>
<th>Label</th>
</tr>
</thead>
<tbody>
<tr>
<td>289</td>
<td>0</td>
<td>no</td>
</tr>
<tr>
<td>3</td>
<td>1</td>
<td>yes</td>
</tr>
</tbody>
</table>

canvas :: q3 joined through canvassed by org  
range: [0,1]  
unique values: 2  
coded missing: 0 / 292

<table>
<thead>
<tr>
<th>Freq.</th>
<th>Numeric</th>
<th>Label</th>
</tr>
</thead>
<tbody>
<tr>
<td>234</td>
<td>0</td>
<td>no</td>
</tr>
<tr>
<td>58</td>
<td>1</td>
<td>yes</td>
</tr>
</tbody>
</table>

alloc :: q3 joined through being allocated to group  
range: [0,1]  
unique values: 2  
coded missing: 0 / 292

<table>
<thead>
<tr>
<th>Freq.</th>
<th>Numeric</th>
<th>Label</th>
</tr>
</thead>
<tbody>
<tr>
<td>277</td>
<td>0</td>
<td>no</td>
</tr>
<tr>
<td>15</td>
<td>1</td>
<td>yes</td>
</tr>
</tbody>
</table>

sought :: q3 joined through seeking out group  
range: [0,1]  
unique values: 2  
coded missing: 0 / 292

<table>
<thead>
<tr>
<th>Freq.</th>
<th>Numeric</th>
<th>Label</th>
</tr>
</thead>
<tbody>
<tr>
<td>285</td>
<td>0</td>
<td>no</td>
</tr>
<tr>
<td>7</td>
<td>1</td>
<td>yes</td>
</tr>
</tbody>
</table>

miss :: q3 no joining mode given  
range: [0,1]  
unique values: 2  
coded missing: 0 / 292

<table>
<thead>
<tr>
<th>Freq.</th>
<th>Numeric</th>
<th>Label</th>
</tr>
</thead>
<tbody>
<tr>
<td>279</td>
<td>0</td>
<td>no</td>
</tr>
<tr>
<td>13</td>
<td>1</td>
<td>yes</td>
</tr>
</tbody>
</table>

C:\My Documents\research\whiteley\gindo-end.doc3
QUESTIONNAIRE

fam :: q4 recruited by family in h/hold
   range: [0,1]
   unique values: 2
   coded missing: 0 / 292
   tabulation: Freq.  Numeric  Label
               278   0  no
               14    1  yes

xtrafam :: q4 recruited by family outside h/hold
   range: [0,1]
   unique values: 2
   coded missing: 0 / 292
   tabulation: Freq.  Numeric  Label
               294   0  no
               8     1  yes

work :: q4 recruited by work colleagues
   range: [0,1]
   unique values: 2
   coded missing: 0 / 292
   tabulation: Freq.  Numeric  Label
               283   0  no
               9     1  yes

frien :: q4 recruited through close friends
   range: [0,1]
   unique values: 2
   coded missing: 0 / 292
   tabulation: Freq.  Numeric  Label
               252   0  no
               40    1  yes

acquain :: q4 recruited through acquaintances
   range: [0,1]
   unique values: 2
   coded missing: 0 / 292
   tabulation: Freq.  Numeric  Label
               258   0  no
               34    1  yes

neigh :: q4 recruited through neighbours
   range: [0,1]
   unique values: 2
   coded missing: 0 / 292
   tabulation: Freq.  Numeric  Label
               266   0  no
               26    1  yes

orgmem :: q4 recruited through co-members other orgs
   range: [0,1]
   unique values: 2
   coded missing: 0 / 292
   tabulation: Freq.  Numeric  Label
               241   0  no
QUESTIONNAIRE

51   1 yes

othtie :: q4 recruited through other kinds ties
range: [0,1]
unique values: 2  coded missing: 0 / 292

  tabulation:
  Freq.  Numeric Label
  289     0    no
  3       1    yes

orga :: q5 recruited through org 1
orgb :: q5 recruited through org 2
orgc :: q5 recruited through org 3
orgd :: q5 recruited through org 4
orge :: q5 recruited through org 5
orgf :: q5 recruited through org 6

netorg :: q6 use internet for org
range: [1,2]
unique values: 2  coded missing: 10 / 292

  tabulation:
  Freq.  Numeric Label
  33     1    yes
  249    0    no

network :: q6 use internet for work
range: [1,2]
unique values: 2  coded missing: 14 / 292

  tabulation:
  Freq.  Numeric Label
  113    1    yes
  165    0    no

netoth :: q6 use internet for other
range: [1,2]
unique values: 2  coded missing: 17 / 292

  tabulation:
  Freq.  Numeric Label
  135    1    yes
  140    0    no

offic :: q8 held office
range: [1,2]
unique values: 2  coded missing: 8 / 292

  tabulation:
  Freq.  Numeric Label
  51     1    yes
  233    0    no

recoff :: q9 held office in past year

C:\My Documents\research\whiteley\gindo-end.doc5
**QUESTIONNAIRE**

- **range:** [1, 2]  
  - **unique values:** 2  
  - **coded missing:** 242 / 292

  **tabulation:**
<table>
<thead>
<tr>
<th>Freq.</th>
<th>Numeric</th>
<th>Label</th>
</tr>
</thead>
<tbody>
<tr>
<td>25</td>
<td>1</td>
<td>yes</td>
</tr>
<tr>
<td>25</td>
<td>0</td>
<td>no</td>
</tr>
</tbody>
</table>

- **activ:** q10 how active  
  - **range:** [0, 3]  
  - **unique values:** 4  
  - **coded missing:** 69 / 292

  **tabulation:**
<table>
<thead>
<tr>
<th>Freq.</th>
<th>Numeric</th>
<th>Label</th>
</tr>
</thead>
<tbody>
<tr>
<td>116</td>
<td>0</td>
<td>not at all</td>
</tr>
<tr>
<td>74</td>
<td>1</td>
<td>a little</td>
</tr>
<tr>
<td>22</td>
<td>2</td>
<td>fairly</td>
</tr>
<tr>
<td>11</td>
<td>3</td>
<td>very</td>
</tr>
</tbody>
</table>

- **exten:** q11 extent of activity  
  - **range:** [1, 4]  
  - **unique values:** 4  
  - **coded missing:** 67 / 292

  **tabulation:**
<table>
<thead>
<tr>
<th>Freq.</th>
<th>Numeric</th>
<th>Label</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>1</td>
<td>all</td>
</tr>
<tr>
<td>21</td>
<td>2</td>
<td>most</td>
</tr>
<tr>
<td>83</td>
<td>3</td>
<td>few</td>
</tr>
<tr>
<td>116</td>
<td>4</td>
<td>none</td>
</tr>
</tbody>
</table>

- **chnactiv:** q12 change in activity  
  - **range:** [1, 3]  
  - **unique values:** 3  
  - **coded missing:** 86 / 292

  **tabulation:**
<table>
<thead>
<tr>
<th>Freq.</th>
<th>Numeric</th>
<th>Label</th>
</tr>
</thead>
<tbody>
<tr>
<td>9</td>
<td>1</td>
<td>more</td>
</tr>
<tr>
<td>53</td>
<td>2</td>
<td>less</td>
</tr>
<tr>
<td>144</td>
<td>3</td>
<td>same</td>
</tr>
</tbody>
</table>

- **hrs:** q13 hours spent  
  - **range:** [1, 6]  
  - **unique values:** 6  
  - **coded missing:** 66 / 292

  **tabulation:**
<table>
<thead>
<tr>
<th>Freq.</th>
<th>Numeric</th>
<th>Label</th>
</tr>
</thead>
<tbody>
<tr>
<td>177</td>
<td>1</td>
<td>none</td>
</tr>
<tr>
<td>11</td>
<td>2</td>
<td>-1</td>
</tr>
<tr>
<td>21</td>
<td>3</td>
<td>1-5</td>
</tr>
<tr>
<td>5</td>
<td>4</td>
<td>5-10</td>
</tr>
<tr>
<td>5</td>
<td>5</td>
<td>10-20</td>
</tr>
<tr>
<td>7</td>
<td>6</td>
<td>+20</td>
</tr>
</tbody>
</table>

- **orgeffec:** q14 effectiveness of org  
  - **range:** [0, 3]  
  - **unique values:** 4  
  - **coded missing:** 65 / 292

  **tabulation:**
<table>
<thead>
<tr>
<th>Freq.</th>
<th>Numeric</th>
<th>Label</th>
</tr>
</thead>
<tbody>
<tr>
<td>43</td>
<td>0</td>
<td>not at all</td>
</tr>
<tr>
<td>116</td>
<td>1</td>
<td>slightly</td>
</tr>
<tr>
<td>57</td>
<td>2</td>
<td>fairly</td>
</tr>
</tbody>
</table>
QUESTIONNAIRE

indeffec :: q15 personal effectiveness
  range: [0,3]
  unique values: 4
  coded missing: 44 / 292
  tabulation: Freq. Numeric Label
  71 0 not at all
  111 1 slightly
  50 2 fairly
  16 3 very

netpos :: q16 network position
  range: [0,2]
  unique values: 3
  coded missing: 66 / 292
  tabulation: Freq. Numeric Label
  129 0 isolate
  72 1 periphery
  25 2 core

namenone :: q16 talks to no-one
  range: [1,2]
  unique values: 2
  coded missing: 15 / 292
  tabulation: Freq. Numeric Label
  179 1 yes
  98 0 no

name1 :: alter1 name string (str4)
name2 :: (unlabeled)
name3 :: (unlabeled)
name4 :: (unlabeled)
name5 :: (unlabeled)
name6 :: (unlabeled)
name7 :: (unlabeled)
name8 :: (unlabeled)
name9 :: (unlabeled)
name10 :: (unlabeled)
name11 :: (unlabeled)
name12 :: (unlabeled)
name13 :: (unlabeled)
name14 :: (unlabeled)
QUESTIONNAIRE

name15 :: (unlabeled)
name16 :: (unlabeled)
name17 :: (unlabeled)
name18 :: (unlabeled)
name19 :: (unlabeled)
name20 :: (unlabeled)
name21 :: (unlabeled)
name22 :: (unlabeled)
name23 :: (unlabeled)
name24 :: (unlabeled)
name25 :: (unlabeled)
name26 :: (unlabeled)
name27 :: (unlabeled)
name28 :: (unlabeled)

plspor7 :: q17 play sport
    range: [1,5]
    unique values: 5
    coded missing: 16 / 292
    tabulation: Freq. Numeric Label
        167  1 weekly
         44  2 monthly
          35  3 sev x a year
           3  4 annually
           27  5 never

wchsport :: q17 watch sport
    range: [1,5]
    unique values: 5
    coded missing: 35 / 292
    tabulation: Freq. Numeric Label
        55  1 weekly
         36  2 monthly
          44  3 sev x a year
           27  4 annually
           95  5 never

plysgame :: q17 play a game of skill
    range: [1,5]
    unique values: 5
    coded missing: 20 / 292
    tabulation: Freq. Numeric Label
         27  1 weekly
         32  2 monthly
         70  3 sev x a year
         37  4 annually

C:\My Documents\research\whiteley\gindopendoc8
### cine :: q17 go to cinema

**range:** [1, 5]  
**unique values:** 5  
**coded missing:** 10 / 292

<table>
<thead>
<tr>
<th>Freq.</th>
<th>Numeric</th>
<th>Label</th>
</tr>
</thead>
<tbody>
<tr>
<td>105</td>
<td>3</td>
<td>sev x a year</td>
</tr>
<tr>
<td>68</td>
<td>4</td>
<td>annually</td>
</tr>
<tr>
<td>77</td>
<td>5</td>
<td>never</td>
</tr>
<tr>
<td>4</td>
<td>1</td>
<td>weekly</td>
</tr>
<tr>
<td>28</td>
<td>2</td>
<td>monthly</td>
</tr>
</tbody>
</table>

### theat :: q17 go to theatre or concert

**range:** [1, 5]  
**unique values:** 5  
**coded missing:** 9 / 292

<table>
<thead>
<tr>
<th>Freq.</th>
<th>Numeric</th>
<th>Label</th>
</tr>
</thead>
<tbody>
<tr>
<td>137</td>
<td>3</td>
<td>sev x a year</td>
</tr>
<tr>
<td>74</td>
<td>4</td>
<td>annually</td>
</tr>
<tr>
<td>34</td>
<td>5</td>
<td>never</td>
</tr>
<tr>
<td>4</td>
<td>1</td>
<td>weekly</td>
</tr>
<tr>
<td>34</td>
<td>2</td>
<td>monthly</td>
</tr>
</tbody>
</table>

### museu :: q17 go to museum or gallery

**range:** [1, 5]  
**unique values:** 5  
**coded missing:** 7 / 292

<table>
<thead>
<tr>
<th>Freq.</th>
<th>Numeric</th>
<th>Label</th>
</tr>
</thead>
<tbody>
<tr>
<td>128</td>
<td>3</td>
<td>sev x a year</td>
</tr>
<tr>
<td>101</td>
<td>4</td>
<td>annually</td>
</tr>
<tr>
<td>31</td>
<td>5</td>
<td>never</td>
</tr>
<tr>
<td>3</td>
<td>1</td>
<td>weekly</td>
</tr>
<tr>
<td>22</td>
<td>2</td>
<td>monthly</td>
</tr>
</tbody>
</table>

### drink :: q17 go out for drink

**range:** [1, 5]  
**unique values:** 5  
**coded missing:** 8 / 292

<table>
<thead>
<tr>
<th>Freq.</th>
<th>Numeric</th>
<th>Label</th>
</tr>
</thead>
<tbody>
<tr>
<td>59</td>
<td>5</td>
<td>never</td>
</tr>
<tr>
<td>67</td>
<td>3</td>
<td>sev x a year</td>
</tr>
<tr>
<td>20</td>
<td>4</td>
<td>annually</td>
</tr>
<tr>
<td>65</td>
<td>1</td>
<td>weekly</td>
</tr>
<tr>
<td>73</td>
<td>2</td>
<td>monthly</td>
</tr>
</tbody>
</table>

### eat :: q17 eat out

**range:** [1, 5]  
**unique values:** 5  
**coded missing:** 5 / 292

<table>
<thead>
<tr>
<th>Freq.</th>
<th>Numeric</th>
<th>Label</th>
</tr>
</thead>
<tbody>
<tr>
<td>11</td>
<td>5</td>
<td>never</td>
</tr>
<tr>
<td>123</td>
<td>3</td>
<td>sev x a year</td>
</tr>
<tr>
<td>14</td>
<td>4</td>
<td>annually</td>
</tr>
<tr>
<td>49</td>
<td>1</td>
<td>weekly</td>
</tr>
<tr>
<td>90</td>
<td>2</td>
<td>monthly</td>
</tr>
</tbody>
</table>
QUESTIONNAIRE

visit :: q17 visit or be visited by friends
range: [1,5]
unique values: 5

coded missing: 5 / 292

<table>
<thead>
<tr>
<th>Freq.</th>
<th>Numeric</th>
<th>Label</th>
</tr>
</thead>
<tbody>
<tr>
<td>122</td>
<td>1</td>
<td>weekly</td>
</tr>
<tr>
<td>87</td>
<td>2</td>
<td>monthly</td>
</tr>
<tr>
<td>71</td>
<td>3</td>
<td>sev x a year</td>
</tr>
<tr>
<td>4</td>
<td>4</td>
<td>annually</td>
</tr>
<tr>
<td>3</td>
<td>5</td>
<td>never</td>
</tr>
</tbody>
</table>

diy :: q17 diy, car maintenance, etc.
range: [1,5]
unique values: 5

coded missing: 7 / 292

<table>
<thead>
<tr>
<th>Freq.</th>
<th>Numeric</th>
<th>Label</th>
</tr>
</thead>
<tbody>
<tr>
<td>48</td>
<td>1</td>
<td>weekly</td>
</tr>
<tr>
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<td>98</td>
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party :: q17 go to party
range: [1,5]
unique values: 5

coded missing: 8 / 292

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gard :: q17 work in garden
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unique values: 5

coded missing: 4 / 292

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hobb :: q17 work on hobby or craft
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coded missing: 10 / 292

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QUESTIONNAIRE

park : q17 visit coast, park, etc.
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  coded missing: 8 / 292

  tabulation: Freq.  Numeric  Label
              38      1 weekly
              91      2 monthly
             124      3 sev x a year
              20      4 annually
              11      5 never

class : q17 attend evening classes
  range: [1,5]
  unique values: 5
  coded missing: 8 / 292

  tabulation: Freq.  Numeric  Label
              44      1 weekly
              14      2 monthly
              22      3 sev x a year
              14      4 annually
             190      5 never

vol : q17 do voluntary work
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  unique values: 5
  coded missing: 9 / 292

  tabulation: Freq.  Numeric  Label
              74      1 weekly
              36      2 monthly
              40      3 sev x a year
              27      4 annually
             106      5 never

wors : q17 attend a place of worship
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  unique values: 5
  coded missing: 6 / 292

  tabulation: Freq.  Numeric  Label
              48      1 weekly
              18      2 monthly
              32      3 sev x a year
              32      4 annually
             156      5 never

envmem : q18 member environmental org
  range: [1,2]
  unique values: 2
  coded missing: 1 / 292

  tabulation: Freq.  Numeric  Label
              94      1 yes
             197      0 no

envpar : q18 participate in environmental org
  range: [1,2]
  unique values: 2
  coded missing: 1 / 292

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QUESTIONNAIRE

tabulation: Freq.  Numeric  Label
        40  1  yes
        251  0  no

envvol :: q18 vol work for environmental org
range: [1,2]
unique values: 2  coded missing: 1 / 292

tabulation: Freq.  Numeric  Label
        29  1  yes
        262  0  no

evnno :: q18 no. env org membs
range: [0,7]
unique values: 8  coded missing: 6 / 292

tabulation: Freq.  Value
        194  0
        58  1
        16  2
         9  3
         5  4
         2  5
         1  6
         1  7

consmem :: q18 member conservation org
range: [1,2]
unique values: 2  coded missing: 1 / 292

tabulation: Freq.  Numeric  Label
        171  1  yes
        120  0  no

conspar :: q18 participate in conservation org
range: [1,2]
unique values: 2  coded missing: 1 / 292

tabulation: Freq.  Numeric  Label
        51  1  yes
        240  0  no

consvol :: q18 vol work for conservation org
range: [1,2]
unique values: 2  coded missing: 1 / 292

tabulation: Freq.  Numeric  Label
        29  1  yes
        262  0  no

consno :: q18 no. cons org membs
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coded missing: 1 / 292

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**animvol:** q18 vol work for animal org  
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unique values: 2  
coded missing: 1 / 292

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**animno:** q18 no. anim org membs  
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coded missing: 7 / 292

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coded missing: 1 / 292

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QUESTIONNAIRE

**pcexpa**: q18 participate in peace org  
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  unique values: 2  
  coded missing: 1 / 292  
  tabulation: Freq. Numeric Label  
    7  1 yes  
    284  0 no

**pcexvol**: q18 vol work for peace org  
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  coded missing: 1 / 292  
  tabulation: Freq. Numeric Label  
    2  1 yes  
    289  0 no

**pceno**: q18 no. pce org membs  
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  unique values: 4  
  coded missing: 3 / 292  
  tabulation: Freq. Value  
    271  0  
    13  1  
    4  2  
    1  3

**humamem**: q18 member humanitarian org  
  range: [1,2]  
  unique values: 2  
  coded missing: 1 / 292  
  tabulation: Freq. Numeric Label  
    58  1 yes  
    233  0 no

**humapara**: q18 participate in humanitarian org  
  range: [1,2]  
  unique values: 2  
  coded missing: 1 / 292  
  tabulation: Freq. Numeric Label  
    24  1 yes  
    267  0 no

**humavol**: q18 vol work for humanitarian org  
  range: [1,2]  
  unique values: 2  
  coded missing: 1 / 292  
  tabulation: Freq. Numeric Label  
    13  1 yes  
    278  0 no

**humano**: q18 no. human org membs  
  range: [0,5]  
  unique values: 6  
  coded missing: 7 / 292

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QUESTIONNAIRE

tabulation: Freq. Value
  215  0
  49   1
  12   2
   7   3
   1   4
   1   5

welmem :: q18 member social welfare org
  range: [1,2]
  unique values: 2           coded missing: 1 / 292

tabulation: Freq. Numeric Label
     45   1 yes
     246  0 no

welpar :: q18 participate in social welfare org
  range: [1,2]
  unique values: 2           coded missing: 1 / 292

   tabulation: Freq. Numeric Label
            32   1 yes
            259  0 no

welvol :: q18 vol work for social welfare org
  range: [1,2]
  unique values: 2           coded missing: 1 / 292

   tabulation: Freq. Numeric Label
             25   1 yes
             266  0 no

welno :: q18 no. soc wel org membs
  range: [0,3]
  unique values: 4           coded missing: 14 / 292

   tabulation: Freq. Value
         226  0
         41   1
          7   2
          4   3

medimem :: q18 member of medical org
  range: [1,2]
  unique values: 2           coded missing: 1 / 292

   tabulation: Freq. Numeric Label
            18   1 yes
            273  0 no

medipar :: q18 participate in medical org
  range: [1,2]
  unique values: 2           coded missing: 1 / 292

   tabulation: Freq. Numeric Label

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### QUESTIONNAIRE

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**coded missing**: 1 / 292

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**coded missing**: 6 / 292

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**dismem**: q18 member disability org  
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              278 0 no

ythpar :: q18 participate in youth org
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  tabulation: Freq. Numeric Label
              12  1 yes
              279 0 no

ythvol :: q18 vol work for youth org
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  tabulation: Freq. Numeric Label
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              272 0 no

ythno :: q18 no. yth org membs
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  coded missing: 6 / 292
  tabulation: Freq. Value
              266  0
              17  1
               2  2
               1  3

retirmem :: q18 member pensioner org
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  tabulation: Freq. Numeric Label
              19  1 yes
              272 0 no

retirpar :: q18 participate in pensioner org
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  unique values: 2
  coded missing: 1 / 292
  tabulation: Freq. Numeric Label
              10  1 yes
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retirvol :: q18 vol work for pensioner org
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**QUESTIONNAIRE**

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**religno**: q18 no relig org membs
- **range**: [0, 3]
- **unique values**: 4
- **coded missing**: 4 / 292

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**wommem**: q18 member women's org
- **range**: [1, 2]
- **unique values**: 2
- **coded missing**: 1 / 292

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**wompar**: q18 participate in women's org
- **range**: [1, 2]
- **unique values**: 2
- **coded missing**: 1 / 292

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**womvol**: q18 vol work for women's org
- **range**: [1, 2]
- **unique values**: 2
- **coded missing**: 1 / 292

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</tbody>
</table>

**womno**: q18 no. wom org membs
- **range**: [0, 2]
- **unique values**: 3
- **coded missing**: 5 / 292

C:\My Documents\research\whiteley\gindo-end.doc9
QUESTIONNAIRE

**tumem**: q18 member of trade union
- range: [1,2]
- unique values: 2
- coded missing: 1 / 292

**tupar**: q18 participate in trade union
- range: [1,2]
- unique values: 2
- coded missing: 1 / 292

**tuvol**: q18 vol work for trade union
- range: [1,2]
- unique values: 2
- coded missing: 1 / 292

**tuno**: q18 no. tu membs
- range: [0,2]
- unique values: 3
- coded missing: 1 / 292

**busmem**: q18 member business org
- range: [1,2]
- unique values: 2
- coded missing: 1 / 292

**buspar**: q18 participate in business org
- range: [1,2]
- unique values: 2
- coded missing: 1 / 292
QUESTIONNAIRE

busvol :: q18 vol work for business org
  range: [1, 2]
  unique values: 2
  coded missing: 1 / 292
  tabulation: Freq. Numeric Label
              4  1 yes
              287  0 no

busno :: q18 no. bus org membs
  range: [0, 1]
  unique values: 2
  coded missing: 2 / 292
  tabulation: Freq. Value
              273  0
              17   1

profmem :: q18 member professional org
  range: [1, 2]
  unique values: 2
  coded missing: 1 / 292
  tabulation: Freq. Numeric Label
              62  1 yes
              229  0 no

profpar :: q18 participate in professional org
  range: [1, 2]
  unique values: 2
  coded missing: 1 / 292
  tabulation: Freq. Numeric Label
              16  1 yes
              275  0 no

profvol :: q18 vol work for professional org
  range: [1, 2]
  unique values: 2
  coded missing: 1 / 292
  tabulation: Freq. Numeric Label
              4  1 yes
              287  0 no

profno :: q18 no. prof org membs
  range: [0, 5]
  unique values: 6
  coded missing: 1 / 292
  tabulation: Freq. Value
              227  0
              50   1
              9    2
              2    3
              1    4
              2    5

ptamem :: q18 member of pta
  range: [1, 2]
  unique values: 2
  coded missing: 1 / 292
tabulation: Freq. Numeric Label
   19  1 yes
  272  0 no

ptapar :: q18 participate in pta
    range: [1,2]
  unique values: 2  coded missing: 1 / 292

    tabulation: Freq. Numeric Label
               17  1 yes
              274  0 no

ptavol :: q18 vol work for pta
    range: [1,2]
  unique values: 2  coded missing: 1 / 292

    tabulation: Freq. Numeric Label
               6  1 yes
              285  0 no

ptano :: q18 no. of pta membs
    range: [0,1]
  unique values: 2  coded missing: 1 / 292

    tabulation: Freq. Value
               263  0
              285  1

tenmem :: q18 member of tenant/ residents' org
    range: [1,2]
  unique values: 2  coded missing: 1 / 292

    tabulation: Freq. Numeric Label
               106  1 yes
               185  0 no

tenpar :: q18 participate in tenant/ residents' org
    range: [1,2]
  unique values: 2  coded missing: 1 / 292

    tabulation: Freq. Numeric Label
               35  1 yes
              256  0 no

tenvol :: q18 vol work for tenant/ residents' org
    range: [1,2]
  unique values: 2  coded missing: 1 / 292

    tabulation: Freq. Numeric Label
               20  1 yes
              271  0 no

tenno :: q18 no. of tenres org membs

C:\My Documents\research\whiteley\gindo-end.do22
range: [0,4]  
unique values: 5  
coded missing: 7 / 292

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govmem :: q18 member of school governing board  
range: [1,2]  
unique values: 2  
coded missing: 1 / 292

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govpar :: q18 participate in school governing board  
range: [1,2]  
unique values: 2  
coded missing: 1 / 292

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govvol :: q18 vol work for school governing board  
range: [1,2]  
unique values: 2  
coded missing: 1 / 292

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govno :: q18 no. school govs  
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coded missing: 3 / 292

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parmem :: q18 member of political party  
range: [1,2]  
unique values: 2  
coded missing: 0 / 292

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parpar :: q18 participate in political party  
range: [1,2]  
unique values: 2  
coded missing: 1 / 292
**QUESTIONNAIRE**

```
tabulation: Freq. Numeric Label
           35    1   yes
           256  0   no
```

```
parvol :: q18 vol work for political party
range: [1,2]
unique values: 2
                coded missing: 1 / 292

  tabulation: Freq. Numeric Label
              18    1   yes
              273  0   no
```

```
parno :: q18 no. polpar membs
range: [0,1]
unique values: 2
                coded missing: 2 / 292

  tabulation: Freq. Value
              170  0
              120  1
```

```
polmem :: q18 member other political org
range: [1,2]
unique values: 2
                coded missing: 1 / 292

  tabulation: Freq. Numeric Label
              4    1   yes
              287  0   no
```

```
polpar :: q18 participate other political org
range: [1,2]
unique values: 2
                coded missing: 1 / 292

  tabulation: Freq. Numeric Label
              2    1   yes
              289  0   no
```

```
polvol :: q18 vol work other political org
range: [1,2]
unique values: 2
                coded missing: 1 / 292

  tabulation: Freq. Numeric Label
              1    1   yes
              290  0   no
```

```
polno :: q18 no. othpol org membs
range: [0,5]
unique values: 3
                coded missing: 3 / 292

  tabulation: Freq. Value
              285  0
              3   1
              1   5
```

```
servmem :: q18 member ex-services org
```

C:\My Documents\research\whiteley\gindo-end.do24
QUESTIONNAIRE

range: [1,2]
unique values: 2 coded missing: 1 / 292

servpar :: q18 participate in ex-services org
range: [1,2]
unique values: 2 coded missing: 1 / 292

servvol :: q18 vol work for ex-services org
range: [1,2]
unique values: 2 coded missing: 1 / 292

servno :: q18 no. exserv org membs
range: [0,2]
unique values: 3 coded missing: 1 / 292

sportmem :: q18 member sports org
range: [1,2]
unique values: 2 coded missing: 1 / 292

sportpar :: q18 participate in sports org
range: [1,2]
unique values: 2 coded missing: 1 / 292

sportvol :: q18 vol work for sports org
range: [1,2]
unique values: 2 coded missing: 1 / 292
QUESTIONNAIRE

sportno :: q18 no. sport org membs
  range: [0,5]
  unique values: 5
  coded missing: 3 / 292
  tabulation: Freq. Value
  201 0
  73 1
  11 2
  3 3
  1 5

gymmem :: q18 member leisure club
  range: [1,2]
  unique values: 2
  coded missing: 1 / 292
  tabulation: Freq. Numeric Label
  53 1 yes
  238 0 no

gympar :: q18 participate in leisure club
  range: [1,2]
  unique values: 2
  coded missing: 1 / 292
  tabulation: Freq. Numeric Label
  31 1 yes
  260 0 no

gymvol :: q18 vol work for leisure club
  range: [1,2]
  unique values: 2
  coded missing: 1 / 292
  tabulation: Freq. Numeric Label
  1 1 yes
  290 0 no

gymno :: q18 no. leis club membs
  range: [0,1]
  unique values: 2
  coded missing: 1 / 292
  tabulation: Freq. Value
  231 0
  60 1

consumem :: q18 member consumer org
  range: [1,2]
  unique values: 2
  coded missing: 1 / 292
  tabulation: Freq. Numeric Label
  17 1 yes
  274 0 no

consuper :: q18 participate consumer org
  range: [1,2]
QUESTIONNAIRE

unique values: 2  
coded missing: 1 / 292

tabulation: Freq. Numeric Label
            3     1   yes
            288   0   no

consvol :: q18 vol work consumer org
range: [1,2]
unique values: 2  
coded missing: 1 / 292

tabulation: Freq. Numeric Label
            1     1   yes
            290   0   no

consuno :: q18 no. conum org membs
range: [0,3]
unique values: 3  
coded missing: 3 / 292

tabulation: Freq. Value
            272   0
            16    1
            1     3

cultmem :: q18 member cultural org
range: [1,2]
unique values: 2  
coded missing: 1 / 292

tabulation: Freq. Numeric Label
            66    1   yes
            225   0   no

cultpar :: q18 participate in cultural org
range: [1,2]
unique values: 2  
coded missing: 1 / 292

tabulation: Freq. Numeric Label
            39    1   yes
            252   0   no

cultvol :: q18 vol work for cultural org
range: [1,2]
unique values: 2  
coded missing: 1 / 292

tabulation: Freq. Numeric Label
            9     1   yes
            282   0   no

cultno :: q18 no. cult org membs
range: [0,7]
unique values: 8  
coded missing: 8 / 292

tabulation: Freq. Value
            218   0
            42    1
            11    2
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motvol :: q18 vol work for motoring org
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    coded missing: 1 / 292
    tabulation:
    Freq. Numeric Label
    1 0
    3 1 yes
    287 0 no

motno :: q18 no. motor org membs
    range: [0,2]
    unique values: 3
    coded missing: 1 / 292
    tabulation:
    Freq. Value
    169 0
    119 1
    3 2

socmem :: q18 member social club
    range: [1,2]
    unique values: 2
    coded missing: 1 / 292
    tabulation:
    Freq. Numeric Label
    8 1 yes
    283 0 no

socpar :: q18 participate in social club
    range: [1,2]
    unique values: 2
    coded missing: 1 / 292
    tabulation:
    Freq. Numeric Label
    2 1 yes
    289 0 no

socvol :: q18 vol work for social club
    range: [1,2]
    unique values: 2
    coded missing: 1 / 292
    tabulation:
    Freq. Numeric Label
    1 1 yes
    290 0 no

socno :: q18 no. soc club membs
    range: [0,1]
    unique values: 2
    coded missing: 4 / 292
    tabulation:
    Freq. Value
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    5 1

othmem :: q18 member other type org
**QUESTIONNAIRE**

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<td>10% 25% 50% 75% 90%</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>3</td>
<td>5</td>
</tr>
<tr>
<td>totpart : number of types of participation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>range</td>
<td>[0, 12]</td>
<td></td>
</tr>
<tr>
<td>unique values</td>
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<tr>
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<td>0 / 292</td>
<td></td>
</tr>
<tr>
<td>mean</td>
<td>1.96575</td>
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</tr>
<tr>
<td>std. dev</td>
<td>2.12953</td>
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<tr>
<td>percentiles</td>
<td>10% 25% 50% 75% 90%</td>
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</tr>
<tr>
<td>0</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>totvol : number of types of voluntary activity</td>
<td></td>
<td></td>
</tr>
<tr>
<td>range</td>
<td>[0, 11]</td>
<td></td>
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<tr>
<td>unique values</td>
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</tr>
<tr>
<td>coded missing</td>
<td>0 / 292</td>
<td></td>
</tr>
</tbody>
</table>
QUESTIONNAIRE

    tabulation: Freq. Value
    144 0
    76  1
    36  2
    18  3
    10  4
    4   5
    3   7
    1   11

totnum :: total number of memberships
    range: [1,28]
    unique values: 24
    mean: 7.61538
    std. dev: 5.40944
    percentiles: 10% 25% 50% 75% 90%
                 2 3 6 10 16

trstpeop :: q20 trust in people
    range: [1,7]
    unique values: 7
    tabulation: Freq. Value
                 6 1
               11 2
               23 3
               41 4
               89 5
              67 6
              15 7

trstgov :: q21 trust in the government
    range: [1,7]
    unique values: 7
    tabulation: Freq. Value
                 37 1
                46 2
                54 3
                60 4
                63 5
                20 6
                4 7

trstcom :: q21 trust in the house of commons
    range: [1,7]
    unique values: 7
    tabulation: Freq. Value
                 26 1
                42 2
                59 3
                76 4
                53 5
                22 6
                2 7
QUESTIONNAIRE

trstciv :: q21 trust in the civil service
range: [1,7]
unique values: 7
coded missing: 16 / 292

<table>
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<td>29</td>
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</tr>
<tr>
<td>62</td>
<td>3</td>
</tr>
<tr>
<td>68</td>
<td>4</td>
</tr>
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<td>68</td>
<td>5</td>
</tr>
<tr>
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</tr>
<tr>
<td>3</td>
<td>7</td>
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trstpol :: q21 trust in the police
range: [1,7]
unique values: 7
coded missing: 10 / 292

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<td>5</td>
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<tr>
<td>42</td>
<td>6</td>
</tr>
<tr>
<td>6</td>
<td>7</td>
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trstloc :: q21 trust in local government
range: [1,7]
unique values: 7
coded missing: 7 / 292

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<td>76</td>
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<td>6</td>
</tr>
<tr>
<td>3</td>
<td>7</td>
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trsteu :: q21 trust in the eu
range: [1,7]
unique values: 7
coded missing: 15 / 292

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<td>61</td>
<td>3</td>
</tr>
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<td>75</td>
<td>4</td>
</tr>
<tr>
<td>43</td>
<td>5</td>
</tr>
<tr>
<td>11</td>
<td>6</td>
</tr>
<tr>
<td>1</td>
<td>7</td>
</tr>
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trstbnk :: q21 trust in the financial institutions
range: [1,7]
unique values: 7
coded missing: 9 / 292
QUESTIONNAIRE

tabulation: Freq. Value
50  1
52  2
59  3
45  4
41  5
28  6
  8  7

trtstcomp :: q21 trust in major companies
range: [1,7]
unique values: 7
coded missing: 12 / 292

tabulation: Freq. Value
54  1
63  2
61  3
57  4
30  5
13  6
  2  7

trstbcc :: q21 trust in the bbc
range: [1,7]
unique values: 7
coded missing: 9 / 292

tabulation: Freq. Value
11  1
18  2
40  3
49  4
82  5
70  6
13  7
	polscale :: q22 left wing - right wing
range: [1,7]
unique values: 7
coded missing: 15 / 292

tabulation: Freq. Value
26  1
70  2
92  3
50  4
23  5
12  6
  4  7

polpart :: q23 political party allegiance
range: [1,7]
unique values: 7
coded missing: 6 / 292

tabulation: Freq. Numeric Label
 42   1  conservative
139   2  labour
 24   3  liberal democrat

C:\My Documents\research\whiteley\gindo-end.doc3
### QUESTIONNAIRE

40  green
12  other
  7  don't know
22  none

partis :: q24 strength of support
range: [1,4]
unique values: 4
coded missing: 41 / 292

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<td>strong</td>
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<tr>
<td>119</td>
<td>2</td>
<td>fairly strong</td>
</tr>
<tr>
<td>60</td>
<td>3</td>
<td>not very strong</td>
</tr>
<tr>
<td>2</td>
<td>4</td>
<td>don't know</td>
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gend :: q25 gender
range: [1,2]
unique values: 2
coded missing: 0 / 292

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<td>male</td>
</tr>
<tr>
<td>132</td>
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<td>female</td>
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</tbody>
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age :: q26 age
range: [1,6]
unique values: 6
coded missing: 3 / 292

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<tr>
<td>6</td>
<td>1</td>
<td>&lt;25</td>
</tr>
<tr>
<td>23</td>
<td>2</td>
<td>25-34</td>
</tr>
<tr>
<td>34</td>
<td>3</td>
<td>35-44</td>
</tr>
<tr>
<td>80</td>
<td>4</td>
<td>45-54</td>
</tr>
<tr>
<td>57</td>
<td>5</td>
<td>55-64</td>
</tr>
<tr>
<td>89</td>
<td>6</td>
<td>&gt;65</td>
</tr>
</tbody>
</table>

yrsliv :: q27 number of years in neighbourhood
range: [1,6]
unique values: 6
coded missing: 4 / 292

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<td>6</td>
<td>1</td>
<td>up to a yr</td>
</tr>
<tr>
<td>16</td>
<td>2</td>
<td>1-2 yrs</td>
</tr>
<tr>
<td>18</td>
<td>3</td>
<td>2-5 yrs</td>
</tr>
<tr>
<td>35</td>
<td>4</td>
<td>5-10 yrs</td>
</tr>
<tr>
<td>64</td>
<td>5</td>
<td>10-20 yrs</td>
</tr>
<tr>
<td>149</td>
<td>6</td>
<td>&gt;20 yrs</td>
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resid :: q28 residential status
range: [1,7]
unique values: 7
coded missing: 4 / 292

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<td>239</td>
<td>1</td>
<td>owned outright or mortgage</td>
</tr>
<tr>
<td>11</td>
<td>2</td>
<td>rented from la</td>
</tr>
<tr>
<td>10</td>
<td>3</td>
<td>rented privately unfurn</td>
</tr>
<tr>
<td>9</td>
<td>4</td>
<td>rented privately furn</td>
</tr>
</tbody>
</table>

C:\My Documents\research\whiteley\gindo-end.doc4
QUESTIONNAIRE

4 5 rented from ha
10 6 living with parents
  5 7 other

car :: q29 use of car or van
range: [0,2]
unique values: 3
coded missing: 4 / 292

tabulation: Freq. Numeric Label
          51  0 no car
          134  1 1 car
         103  2 2 or more cars

empstat :: q30 employment status
range: [1,10]
unique values: 10
coded missing: 3 / 292

eamples: 1 ft outside home
         3 pt outside home
         8 unemployed not seeking work
         9 retired

selfemp :: q31 self-employed
range: [1,2]
unique values: 2
coded missing: 11 / 292

tabulation: Freq. Numeric Label
           49  1 yes
           232  0 no

soc :: q32 soc
range: [0,958]
unique values: 116
coded missing: 18 / 292

mean:  310.686
std. dev:  175.891

percentiles: 10%  25%  50%  75%  90%
              125  199   246   385   532

soc2 :: q32 soc groupings
range: [1,9]
unique values: 9
coded missing: 2 / 292

tabulation: Freq. Numeric Label
            85  1 managers and administrators
            93  2 professionals
            49  3 assoc pros and technicians
            28  4 clerical and secretarial
            12  5 craft and related
            7  6 personal and protective services
            10  7 sales and related
             2  8 plant and machine operatives
             4  9 other
QUESTIONNAIRE

occup : occupational class
range: [1,10]
unique values: 10
coded missing: 23 / 292

tabulation:

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<td>yes</td>
</tr>
<tr>
<td>7</td>
<td>0</td>
<td>no</td>
</tr>
</tbody>
</table>

main : main job or not
range: [1,2]
unique values: 2
coded missing: 16 / 292

tabulation:

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<td>yes</td>
</tr>
<tr>
<td>7</td>
<td>0</td>
<td>no</td>
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super : q35 supervisory position
range: [1,2]
unique values: 2
coded missing: 23 / 292

tabulation:

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<tr>
<td>113</td>
<td>0</td>
<td>no</td>
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numemp : q36 number employed in workplace
range: [1,2]
unique values: 2
coded missing: 23 / 292

tabulation:

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<td>97</td>
<td>1</td>
<td>&lt;25</td>
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<tr>
<td>172</td>
<td>2</td>
<td>25 or more</td>
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occsec : q37 occupational sector
range: [1,8]
unique values: 8
coded missing: 23 / 292

tabulation:

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<td>10</td>
<td>2</td>
<td>nationalised industry</td>
</tr>
<tr>
<td>55</td>
<td>3</td>
<td>la or lea</td>
</tr>
<tr>
<td>18</td>
<td>4</td>
<td>health authority</td>
</tr>
<tr>
<td>10</td>
<td>5</td>
<td>govt or civil service</td>
</tr>
<tr>
<td>20</td>
<td>6</td>
<td>charity or trust</td>
</tr>
<tr>
<td>20</td>
<td>7</td>
<td>fe or he institution</td>
</tr>
<tr>
<td>11</td>
<td>8</td>
<td>other</td>
</tr>
</tbody>
</table>

hrswork : q38 hours per week worked
range: [1,4]
unique values: 4
coded missing: 19 / 292

tabulation:

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<tr>
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<td>10-30</td>
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<tr>
<td>117</td>
<td>3</td>
<td>30-45</td>
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<td>95</td>
<td>4</td>
<td>+45</td>
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</table>

persinc : q39 personal gross annual income
range: [1,11]
unique values: 11
coded missing: 26 / 292

C:\My Documents\research\whiteley\gindo-end.doc6
**fathemp**: q40 father's employment status
- **range**: [1,4]
- **unique values**: 4
- **coded missing**: 13 / 292

<table>
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<td>self-employed</td>
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<td>217</td>
<td>2</td>
<td>employee</td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>3</td>
<td>don't know</td>
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<tr>
<td></td>
<td>12</td>
<td>4</td>
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**fathsoc**: q41 father's soc
- **range**: [102,990]
- **unique values**: 109
- **coded missing**: 44 / 292

**school**: q42 type of school last attended
- **range**: [1,9]
- **unique values**: 9
- **coded missing**: 9 / 292

<table>
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<td>18</td>
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**nocquals**: q43 no qualifications
- **range**: [1,2]
- **unique values**: 2
- **coded missing**: 10 / 292

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**cse**: q43 cse or equivalent
- **range**: [1,2]
- **unique values**: 2
- **coded missing**: 10 / 292

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**gcse**: q43 gcse or equivalent
- **range**: [1,2]
- **unique values**: 2
- **coded missing**: 10 / 292

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<td>Label</td>
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<td></td>
<td></td>
<td>Label</td>
</tr>
<tr>
<td></td>
<td></td>
<td>63</td>
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<td></td>
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<td>219</td>
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<td></td>
<td></td>
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<tr>
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<td>[1,2]</td>
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<td>10 / 292</td>
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<td>2</td>
<td>10 / 292</td>
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### Questionnaire

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<tr>
<td></td>
<td>272</td>
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<td>no</td>
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**highqual :: highest educational qualification**
- range: [1, 8]
- unique values: 7
- coded missing: 10 / 292

<table>
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<td>36</td>
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<td>43</td>
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<td>6</td>
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<td>65</td>
<td>7</td>
<td>degree</td>
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<td></td>
<td>75</td>
<td>8</td>
<td>pg</td>
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</table>

**ethnic :: q44 ethnic origin**
- range: [1, 13]
- unique values: 5
- coded missing: 9 / 292

<table>
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<tr>
<td></td>
<td>266</td>
<td>1</td>
<td>white uk</td>
</tr>
<tr>
<td></td>
<td>11</td>
<td>2</td>
<td>white other</td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>8</td>
<td>indian</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>10</td>
<td>pakistani</td>
</tr>
<tr>
<td></td>
<td>3</td>
<td>13</td>
<td>jewish</td>
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</table>

**classid :: q45 class perception**
- range: [1, 3]
- unique values: 3
- coded missing: 9 / 292

<table>
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<td>yes</td>
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<td></td>
<td>131</td>
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<td>no</td>
</tr>
<tr>
<td></td>
<td>16</td>
<td>3</td>
<td>don't know</td>
</tr>
</tbody>
</table>

**socclass :: q46 perceived class**
- range: [1, 98]
- unique values: 7
- coded missing: 11 / 292

<table>
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<td>2</td>
<td>1</td>
<td>upper</td>
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<td></td>
<td>38</td>
<td>2</td>
<td>upper middle</td>
</tr>
<tr>
<td></td>
<td>8</td>
<td>3</td>
<td>middle</td>
</tr>
<tr>
<td></td>
<td>42</td>
<td>4</td>
<td>lower middle</td>
</tr>
<tr>
<td></td>
<td>41</td>
<td>5</td>
<td>working</td>
</tr>
<tr>
<td></td>
<td>3</td>
<td>7</td>
<td>other</td>
</tr>
<tr>
<td></td>
<td>147</td>
<td>98</td>
<td></td>
</tr>
</tbody>
</table>

**marstat :: q47 marital status**
- range: [1, 4]
- unique values: 4
- coded missing: 8 / 292

<table>
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<th>Freq.</th>
<th>Numeric</th>
<th>Label</th>
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<tr>
<td></td>
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</tbody>
</table>

C:\My Documents\research\whiteley\gindo-end.do89
QUESTIONNAIRE

adult :: q48 no. adults in h/hold
range: [0,5]
unique values: 6

coded missing: 12 / 292

tabulation: Freq. Value
2 0
64 1
166 2
37 3
6 4
5 5

kida :: q48 no. children aged 0-4
range: [0,2]
unique values: 3

coded missing: 12 / 292

tabulation: Freq. Value
258 0
18 1
4 2

kidb :: q48 no. children aged 5-11
range: [0,2]
unique values: 3

coded missing: 12 / 292

tabulation: Freq. Value
254 0
17 1
9 2

kidc :: q48 no. children aged 12-17
range: [0,3]
unique values: 4

coded missing: 12 / 292

tabulation: Freq. Value
240 0
25 1
14 2
1 3
List of variables on the working file: INTERVIEW.SAV 10-12-01

id :: id number
  range: [1,527]
  unique values: 126
coded missing: 0 / 126

orgname :: organisation name
  range: [1,3]
  unique values: 3
coded missing: 0 / 126

  tabulation: Freq.  Numeric Label
  53    1      labour party
  56    2      conservation
  17    3      environmental

aread :: ql reading newsletter
  range: [0,4]
  unique values: 5
coded missing: 11 / 126

  tabulation: Freq.  Numeric Label
  7      0      never
  2      1      < annually
  2      2      annually
  90     3      sever x a year
  14     4      monthly

adonate :: ql donating money
  range: [0,4]
  unique values: 5
coded missing: 2 / 126

  tabulation: Freq.  Numeric Label
  67     0      never
  19     1      < annually
  15     2      annually
  12     3      sever x a year
  11     4      monthly

awrite :: ql writing letter of protest
  range: [0,4]
  unique values: 5
coded missing: 0 / 126

  tabulation: Freq.  Numeric Label
  68     0      never
  23     1      < annually
  13     2      annually
  19     3      sever x a year
  3      4      monthly

assign :: ql signing petition
  range: [0,4]
  unique values: 5
coded missing: 0 / 126

  tabulation: Freq.  Numeric Label
  53     0      never
  36     1      < annually
  13     2      annually
apurch :: q1 purchasing merchandise
  range: [0, 3]
  unique values: 4
  coded missing: 0 / 126

  tabulation: Freq. Numeric Label
  92    0    never
  26    1    < annually
   5    2    annually
   3    3    sev x a year

ameet :: q1 attending meeting
  range: [0, 4]
  unique values: 5
  coded missing: 0 / 126

  tabulation: Freq. Numeric Label
  53    0    never
  27    1    < annually
   5    2    annually
  14    3    sev x a year

arally :: q1 attending rally/ demo
  range: [0, 3]
  unique values: 4
  coded missing: 1 / 126

  tabulation: Freq. Numeric Label
  86    0    never
  25    1    < annually
   5    2    annually
   9    3    sev x a year

araise :: q1 awareness or fund raising
  range: [0, 4]
  unique values: 5
  coded missing: 1 / 126

  tabulation: Freq. Numeric Label
  78    0    never
  13    1    < annually
  12    2    annually
  21    3    sev x a year
   1    4    monthly

ahost :: q1 organising/ hosting social event
  range: [0, 3]
  unique values: 4
  coded missing: 0 / 126

  tabulation: Freq. Numeric Label
  107    0    never
   11    1    < annually
    3    2    annually
    5    3    sev x a year
### INTERVIEW

#### event :: ql attending social event
- range: [0,3]
- unique values: 4
- coded missing: 0 / 126

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<td>81</td>
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<td>never</td>
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<tr>
<td>21</td>
<td>1</td>
<td>&lt; annually</td>
</tr>
<tr>
<td>15</td>
<td>2</td>
<td>annually</td>
</tr>
<tr>
<td>9</td>
<td>3</td>
<td>sev x a year</td>
</tr>
</tbody>
</table>

#### admin :: ql doing admin work
- range: [0,4]
- unique values: 5
- coded missing: 1 / 126

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<td>98</td>
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<td>never</td>
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<tr>
<td>5</td>
<td>1</td>
<td>&lt; annually</td>
</tr>
<tr>
<td>2</td>
<td>2</td>
<td>annually</td>
</tr>
<tr>
<td>10</td>
<td>3</td>
<td>sev x a year</td>
</tr>
<tr>
<td>10</td>
<td>4</td>
<td>monthly</td>
</tr>
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</table>

#### ares :: ql conducting research or writing
- range: [0,4]
- unique values: 5
- coded missing: 0 / 126

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<td>96</td>
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<tr>
<td>18</td>
<td>1</td>
<td>&lt; annually</td>
</tr>
<tr>
<td>2</td>
<td>2</td>
<td>annually</td>
</tr>
<tr>
<td>5</td>
<td>3</td>
<td>sev x a year</td>
</tr>
<tr>
<td>5</td>
<td>4</td>
<td>monthly</td>
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</table>

#### spresent :: ql maxing presentation to other org
- range: [0,3]
- unique values: 4
- coded missing: 0 / 126

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<tr>
<td>6</td>
<td>1</td>
<td>&lt; annually</td>
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<tr>
<td>2</td>
<td>2</td>
<td>annually</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
<td>sev x a year</td>
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#### amedia :: ql media work
- range: [0,4]
- unique values: 5
- coded missing: 0 / 126

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<td>113</td>
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<td>never</td>
</tr>
<tr>
<td>5</td>
<td>1</td>
<td>&lt; annually</td>
</tr>
<tr>
<td>4</td>
<td>2</td>
<td>annually</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
<td>sev x a year</td>
</tr>
<tr>
<td>1</td>
<td>4</td>
<td>monthly</td>
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#### aconsult :: ql participating in consultation channels
- range: [0,3]
- unique values: 4
- coded missing: 0 / 126
### INTERVIEW

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<td>0</td>
<td>never</td>
</tr>
<tr>
<td>11</td>
<td>1</td>
<td>&lt; annually</td>
</tr>
<tr>
<td>4</td>
<td>2</td>
<td>annually</td>
</tr>
<tr>
<td>7</td>
<td>3</td>
<td>sev x a year</td>
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areps : q1 serving as rep on committee  
**range:** [0,4]  
**unique values:** 5  
**coded missing:** 0 / 126

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<td>never</td>
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<td>2</td>
<td>1</td>
<td>&lt; annually</td>
</tr>
<tr>
<td>1</td>
<td>2</td>
<td>annually</td>
</tr>
<tr>
<td>5</td>
<td>3</td>
<td>sev x a year</td>
</tr>
<tr>
<td>5</td>
<td>4</td>
<td>monthly</td>
</tr>
</tbody>
</table>

adirect : q1 participating in direct action  
**range:** [0,3]  
**unique values:** 4  
**coded missing:** 1 / 126

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<th>Label</th>
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<tr>
<td>9</td>
<td>1</td>
<td>&lt; annually</td>
</tr>
<tr>
<td>4</td>
<td>2</td>
<td>annually</td>
</tr>
<tr>
<td>5</td>
<td>3</td>
<td>sev x a year</td>
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talkorg : q2 talk to others about concerns of org  
**range:** [0,5]  
**unique values:** 6  
**coded missing:** 0 / 126

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<th>Label</th>
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<td>9</td>
<td>0</td>
<td>never</td>
</tr>
<tr>
<td>17</td>
<td>1</td>
<td>&lt; once a year</td>
</tr>
<tr>
<td>34</td>
<td>2</td>
<td>sev x a year</td>
</tr>
<tr>
<td>28</td>
<td>3</td>
<td>monthly</td>
</tr>
<tr>
<td>26</td>
<td>4</td>
<td>weekly</td>
</tr>
<tr>
<td>12</td>
<td>5</td>
<td>every day</td>
</tr>
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</table>

influ : q3 how influential in group  
**range:** [1,5]  
**unique values:** 5  
**coded missing:** 0 / 126

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<th>Numeric</th>
<th>Label</th>
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</thead>
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<td>3</td>
<td>1</td>
<td>very</td>
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<tr>
<td>15</td>
<td>2</td>
<td>fairly</td>
</tr>
<tr>
<td>22</td>
<td>3</td>
<td>a little</td>
</tr>
<tr>
<td>82</td>
<td>4</td>
<td>not at all</td>
</tr>
<tr>
<td>4</td>
<td>5</td>
<td>don't know</td>
</tr>
</tbody>
</table>

involve : q4 desired involvement  
**range:** [1,4]  
**unique values:** 4  
**coded missing:** 0 / 126

<table>
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<th>Numeric</th>
<th>Label</th>
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</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
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</tbody>
</table>
52 1 more
6 2 less
66 3 same
2 4 don't know

org1 :: organisation 1 type
range: [1,30]
unique values: 24 coded missing: 4 / 126

examples: 4 anim rights
12 sport
16 prof
24 relig

off1 :: q18 held office in org 1
range: [1,2]
unique values: 2 coded missing: 10 / 126

tabulation: Freq. Numeric Label
52 1 yes
64 0 no

activ1 :: q19 extent of activity in org 1
range: [1,4]
unique values: 4 coded missing: 8 / 126

hours1 :: q20 hours per month in org 1
range: [0,240]
unique values: 24 coded missing: 4 / 126

mean: 14.3115
std. dev: 26.7038

percentiles: 10% 25% 50% 75% 90%
0 1 6 20 40

year1 :: q21 length of membership in org 1
range: [1,60]
unique values: 34 coded missing: 4 / 126

mean: 15.123
std. dev: 14.0915

percentiles: 10% 25% 50% 75% 90%
2 4 10 21 38

org2 :: organisation 2 type
range: [1,29]
unique values: 27 coded missing: 9 / 126
examples:  5  peace
           11  ex-servs
           19  cult
           24  relig

off2 :: q18 held office in org 2
range:  [1,8]
unique values:  3  coded missing:  12 / 126

  tabulation: Freq.  Numeric  Label
             34  1     yes
             80  0     no

activ2 :: q19 extent of activity in org 2
range:  [1,4]
unique values:  4  coded missing:  16 / 126

  tabulation: Freq.  Numeric  Label
             17  1     all
             27  2     most
             51  3     few
             15  4     none

hours2 :: q20 hours per month in org 2
range:  [0,120]
unique values:  24  coded missing:  9 / 126

  mean:   8.30769
  std. dev:  16.7386

  percentiles:  10%  25%  50%  75%  90%
                0    0    3    9   25

year2 :: q21 length of membership in org 2
range:  [1,67]
unique values:  30  coded missing:  9 / 126

  mean:   12.9744
  std. dev:  12.6474

  percentiles:  10%  25%  50%  75%  90%
                1    4    9   20   30

org3 :: organisation 3 type
range:  [1,30]
unique values:  27  coded missing:  20 / 126

examples:  5  peace
           14  trade union
           19  cultural
           24  religious

off3 :: q18 held office in org 3
range:  [1,2]
unique values:  2  coded missing:  23 / 126

C:\My Documents\research\whiteley\gindo-end.dod46
INTERVIEW

<table>
<thead>
<tr>
<th>tabulation: Freq.</th>
<th>Numeric</th>
<th>Label</th>
</tr>
</thead>
<tbody>
<tr>
<td>28</td>
<td>1</td>
<td>yes</td>
</tr>
<tr>
<td>75</td>
<td>0</td>
<td>no</td>
</tr>
</tbody>
</table>

activ3 :: q19 extent of activity in org 3
range: [1,4]
unique values: 4
coded missing: 25 / 126

<table>
<thead>
<tr>
<th>tabulation: Freq.</th>
<th>Numeric</th>
<th>Label</th>
</tr>
</thead>
<tbody>
<tr>
<td>14</td>
<td>1</td>
<td>all</td>
</tr>
<tr>
<td>25</td>
<td>2</td>
<td>most</td>
</tr>
<tr>
<td>45</td>
<td>3</td>
<td>few</td>
</tr>
<tr>
<td>17</td>
<td>4</td>
<td>none</td>
</tr>
</tbody>
</table>

hours3 :: q20 hours per month in org 3
range: [0,120]
unique values: 20
coded missing: 21 / 126
mean: 5.88571
std. dev: 13.9459

percentiles: 10% 25% 50% 75% 90%
0 0 1 6 12

year3 :: q21 length of membership in org 3
range: [1,60]
unique values: 31
coded missing: 21 / 126
mean: 12.581
std. dev: 12.721

percentiles: 10% 25% 50% 75% 90%
2 4 8 17 30

mostact :: q22 most active in
range: [0,4]
unique values: 5
coded missing: 0 / 126

<table>
<thead>
<tr>
<th>tabulation: Freq.</th>
<th>Numeric</th>
<th>Label</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>0</td>
<td>none</td>
</tr>
<tr>
<td>73</td>
<td>1</td>
<td>org 1</td>
</tr>
<tr>
<td>19</td>
<td>2</td>
<td>org 2</td>
</tr>
<tr>
<td>13</td>
<td>3</td>
<td>org 3</td>
</tr>
<tr>
<td>17</td>
<td>4</td>
<td>case study org</td>
</tr>
</tbody>
</table>

idfyorg :: q23 identify with case study org
range: [0,2]
unique values: 3
coded missing: 5 / 126

<table>
<thead>
<tr>
<th>tabulation: Freq.</th>
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<th>Label</th>
</tr>
</thead>
<tbody>
<tr>
<td>16</td>
<td>0</td>
<td>don't identify</td>
</tr>
<tr>
<td>73</td>
<td>1</td>
<td>somewhat</td>
</tr>
<tr>
<td>32</td>
<td>2</td>
<td>strongly</td>
</tr>
</tbody>
</table>
INTERVIEW

idfymov :: q24 identify with movement
range: [0,2]
unique values: 3
coded missing: 0 / 126

<table>
<thead>
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<th>Freq.</th>
<th>Numeric</th>
<th>Label</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>5</td>
<td>0</td>
<td>don't identify or oppose</td>
</tr>
<tr>
<td></td>
<td>33</td>
<td>1</td>
<td>somewhat</td>
</tr>
<tr>
<td></td>
<td>88</td>
<td>2</td>
<td>strongly</td>
</tr>
</tbody>
</table>

idfyorgx :: q25 identified with cs org by others
range: [0,2]
unique values: 3
coded missing: 7 / 126

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<th>Label</th>
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<tr>
<td></td>
<td>50</td>
<td>0</td>
<td>don't identify</td>
</tr>
<tr>
<td></td>
<td>49</td>
<td>1</td>
<td>somewhat</td>
</tr>
<tr>
<td></td>
<td>20</td>
<td>2</td>
<td>very strongly</td>
</tr>
</tbody>
</table>

idfymovx :: q26 identified with movement by others
range: [0,2]
unique values: 3
coded missing: 1 / 126

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<th>Freq.</th>
<th>Numeric</th>
<th>Label</th>
</tr>
</thead>
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<tr>
<td></td>
<td>9</td>
<td>0</td>
<td>don't identify or oppose</td>
</tr>
<tr>
<td></td>
<td>50</td>
<td>1</td>
<td>somewhat</td>
</tr>
<tr>
<td></td>
<td>66</td>
<td>2</td>
<td>very strongly</td>
</tr>
</tbody>
</table>

leis :: q28 favourite leisure activity
range: [1,56]
unique values: 56
coded missing: 0 / 126

| 1 None                  | 29 resides assoc           |
| 2 Gardening            | 30 guild activities       |
| 3 conserv work         | 31 crafts                 |
| 4 wildlife             | 32 folk singing/ dancing  |
| 5 walking              | 33 dancing                |
| 6 walking dog          | 34 music                  |
| 7 day trips            | 35 classical music        |
| 8 geology              | 36 jazz                   |
| 9 bird watching        | 37 playing piano          |
| 10 snake breeding      | 38 opera                  |
| 11 sport               | 39 theatre                |
| 12 watching sport      | 40 playing bridge         |
| 13 athletics           | 41 making preserves       |
| 14 sailing             | 42 drinking beer          |
| 15 mountaineering      | 43 pub                    |
| 16 rock climbing       | 44 eating out             |
| 17 football            | 45 Reading                |
| 18 golf                | 46 creative writing       |
| 19 tennis              | 47 literature/ poetry     |
20 cycling
21 horse racing
22 yoga
23 WRAC
24 restoring vehicles
25 DIY
26 travel
27 holiday cottages
28 history

48 reading FT
49 book collecting
50 Internet
51 time at home w/ family
52 Activities with children
53 Discussion/ debate
54 Socialising/ entertaining
55 practical philosophy
56 caring for elderly

talkleis :: q29 talk with others about leisure activity
range: [1,2]
unique values: 2
coded missing: 0 / 126

<table>
<thead>
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<th>Freq.</th>
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<th>Label</th>
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<tr>
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<td>105</td>
<td>1</td>
<td>yes</td>
</tr>
<tr>
<td></td>
<td>21</td>
<td>0</td>
<td>no</td>
</tr>
</tbody>
</table>

meal :: q31 had someone round for meal
range: [1,2]
unique values: 2
coded missing: 1 / 126

<table>
<thead>
<tr>
<th>Code</th>
<th>Freq.</th>
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<tbody>
<tr>
<td></td>
<td>59</td>
<td>1</td>
<td>yes</td>
</tr>
<tr>
<td></td>
<td>66</td>
<td>0</td>
<td>no</td>
</tr>
</tbody>
</table>

mealx :: q32 been to someone else's for meal
range: [1,2]
unique values: 2
coded missing: 1 / 126

<table>
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<tr>
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<th>Freq.</th>
<th>Numeric</th>
<th>Label</th>
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</thead>
<tbody>
<tr>
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<td>63</td>
<td>1</td>
<td>yes</td>
</tr>
<tr>
<td></td>
<td>62</td>
<td>0</td>
<td>no</td>
</tr>
</tbody>
</table>

visit :: q33 had someone round for visit
range: [1,2]
unique values: 2
coded missing: 1 / 126

<table>
<thead>
<tr>
<th>Code</th>
<th>Freq.</th>
<th>Numeric</th>
<th>Label</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>94</td>
<td>1</td>
<td>yes</td>
</tr>
<tr>
<td></td>
<td>31</td>
<td>0</td>
<td>no</td>
</tr>
</tbody>
</table>

visith :: q34 been to someone else's for visit
range: [1,2]
unique values: 2
coded missing: 1 / 126

<table>
<thead>
<tr>
<th>Code</th>
<th>Freq.</th>
<th>Numeric</th>
<th>Label</th>
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</thead>
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<tr>
<td></td>
<td>74</td>
<td>1</td>
<td>yes</td>
</tr>
<tr>
<td></td>
<td>51</td>
<td>0</td>
<td>no</td>
</tr>
</tbody>
</table>
outmeal :: q35 been out to eat
    range: [1,2]
    unique values: 2
    coded missing: 1 / 126
    tabulation:
        Freq.    Numeric   Label
        84       1       yes
        41       0       no

outdrink :: q36 been out for drink
    range: [1,2]
    unique values: 2
    coded missing: 1 / 126
    tabulation:
        Freq.    Numeric   Label
        63       1       yes
        62       0       no

talkprob :: q38 talk about problems
    range: [1,2]
    unique values: 2
    coded missing: 1 / 126
    tabulation:
        Freq.    Numeric   Label
        107      1       yes
        18       0       no

coop :: ps4 respondent co-operation
    range: [1,4]
    unique values: 4
    coded missing: 2 / 126
    tabulation:
        Freq.    Numeric  Label
        52       1       very good
        54       2       good
        14       3       fair
        4        4       poor

ivw :: interviewer's initials

ivwmo :: month of interview
    range: [2,9]
    unique values: 8
    coded missing: 0 / 126
    tabulation:
        Freq.    Numeric  Label
        21       0       nov
        21       3       dec
        20       4       jan
        36       5       feb
        11       6       mar
        11       7       apr
        4        8       may
        2        9       jun
List of variables on the working file: NetIn.SAV

<table>
<thead>
<tr>
<th>Variable</th>
<th>Description</th>
<th>Range</th>
<th>Unique Values</th>
<th>Coded Missing</th>
</tr>
</thead>
<tbody>
<tr>
<td>ego</td>
<td>Respondent ID</td>
<td>[1,527]</td>
<td>125</td>
<td>0 / 1532</td>
</tr>
<tr>
<td>alt</td>
<td>Id of person named</td>
<td>[0,526]</td>
<td>251</td>
<td>0 / 1532</td>
</tr>
<tr>
<td>org</td>
<td>Organisation</td>
<td>[1,3]</td>
<td>3</td>
<td>0 / 1532</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Tabulation</th>
<th>Freq.</th>
<th>Numeric</th>
<th>Label</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>822</td>
<td>1</td>
<td>labour party</td>
</tr>
<tr>
<td></td>
<td>562</td>
<td>2</td>
<td>conservation</td>
</tr>
<tr>
<td></td>
<td>148</td>
<td>3</td>
<td>environmental</td>
</tr>
</tbody>
</table>

| roster         | Highlighted on roster      | [0,1]     | 2              | 0 / 1532      |

<table>
<thead>
<tr>
<th>Tabulation</th>
<th>Freq.</th>
<th>Numeric</th>
<th>Label</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>4</td>
<td>0</td>
<td>no</td>
</tr>
<tr>
<td></td>
<td>1528</td>
<td>1</td>
<td>yes</td>
</tr>
</tbody>
</table>

| aage           | Age of alter               | [1,88]    | 7       | 835 / 1532   |

<table>
<thead>
<tr>
<th>Tabulation</th>
<th>Freq.</th>
<th>Numeric</th>
<th>Label</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>8</td>
<td>1</td>
<td>&lt; 25</td>
</tr>
<tr>
<td></td>
<td>92</td>
<td>2</td>
<td>25-34</td>
</tr>
<tr>
<td></td>
<td>150</td>
<td>3</td>
<td>35-44</td>
</tr>
<tr>
<td></td>
<td>151</td>
<td>4</td>
<td>45-54</td>
</tr>
<tr>
<td></td>
<td>169</td>
<td>5</td>
<td>55-64</td>
</tr>
<tr>
<td></td>
<td>88</td>
<td>6</td>
<td>&gt; 65</td>
</tr>
<tr>
<td></td>
<td>39</td>
<td>88</td>
<td>don't know</td>
</tr>
</tbody>
</table>

| afemale        | Alter is female?           | [0,1]     | 2       | 4 / 1532     |

<table>
<thead>
<tr>
<th>Tabulation</th>
<th>Freq.</th>
<th>Numeric</th>
<th>Label</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>811</td>
<td>0</td>
<td>male</td>
</tr>
<tr>
<td></td>
<td>717</td>
<td>1</td>
<td>female</td>
</tr>
</tbody>
</table>

| asoc           | Alter's SOC for occupation | [0,990]   | 79     | 1014 / 1532  |

| aempstat       | Employment Status          | [1,88]    | 11     | 837 / 1532   |

C:\My Documents\research\whiteley\gindo-end.docS1
1  full time  2  part time
3  self employed  4  unemployed
5  not working  6  volunteer/ activist
7  retired  8  homemaker
9  retired through ill health  10  student  88  D/K

info :: get info from
range: [0,1]
unique values: 2  coded missing: 0 / 1532

tabulation: Freq.  Numeric  Label
1274  0  no
258  1  yes

discuss :: discuss issues with
range: [0,1]
unique values: 2  coded missing: 0 / 1532

tabulation: Freq.  Numeric  Label
1168  0  no
364  1  yes

meet :: met outside of group
range: [0,1]
unique values: 2  coded missing: 0 / 1532

tabulation: Freq.  Numeric  Label
1203  0  no
329  1  yes

import :: important in other way
range: [0,1]
unique values: 2  coded missing: 0 / 1532

tabulation: Freq.  Numeric  Label
1504  0  no
28  1  yes

hobby :: shares hobby
range: [0,1]
unique values: 2  coded missing: 835 / 1532

tabulation: Freq.  Numeric  Label
616  0  no
281  1  yes

envpoli :: shares environmental/ political views
range: [0,1]
unique values: 2  coded missing: 835 / 1532

tabulation: Freq.  Numeric  Label
190  0  no
507  1  yes

C:\My Documents\research\whiteley\gindo-end.doc52
partnerh :: partner in h/hold
range: [0,1]
unique values: 2
coded missing: 834 / 1532

tabulation:

<table>
<thead>
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<th>Numeric</th>
<th>Label</th>
</tr>
</thead>
<tbody>
<tr>
<td>665</td>
<td>0</td>
<td>no</td>
</tr>
<tr>
<td>33</td>
<td>1</td>
<td>yes</td>
</tr>
</tbody>
</table>

otrelh :: other rel in h/hold
range: [0,0]
unique values: 1
coded missing: 832 / 1532

unlits: 0

tabulation:

<table>
<thead>
<tr>
<th>Freq.</th>
<th>Numeric</th>
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</tr>
</thead>
<tbody>
<tr>
<td>700</td>
<td>0</td>
<td>no</td>
</tr>
</tbody>
</table>

partnerx :: partner outside h/hold
range: [0,0]
unique values: 1
coded missing: 832 / 1532

unlits: 0

tabulation:

<table>
<thead>
<tr>
<th>Freq.</th>
<th>Numeric</th>
<th>Label</th>
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</thead>
<tbody>
<tr>
<td>700</td>
<td>0</td>
<td>no</td>
</tr>
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</table>

otrelx :: other rel outside h/hold
range: [0,1]
unique values: 2
coded missing: 832 / 1532

unlits: 0

tabulation:

<table>
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<th>Numeric</th>
<th>Label</th>
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<tbody>
<tr>
<td>691</td>
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<td>no</td>
</tr>
<tr>
<td>9</td>
<td>1</td>
<td>yes</td>
</tr>
</tbody>
</table>

friend :: friend
range: [0,1]
unique values: 2
coded missing: 832 / 1532

unlits: 0

tabulation:

<table>
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<th>Numeric</th>
<th>Label</th>
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<tbody>
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<td>no</td>
</tr>
<tr>
<td>212</td>
<td>1</td>
<td>yes</td>
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</table>

acq :: acquaintance
range: [0,1]
unique values: 2
coded missing: 832 / 1532

unlits: 0

tabulation:

<table>
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<tbody>
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<tr>
<td>180</td>
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<td>yes</td>
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</table>

othhcon :: contact of other h/hold member
range: [0,1]
unique values: 2
coded missing: 832 / 1532

unlits: 0

tabulation:

<table>
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<th>Numeric</th>
<th>Label</th>
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<td>14</td>
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<td>Variable</td>
<td>Description</td>
<td>Range</td>
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<tr>
<td>--------------------</td>
<td>-------------------------------</td>
<td>-------</td>
</tr>
<tr>
<td>coll</td>
<td>colleague</td>
<td>[0,1]</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>otpref</td>
<td>other professional contact</td>
<td>[0,1]</td>
</tr>
<tr>
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<td></td>
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</tr>
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<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>comem</td>
<td>co-member of case study org</td>
<td>[0,1]</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
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<td></td>
<td></td>
</tr>
<tr>
<td></td>
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</tr>
<tr>
<td>comenx</td>
<td>co-member of other org</td>
<td>[0,1]</td>
</tr>
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<td></td>
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<tr>
<td>neigh</td>
<td>neighbour</td>
<td>[0,1]</td>
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</tr>
<tr>
<td>local</td>
<td>lives locally</td>
<td>[0,1]</td>
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</tr>
<tr>
<td>freq</td>
<td>frequency of contact</td>
<td>[1,6]</td>
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<tr>
<td></td>
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</tr>
</tbody>
</table>
known :: no. of years known
range: [1,88]
unique values: 45
coded missing: 838 / 1532

close :: close to
range: [0,1]
unique values: 2
coded missing: 835 / 1532

<table>
<thead>
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<th>Freq.</th>
<th>Numeric</th>
<th>Label</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>538</td>
<td>0</td>
<td>no</td>
</tr>
<tr>
<td></td>
<td>159</td>
<td>1</td>
<td>yes</td>
</tr>
</tbody>
</table>
List of variables on the working file: NetOut.sav

**ego :: respondent id**
- range: [1, 527]
- unique values: 125
- mean: 290.312
- std. dev: 189.357
- percentiles: 10% 25% 50% 75% 90%
  - 36 77 399 451 494
- coded missing: 0 / 1840

**altno :: alter number**
- range: [0, 50]
- unique values: 51
- coded missing: 0 / 1840

**alt :: alter id**
- range: [2, 506]
- unique values: 76
- coded missing: 1742 / 1840

**aorg :: belongs to case study organisation**
- range: [0, 1]
- unique values: 2
- coded missing: 3 / 1840

<table>
<thead>
<tr>
<th>tabulation:</th>
<th>Freq.</th>
<th>Numeric</th>
<th>Label</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1739</td>
<td>0</td>
<td>no</td>
</tr>
<tr>
<td></td>
<td>98</td>
<td>1</td>
<td>yes</td>
</tr>
</tbody>
</table>

**age :: age of alter**
- range: [1, 7]
- unique values: 7
- coded missing: 1122 / 1840

<table>
<thead>
<tr>
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<th>Freq.</th>
<th>Numeric</th>
<th>Label</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>28</td>
<td>1</td>
<td>&lt; 25</td>
</tr>
<tr>
<td></td>
<td>103</td>
<td>2</td>
<td>25-34</td>
</tr>
<tr>
<td></td>
<td>146</td>
<td>3</td>
<td>35-44</td>
</tr>
<tr>
<td></td>
<td>177</td>
<td>4</td>
<td>45-54</td>
</tr>
<tr>
<td></td>
<td>125</td>
<td>5</td>
<td>55-64</td>
</tr>
<tr>
<td></td>
<td>138</td>
<td>6</td>
<td>65+</td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>7</td>
<td>don't know</td>
</tr>
</tbody>
</table>

**achild :: alter is under 16**
- range: [0, 1]
- unique values: 2
- coded missing: 33 / 1840

<table>
<thead>
<tr>
<th>tabulation:</th>
<th>Freq.</th>
<th>Numeric</th>
<th>Label</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1728</td>
<td>0</td>
<td>no</td>
</tr>
<tr>
<td></td>
<td>79</td>
<td>1</td>
<td>yes</td>
</tr>
</tbody>
</table>

**afemale :: alter is female**
- range: [0, 1]
- unique values: 2
- coded missing: 42 / 1840

<table>
<thead>
<tr>
<th>tabulation:</th>
<th>Freq.</th>
<th>Numeric</th>
<th>Label</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
NETOUT

880  0  male
918  1  female

asoc :: alter's soc code for employment
  range: [0, 959]
  unique values: 127
  coded missing: 1337 / 1840
  examples: 380

aempstat :: employment status
  range: [1, 88]
  unique values: 11
  coded missing: 1133 / 1840
  examples: 1  ft work

meal :: had to house for lunch or dinner
  range: [0, 1]
  unique values: 2
  coded missing: 2 / 1840
  tabulation:
   Freq.  Numeric  Label
   1619  0  no
   219   1  yes

mealx :: went to their house for lunch or dinner
  range: [0, 1]
  unique values: 2
  coded missing: 2 / 1840
  tabulation:
   Freq.  Numeric  Label
   1676  0  no
   162   1  yes

visit :: had to house for visit
  range: [0, 1]
  unique values: 2
  coded missing: 2 / 1840
  tabulation:
   Freq.  Numeric  Label
   1503  0  no
   335   1  yes

visitx :: went to their house for visit
  range: [0, 1]
  unique values: 2
  coded missing: 2 / 1840
  tabulation:
   Freq.  Numeric  Label
   1575  0  no
   263   1  yes

outmeal :: went out to eat with
  range: [0, 1]
  unique values: 2
  coded missing: 2 / 1840
  tabulation:
   Freq.  Numeric  Label
   1590  0  no
   248   1  yes
outdrink :: went out to drink with
range: [0,1]
unique values: 2
coded missing: 2 / 1840

<table>
<thead>
<tr>
<th>Freq.</th>
<th>Numeric</th>
<th>Label</th>
</tr>
</thead>
<tbody>
<tr>
<td>1552</td>
<td>0</td>
<td>no</td>
</tr>
<tr>
<td>286</td>
<td>1</td>
<td>yes</td>
</tr>
</tbody>
</table>

talkleis :: talk to about favourite leisure activity
range: [0,1]
unique values: 2
coded missing: 2 / 1840

<table>
<thead>
<tr>
<th>Freq.</th>
<th>Numeric</th>
<th>Label</th>
</tr>
</thead>
<tbody>
<tr>
<td>998</td>
<td>0</td>
<td>no</td>
</tr>
<tr>
<td>840</td>
<td>1</td>
<td>yes</td>
</tr>
</tbody>
</table>

talkpors :: talk about personal matters to
range: [0,1]
unique values: 2
coded missing: 2 / 1840

<table>
<thead>
<tr>
<th>Freq.</th>
<th>Numeric</th>
<th>Label</th>
</tr>
</thead>
<tbody>
<tr>
<td>1491</td>
<td>0</td>
<td>no</td>
</tr>
<tr>
<td>347</td>
<td>1</td>
<td>yes</td>
</tr>
</tbody>
</table>

hobby :: shares hobby
range: [0,1]
unique values: 2
coded missing: 1120 / 1840

<table>
<thead>
<tr>
<th>Freq.</th>
<th>Numeric</th>
<th>Label</th>
</tr>
</thead>
<tbody>
<tr>
<td>154</td>
<td>0</td>
<td>no</td>
</tr>
<tr>
<td>566</td>
<td>1</td>
<td>yes</td>
</tr>
</tbody>
</table>

envpoli :: shares environmental/ political views
range: [0,1]
unique values: 2
coded missing: 1125 / 1840

<table>
<thead>
<tr>
<th>Freq.</th>
<th>Numeric</th>
<th>Label</th>
</tr>
</thead>
<tbody>
<tr>
<td>304</td>
<td>0</td>
<td>no</td>
</tr>
<tr>
<td>411</td>
<td>1</td>
<td>yes</td>
</tr>
</tbody>
</table>

partnerh :: partner in h/hold
range: [0,1]
unique values: 2
coded missing: 11 / 1840

<table>
<thead>
<tr>
<th>Freq.</th>
<th>Numeric</th>
<th>Label</th>
</tr>
</thead>
<tbody>
<tr>
<td>1757</td>
<td>0</td>
<td>no</td>
</tr>
<tr>
<td>72</td>
<td>1</td>
<td>yes</td>
</tr>
</tbody>
</table>

otreih :: other rel in h/hold
range: [0,1]
unique values: 2
coded missing: 11 / 1840

<table>
<thead>
<tr>
<th>Freq.</th>
<th>Numeric</th>
<th>Label</th>
</tr>
</thead>
<tbody>
<tr>
<td>1797</td>
<td>0</td>
<td>no</td>
</tr>
</tbody>
</table>
NETOUT

32 1 yes

partnerx :: partner outside h/hold
range: [0,1]
unique values: 2 coded missing: 11 / 1840
tabulation:
Freq. Numeric Label
1824 0 no
5 1 yes

otrelx :: other rel outside h/hold
range: [0,1]
unique values: 2 coded missing: 11 / 1840
tabulation:
Freq. Numeric Label
1491 0 no
338 1 yes

friend :: friend
range: [0,1]
unique values: 2 coded missing: 11 / 1840
tabulation:
Freq. Numeric Label
828 0 no
1001 1 yes

acq :: acquaintance
range: [0,1]
unique values: 2 coded missing: 11 / 1840
tabulation:
Freq. Numeric Label
1616 0 no
213 1 yes

othhcon :: contact of other h/hold member
range: [0,1]
unique values: 2 coded missing: 11 / 1840
tabulation:
Freq. Numeric Label
1745 0 no
84 1 yes

coll :: colleague
range: [0,1]
unique values: 2 coded missing: 11 / 1840
tabulation:
Freq. Numeric Label
1719 0 no
110 1 yes

otprof :: other professional contact
range: [0,1]
unique values: 2 coded missing: 11 / 1840
<table>
<thead>
<tr>
<th>Variable</th>
<th>Description</th>
<th>Range</th>
<th>Unique Values</th>
<th>Tabulation</th>
</tr>
</thead>
<tbody>
<tr>
<td>comem</td>
<td>Co-member of case study organisation</td>
<td>[0,1]</td>
<td>2</td>
<td>1729 100</td>
</tr>
<tr>
<td>local</td>
<td>Lives locally</td>
<td>[0,1]</td>
<td>2</td>
<td>1322 507</td>
</tr>
<tr>
<td>freq</td>
<td>Frequency of contact</td>
<td>[1,5]</td>
<td>5</td>
<td>1556 273</td>
</tr>
<tr>
<td>known</td>
<td>No. of years known</td>
<td>[1,71]</td>
<td>62</td>
<td></td>
</tr>
</tbody>
</table>

**Known Values**

- Mean: 19.4292
- Std. Dev: 15.5619
- Percentiles: 10% 25% 50% 75% 90%
**BETOUT**

| 3 | 7 | 15 | 30 | 44.5 |

`close :: close to`

range: [0, 1]
unique values: 2
coded missing: 1120 / 1840

<table>
<thead>
<tr>
<th>Freq.</th>
<th>Numeric</th>
<th>Label</th>
</tr>
</thead>
<tbody>
<tr>
<td>234</td>
<td>0</td>
<td>no</td>
</tr>
<tr>
<td>486</td>
<td>1</td>
<td>yes</td>
</tr>
</tbody>
</table>
Comments on Network Analysis

Network data from the postal survey (socdem.sav) is collected through the answer to this question in the questionnaire:

   With whom have you discussed any issues to do with the organisation in the past year? That might be group activities, policy, strategy, etc.

Network data from the face to face interviews (interview.sav) is collected through the answer to these questions in the interview schedule:

   Thinking of other members within [name of organisation], please list in the table below ALL of those people with whom you discuss things to do with the organisation (for example activities, issues, strategy). This is saved in discuss network.
   ... get information from ... in info network
   ... met outside the organisation ... in met network

Beforehand, the respondents were given roster of organisation members. Moreover, they were asked to read through the roster and were given marker to mark names they know in any context. The act of reading and marking is designed to jog the respondent's memory.

In addition, we have also looked at other network data from this phase through answer to these further questions:

   Is he/she a friend? In friend network
   Are you both co-member of other organisation? In comem network
   Do you both share a hobby? In hobby network

The names potentially picked for answers to these questions are limited to the names that have been generated to the previous three questions. This is a standard practice in the literature of social support and social network. Usually it goes something like this: from this list of acquaintances in different social contexts, who provide emotional support? (e.g. see many works by Wellman and associates since the 1970s).

The original data comes in the what is known as long form, that is for respondent ego, she lists all her discuss-contacts or information-contacts or meeting-contacts or friend-contacts or co-member-contacts or sharing hobby-contacts. Let's call these contacts alters of an ego. Alters range in number from zero to potentially 28, based on our previous literature review. The data comes in two SPSS files, one for each
phase. Additionally, both files have field or information other than ego and alters, such as four-letter code for their names and age.

The first part of the analysis then is to convert ego-alter lists to format suitable for further analysis. Because not all analysis that has been done are possible on one network package, there are a variety of formats used. This conversion to different formats is a tedious but necessary work. The common denominator for almost all is what is known as the edge-list format. In effect, ego-alter list is converted to list of ego-alter. For instance, one ego-alter list: **AnWe-BeHe, CaHu, AITo** is converted to one list of three ego-alter: **AnWe-BeHe, AnWe-CaHu, and AnWe-AITo**. Actually, in order to protect anonymity, we stored the list in numbers instead of code. So the above list will become like **128-140, 128-200, 128-220**.

Conversion from SPSS files to Stata files is done with the help of the package StatTransfer. And extraction into a file containing edge-list format is done with a small program in Stata, prepone.do. the version submitted with this document does the extraction from the Phase 2 file (netin.dta) into six different files saving network data in edge-list format.

Three networks are available from Phase 1, they are 1lpedge.dta, 1conedge.dta and 1envedge.dta. The rule for naming is quite obvious, for instance Phase 1 for Labour Party in edge-list format becomes 1lpedge.dta. Conservation organisation’s data is stored in files with con: Environmental organisation in env. The choice of Stata files was already decided in the proposal and I found it to be useful.

Networks from second phase total in number to 21, i.e. seven for each organisation, consist of the first six as described above and one aggregate network for total number of contacts [minimum 0 and maximum 6].

During the course of the project, all visualisation is done on Pajek (1999) and most analysis is done on R statistical software with its sna package (Butts, 2001). Sometimes checking of similar analysis is done in the most popular social network package Ucinet version V. To an extent where not strict network data are used such as those involving social capital, Stata is used.

Therefore, edge-list format in Stata is converted to three other formats: Pajek net format (1999), Ucinet V DL format. Analysis in R is captured in program or script which is attached also to this report.

**Problems encountered.**

In the cases of Phase 1 data, there are two to four missing alters. They are not included in further analysis.
PART II – Network programmes

There are three programs given below. First (prepone.do) is to prepare the data halfway through from SPSS or Stata into edgelist as described above. Further preparation from edgelist to Ucinet format or Pajek or R cannot be automated and depending on the need of the analysis. The second (inside.r) analyses internal networks Many analysis that are not scripted or programmed, such as k-core identification, are not documented and mostly done in Pajek.

Prepone.do: Stata program to prepare one network data

*16 08 01
*prepone
*just extract one tie network
*deal with mcr wildlife
*input: netin.dta
*output: ininfo.dta
*
drop if org==1 /* labour party=1, conservation=2 environmental=3 */
drop if afemale==. /* drop those with missing gender of alter because alt code is also 0*/

* check if there is any missing values
* if there is, assume that it means no [particular] ties */
* the first three network based on all members
  tab info
  tab discuss
  tab meet
* the second three network based on those mentioned in the previous three
  tab hobby
  tab friend
  tab comemx
  * to act on the above assumption
  * change all missing to -1, later to no ties
  mvencode hobby, mv(-1) /* same with comemx*/
  recode hobby -1=0
  mvencode friend, mv(-1)
  recode friend -1=0
  mvencode comemx, mv(-1)
  recode comemx -1=0

* generate anyr: any relation and allr:all relation

  gen anyr=0+((info==1)|(discuss==1)|(meet==1)|(hobby==1))
  * /(friend==1)|(comemx==1))
  gen allr=info+discuss+meet+hobby+friend+comemx
  tab anyr
  tab allr

  list etname aname friend info comemx in 1/10

  * ready to prepare separate files for each relation
  sort afemale alt
  keep ego alt info discuss meet hobby friend comemx
  save temp, replace

  keep ego alt info
  save inf, old replace
  use temp
  keep ego alt discuss
save dis, old replace
use temp
keep ego alt meet
save met, old replace
use temp
keep ego alt hobby
save hob, old replace
use temp
keep ego alt friend
save frn, old replace
use temp
keep ego alt comexx
save com, old replace

*next bit is to use StatTransfer to convert all .dta into .csv

inside.r : R script to produce all analysis and visuals on blockmodel in Research Note: Networks in Manchester Wildlife, Greenpeace and Labour Party

# 12.10.01
# labour party inside network 114 actors
# environmental 35 actors
# conservation 111 actors

#file.show('inside.r')
library(sna)
getwd()
options(digit=3)

# INPUT DATA
hh _ scan("com.net", list("","","","",""), skip=1, nlines=111)
header _ hh[[2]]

com _ read.table("com.net", header=F, skip=111+2) #space separated
com _ as.matrix(com)
rownames(com) _ header; colnames(com) _ header

dis _ read.table("dis.net", header=F, skip=111+2)
dis _ as.matrix(dis)
rownames(dis) _ header; colnames(dis) _ header

frn _ read.table("frn.net", header=F, skip=111+2)
frn _ as.matrix(frn)
rownames(frn) _ header; colnames(frn) _ header

hob _ read.table("hob.net", header=F, skip=111+2)

C:\My Documents\research\whiteley\gindo-end.dod5
hob <- as.matrix(hob)
rownames(hob) <- header; colnames(hob) <- header

inf <- read.table("inf.net", header=F, skip=111+2)
inf <- t(as.matrix(inf))
rownames(inf) <- header; colnames(inf) <- header

met <- read.table("met.net", header=F, skip=111+2)
met <- as.matrix(met)
rownames(met) <- header; colnames(met) <- header

#symmetrise discuss, hobby, meet, comm
#IN EFFECT ALL TIES ARE RECIPROCATED
com <- symmetrize(com, rule="weak"); dis <- symmetrize(dis, rule="weak")
hob <- symmetrize(hob, rule="weak"); met <- symmetrize(met, rule="weak")

allr <- com+dis+frn+inf+hob+met  # all relations in one network
rownames(allr) <- header; colnames(allr) <- header

anyr <- allr  # any relation(s)?
anyr[anyr>0] <- 1
rownames(anyr) <- header; colnames(anyr) <- header

#PUT IN A NETWORKS STACK
nets <- array(dim=c(8,111,111))
nets[1,] <- com; nets[2,] <- dis
nets[3,] <- frn; nets[4,] <- hob
nets[5,] <- inf; nets[6,] <- met
nets[7,] <- anyr; nets[8,] <- allr

nets.names <- c("comember","discuss","friend","hobby","information","meet","anyrel","allrel")

#GET INITIAL IMPRESSION BY DIAGRAMS
#plot graph of networks
postscript("first.eps", horizontal=F)
oldpar <- par(mfrow=c(3,2), cex=0.5, xaxt="n", yaxt="n",
            pty="s", bg="ivory")
gplot(com, mode="mds", gmode="graph", usearrows=F, main="(a) Co-membership relation",
cex.main=1, label=header, label.cex=0.7, edge.col="lawngreen")
gplot(dis, mode="mds", gmode="graph", usearrows=F, main="(b) Discuss relation",
     cex.main=1, label.header, label.cex=0.7, edge.col="lawngreen")
gplot(frn, mode="mds", main="(c) Friendship relation",
     cex.main=1, label.header, label.cex=0.7, edge.col="lawngreen")
gplot(inf, mode="mds", main="(d) Information relation",
     cex.main=1, label.header, label.cex=0.7, edge.col="lawngreen")
gplot(hob, mode="mds", gmode="graph", usearrows=F, main="(e) Share hobby relation",
     cex.main=1, label.header, label.cex=0.7, edge.col="lawngreen")
gplot(met, mode="mds", gmode="graph", usearrows=F, main="(f) Meet relation",
     cex.main=1, label.header, label.cex=0.7, edge.col="lawngreen")
par(oldpar)
dev.off()

postscript("second.eps", horizontal=F)
oldpar = par(mfrow=c(2,1), cex=0.5, xaxt="n", yaxt="n",
        pty="s", bg="ivory")
gplot(anyr, mode="mds", main="(a) Any relation",
     cex.main=1, label.header, label.cex=0.7, edge.col="lawngreen")
gplot(allr, mode="mds", main="(b) All relation",
     cex.main=1, label.header, label.cex=0.7, edge.col="lawngreen")
par(oldpar)
dev.off()

# BASIC PROPERTIES
nties(com)
sum(com)
sum(dis)
sum(frn)
sum(hob)
sum(inf)
sum(met)
sum(anyr)
gden(nets)
grecip(nets, g=c(1:7))  # proportion of existing ties which are reciprocated
mutuality(nets, g=c(1:7))  # number of reciprocated ties

library(mva)
# STRUCTURAL equivalence & blockmodel for a relation
# equiv.clust by default assesses the approximate structural equivalence

tie:com
# of actors, by an internal call to sedist().
# Hamming distance is used inside sedist(). Then the resulting
# distance matrix is input to hclust() complete linkage.
# this plot for an isolated illustration of structural equivalence
# interpretation
# cex and cex.main are for nice plots
postscript("allseq.eps", horizontal=F)
oldpar _ par(mfrow=c(3,2), cex=0.5, pty="s", bg="ivory")
sequi <- equiv.clust(com, mode="graph")
plot(sequi, main="(a) Structural equivalence: Co-member",
 xlab="", sub="", cex.main=1.2)
sequi <- equiv.clust(dis, mode="graph")
plot(sequi, main="(b) Structural equivalence: Discuss",
 xlab="", sub="", cex.main=1.2)
sequi <- equiv.clust(frn)
plot(sequi, main="(c) Structural equivalence: Friend",
 xlab="", sub="", cex.main=1.2)
sequi <- equiv.clust(hob, mode="graph")
plot(sequi, main="(d) Structural equivalence: Share hobby",
 xlab="", sub="", cex.main=1.2)
sequi <- equiv.clust(inf)
plot(sequi, main="(e) Structural equivalence: Information",
 xlab="", sub="", cex.main=1.2)
sequi <- equiv.clust(met, mode="graph")
plot(sequi, main="(f) Structural equivalence: Meet outside",
 xlab="", sub="", cex.main=1.2)
par(oldpar)
dev.off()

postscript("infseq.eps", height=5, horizontal=F)
oldpar _ par(cex=0.5, pty="s", bg="ivory")
sequi <- equiv.clust(inf)
plot(sequi, cex.main=1.2, main="", sub="", xlab="")
par(oldpar)
dev.off()

# Blockmodel
# LOOK AT THE FIGURE FIRST
# remember sequi at this point is a structural-equivalent object
blk <- blockmodel(inf, sequi, h=9)
summary.blockmodel(blk)  # this is actually quite useful
#PLOT BLOCKMODEL

postscript("block.eps", horizontal=F)
oldpar _ par(mfrow=c(2,1), cex=0.6, pty="s", bg="ivory")
plot.matrix(bbb, labels=list(bheader,bheader), diaglab=F)
plot.matrix(bimage, labels=list(bimhead,""))
par(oldpar)
dev.off()

write(t(bimage), "image.txt", ncol=6) .
write(t(allr), "all.net", ncol=111)