

Cameroon Peace Promotion Project

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1 Executive Summary

This report summarizes the findings of a 998 person survey in the North and Extreme North regions of Cameroon. The survey includes towns in which Equal Access airs radio programs – Garoua, Gashiga, and Guider in the North, and Maroua, Mesquine, Kousseri, Yagoua, Tchati-bali, Maga, Kaele, Mora, and Mokolo in the Extreme North. The survey used random sampling techniques so that this sample of about 1,000 respondents will represent the entire target population of these 12 towns – approximately 2,204,671 people¹. Here we summarize key findings about that population’s demographic characteristics, psychological attitudes, and media use.

Demographically, there over 50 ethnic groups represented in the survey. The largest single ethnic group in the regions is the Fulani, encompassing about 18% of people in the survey’s enumeration areas. But about 20 ethnic groups can be classified as Sara/Kirdi, and together those groups make up about 45% of the survey. Fulfulde, the Fulani language, seems to be the lingua franca. It is spoken by 80% of respondents and by over 1/3 of respondents as their primary language. The 20% of the population who do not speak Fulfulde speak Arabic as their primary language, and primarily reside in the Extreme North. French is widely spoken by educated people of all regions and ethnic groups.

Christians and Muslims live side by side in all communities in the survey, and interact amicably. Tolerance towards outgroups, both ethnic and religious, is extremely high by every survey measurement, and acceptance of violence is generally very low, though there is acceptance of vigilante violence against criminals. This acceptance of violence against criminals is perhaps because respondents perceive violence to be a major problem in their communities.

Political efficacy sticks out as the primary problem for people in these areas. Nearly everyone believe corruption is a problem, and trust in institutions, while fairly high overall, is lowest for government institutions like the justice system. In the Extreme North this could be driven by lower socio-economic status, as the Extreme North is generally less affluent and has less access to utilities like electricity and mobile/smartphones. In the North, this could be fed by a lack of perceived citizen engagement, political transparency, and knowledge of legal recourse. The North is also slightly more violence-accepting than the Extreme North.

In terms of media, radio is the dominant media form in these areas, and most respondents listen to the radio everyday. Other forms of media are less common, but television and the internet are very popular among young people. Social media is also popular among some young people, mainly among educated young men. Facebook is by far the most popular social media, but WhatsApp is very popular.

Equal Access radio program Douniarou Derkeen is very popular, as is the Arewa24 television channel. Douniarou Derkeen is aired in Fulfulde and Arewa24 in Hausa. Douniarou Derkeen is listened to by about 44% of respondents in the towns in which it is aired² and 54% of radio listeners; Arewa24 is watched by about 12% of the entire sample and 21% of television viewers. For the entire survey region of ~2.2 million people, we estimate that 653,890 people listen to Douniarou Derkeen and that 265,091 watch Arewa24. Douniarou Derkeen is most popular in Gashiga (76%), Yagoua (73%), and Kaele (55%). Arewa24 is most popular in Gashiga (45%), Guider (24%), and Mora (20%).

¹We arrive at 2,204,671 by taking the 2005 Census numbers for these towns (which totals 1,707,439) and multiplying it by the average growth rate, about 2.5%, for each year in the 2005 to 2017 period.

²Garoua, Gashiga, Guider, Kaele, Maga, Maroua, Mesquine, Mokolo, Tchati-Bali, and Yagoua – every town except Kousseri and Mora

2 Methodology

2.1 Measurement Methodology

We often combine individual questions into one index that summarizes the results of those individual questions. This is done for questions that are intended to measure the same concept – for instance, acceptance of violence as a means to achieve goals. Individual questions can be combined into an index when they have *internal consistency*; that is, when a high score on one question correlates to a high score on every other question in the index. High internal consistency indicates that the questions are all measuring one cohesive concept. The internal consistency of the index is measure by an alpha value, with higher values meaning more internal consistency. When an index has a high alpha value (0.7 and above), we will generally report only the index score to avoid redundancy.

The survey questions mainly use modified Likert scales. On our modified Likert scales, respondents are presented with a statement and asked the extent of their agreement or disagreement with that question. The options we use are (1) strongly agree, (2) somewhat agree, (3) somewhat disagree, and (4) strongly disagree. We do not enumerate a “don’t know” option to respondents, since research shows that certain demographic groups are systematically more likely to use don’t know responses, even when they are fairly certain of the answer (Krosnick et al 2002). Primarily, introverted people and people from disadvantaged groups (i.e. people with low education, women, etc...). Offering a “don’t know” response systematically decreases the representation of these people in the survey and increases the representation of people who are not afraid to guess even when they do not know the answer. These extroverted people tend to be older men, and so enumerating a “don’t know” response results in a survey that over-represents older men. We instruct enumerators not to enumerate a “don’t know” response and only utilize “don’t know” if the respondent asserts that they cannot or do not wish to answer.

We also report survey-corrected statistics. In a survey, each respondent is not an independent data observation. Respondents are embedded in a social context (their neighborhood) with other respondents. Respondents in the same neighborhood tend to have similar attitudes, and so 100 respondents in one neighborhood tells us far less about an area than 100 respondents evenly spread throughout ten neighborhoods. The 100 respondents from one neighborhood will more accurately reflect the attitudes of that particular neighborhood, but not the wider area we wish to describe.

In this study, we surveyed 70 neighborhoods within 12 towns, or departments, in the north and extreme north regions of Cameroon. The number of neighborhoods surveyed per town was proportional to population, so that larger towns like Garoua (11 neighborhoods) have more representation than smaller towns like Maga (2 neighborhoods). Each neighborhood was meant to have 15 survey respondents, but due to enumerator errors the PSU sizes range from 10 to 20. We account for that by weighting responses such that respondents in PSUs with greater than 15 respondents are down-weighted proportionally and respondents in PSUs with fewer than 15 respondents are up-weighted proportionally. That method ensures that each PSU has equal weight when calculating the town characteristics.

We also report the error of our survey statistics (i.e. means and medians) based on bootstrap replicates. When we conduct a survey, we randomly select respondents from each neighborhood to answer survey questions. We know the survey responses could look a little different if random selection had generated different survey respondents. That difference is the error. We simulate how the survey responses *might have* looked if we conducted the survey again in the same neighborhood with a bootstrap procedure. The bootstrap procedure is to create new hypothetical surveys by randomly selecting with replacement the respondents from our actual survey. By conducting this bootstrapping procedure 1,000 times, we see what could have happened if we conducted 1,000 other surveys in the same locations. That creates a distribution of possible survey statistics – for example, a distribution of means. We use that distribution to specify the standard error of the mean.

For example, imagine that the average score on the violence index in our survey is 0.7. We could imagine finding a mean of 0.65 or 0.75 if we talked to different people in that neighborhood. However, we could *not* imagine finding a mean of 0.2. No combination of people in the neighborhoods would yield so low an average. Bootstrapping quantifies the other means we could find and with what probability we would find them.

2.2 Survey Sampling Methodology

This survey was conducted using a stratified two-level cluster sample design. The survey was stratified by department/town; we have every department/town in our target area. Within towns, we randomly select PSUs from a list obtained by workers on the ground. Within PSUs, the enumerators mapped out 75 households and randomly selected 15 of them (1/5th) through a systematic sampling procedure. And within selected households, enumerators randomly selected one respondent by assigning each household member a number and using a random number generator to select one number.

2.3 Interpreting Survey Responses

Surveys are an extremely useful tool for summarizing opinions, but survey responses can easily be misinterpreted. Researchers must keep two main ideas in mind when analyzing survey responses. First, asking questions is complicated and each respondent interprets survey questions based on their own experiences. And second, at the individual-level, randomness enters into the responses to each question³.

First, we must put ourselves in the mind of the respondent and think how the respondent is going to interpret the question they are asked. This is true even of fairly straightforward questions. What does it mean when someone asks you if other religions promote peace and tolerance towards your religion? This depends on the mind of the respondent. The response to this question could be affected by (1) which religions enter the respondent's mind, (2) if peace and tolerance are thought of in a positive sense (treat people well) or a negative sense (don't treat people badly), and (3) what the respondent thinks the enumerator wants to hear. People carry many ideas around in their heads, and we cannot be sure precisely which idea influences their answers to a survey question. We still learn a great deal from looking at response patterns to a question asking if other religions promote peace and tolerance towards the respondent's religion, but each respondent brings slightly different mental considerations to bear when answering questions.

Problems of question interpretation do not detract from the usefulness of a survey, it just forces the survey researcher to think about the meaning of the question. If large differences occur between subgroups in the population, it could be that subgroups have very different opinions about the same concept (the typical interpretation). But it could also mean that one subgroup interprets the question in a very different way than another subgroup. That is not the typical interpretation, but that is also extremely valuable information. If respondents interpret the question differently when asked the same question, with the same wording, in the same survey context, we learn a great deal about their worldview and outlook. It is important for survey researchers to theorize about *why* a respondent answered the way they did.

Second, we must keep in mind the "random noise" caveat. Every survey response contains some element of randomness⁴. Some respondents have not thought about these topics or otherwise do not know what they think, and are being asked to form an opinion on the spot. Their responses hint at their underlying opinion, but may only reflect their attitude that is currently most salient, not their strongest attitude⁵. The goal of a good survey question is to minimize the amount that randomness influences responses and maximize the amount that the concept of interest influences responses, but no questions is perfect.

This problem also does not detract from the usefulness of surveys as a tool to measure opinion. Problems of randomness are overcome by large numbers of survey respondents. Purely random responses will not show systematic preferences for differences and will center around the mean response. Think about a coin flip: if you flip a coin ten times and receive four heads and six tails, the evidence suggests the coin random. But if

³There are many other ways to think about responses to survey questions. For example, we should keep in mind that the response scale given to respondents frames the acceptable responses. A scale of TV watching that includes options (daily, weekly, monthly, yearly) will generate different responses than a scale that includes (daily, almost every day, a few times per week, weekly, monthly). And previous questions influence subsequent questions by making certain ideas salient in the minds of respondents.

⁴This is also true for interviews and focus groups. Those methods mitigate the problem by extensive probing and respondent interaction. Surveys tend to mitigate this problem by using an index and asking many questions to measure the same underlying concept.

⁵For example, on a cold and rainy day people tend to give more pessimistic answers, whereas on a warm and sunny day people tend to give more optimistic answers (Schwartz and Clore 1983)

you flip a coin 1,000 times and receive 400 heads and 600 tails, evidence suggests that the coin is rigged. The underlying pattern shows through with large numbers. Likewise, if we ask 10 people who they will vote for and 6 say candidate A and 4 say candidate B, evidence suggests that candidate A and candidate B have about an equal amount of support. But if we ask 1,000 people and 400 say candidate A and 600 say candidate B, we should conclude that candidate B has much more support in the population⁶. The increasing precision of large numbers is also the logic to using an index: individual questions have some measurement error, but even if the questions are 50% error and 50% concept measurement, that error is overwhelmed by the use of multiple questions to measure a single concept. The error is by definition random, whereas the concept measurement is directed.

2.4 Summarizing the Survey

In the next section, we summarize the findings of the survey. First we summarize the demographic characteristics of the survey. Then we present attitudes of the respondents, disaggregating answers by sub-populations of interest. Those sub-populations are: (1) gender, (2) age, (3) region, (4) religion⁷, and (5) interview language⁸. The bars show the mean response of respondents in each group, and the error bars show the 95% confidence interval within which the mean *could* be. Answering the survey in French is also a proxy for education. Almost all of the respondents with a high school education or higher answered the survey in French.

3 Demographics

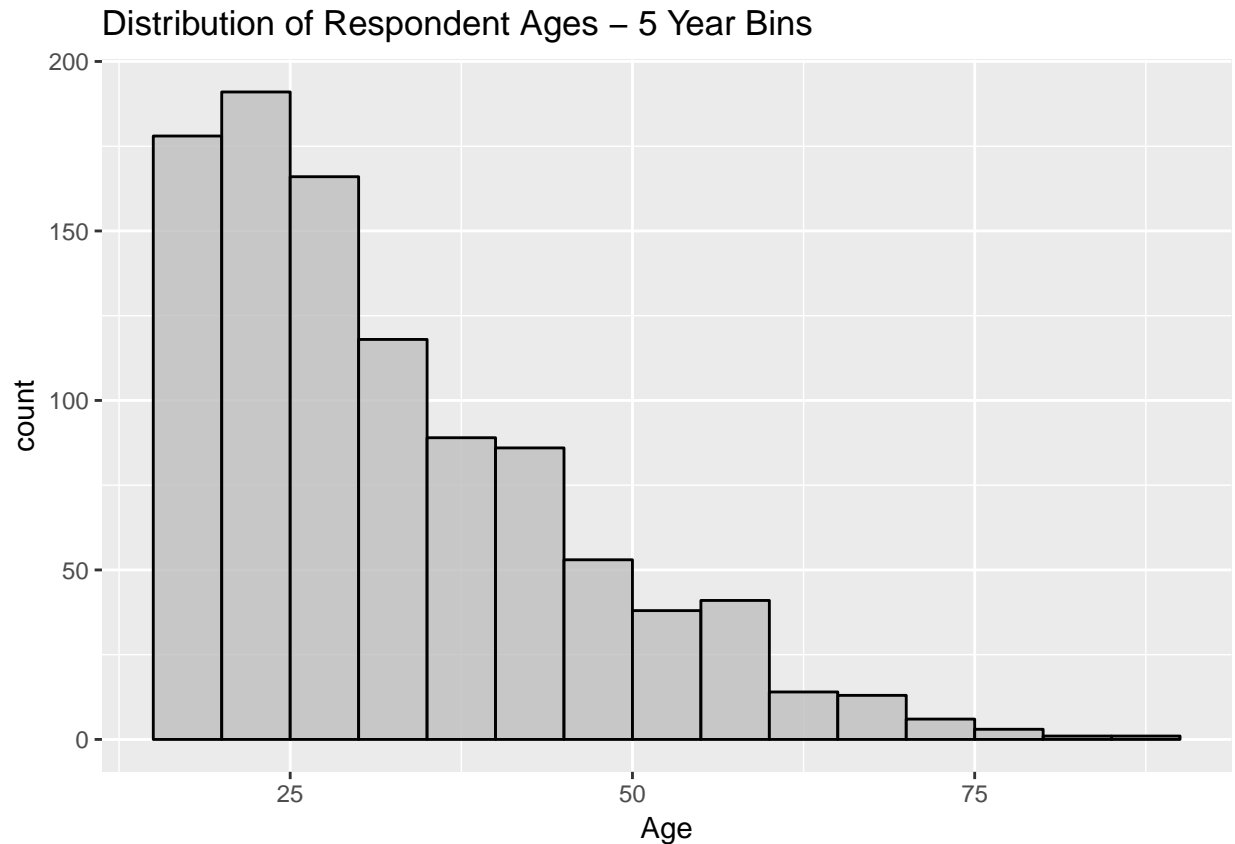
In this section, we summarize demographic characteristics of the sample. First, we summarize the proportion of the sample who are male and female, the distribution of ages, and the main ethnicities in the sample. Then we summarize the average amount of education in the sample, the languages people speak and read in the sample, and the main religions in the sample.

⁶This assumes random sampling; supporters of candidate A and candidate B must be equally likely to answer the survey.

⁷Though we display estimates for Christians, Muslims, and people from other religions, only 11 people responded with a religion other than Christianity or Islam. As such, these estimates are extremely imprecise.

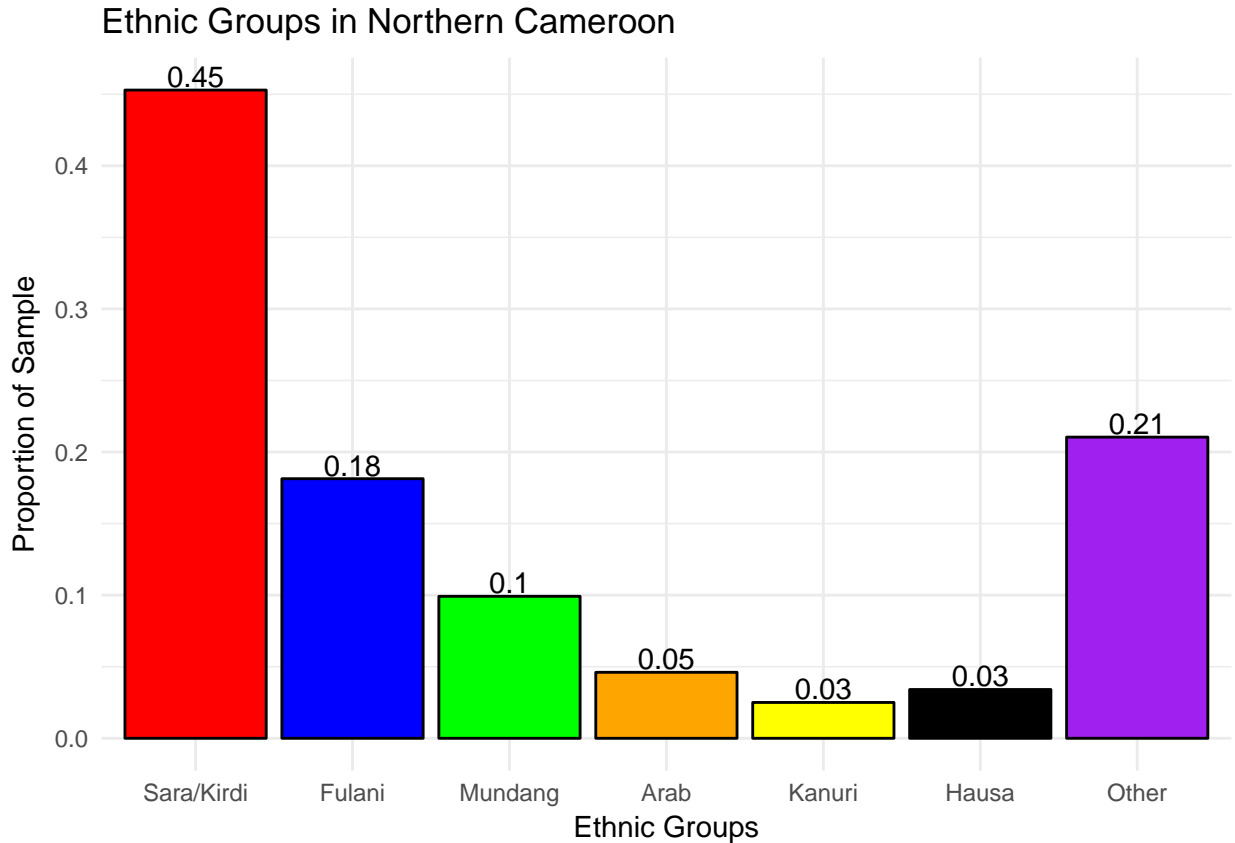
⁸An important point about interview language: people answering the survey in a language other than French/Fulfulde are only in the extreme north.

3.1 Gender, Age, and Ethnicity



Our first histogram shows the age distribution of the survey. Each bar, called a “bin” of the histogram, contains a 5 year age range. The first bin contains everyone aged 15-20, the second contains everyone aged 20-25, and so on. The minimum age in the survey is 16 and the maximum is 90, with an average age of 33 years. The median age is 30, so about half of our sample is above 30 and half is below 30. For the sake of this report, we define youth as anyone under the age of 30, and adults as everyone at least 30 years old.

The survey is gender balanced; 51% of respondents are female and 49% are male. The proportion female is identical for the North and Extreme North regions and for different religious groups. Females are equally likely to be youth (below 30) and adult (30 and above), but males are more likely to be adults (53%) than youth (47%), so the average age of the females (31.6) is slightly younger than the average of the males (34.5). Males are also a bit more likely than women to answer the survey in French than women, who are more likely than men to use Fulfulde or another language.

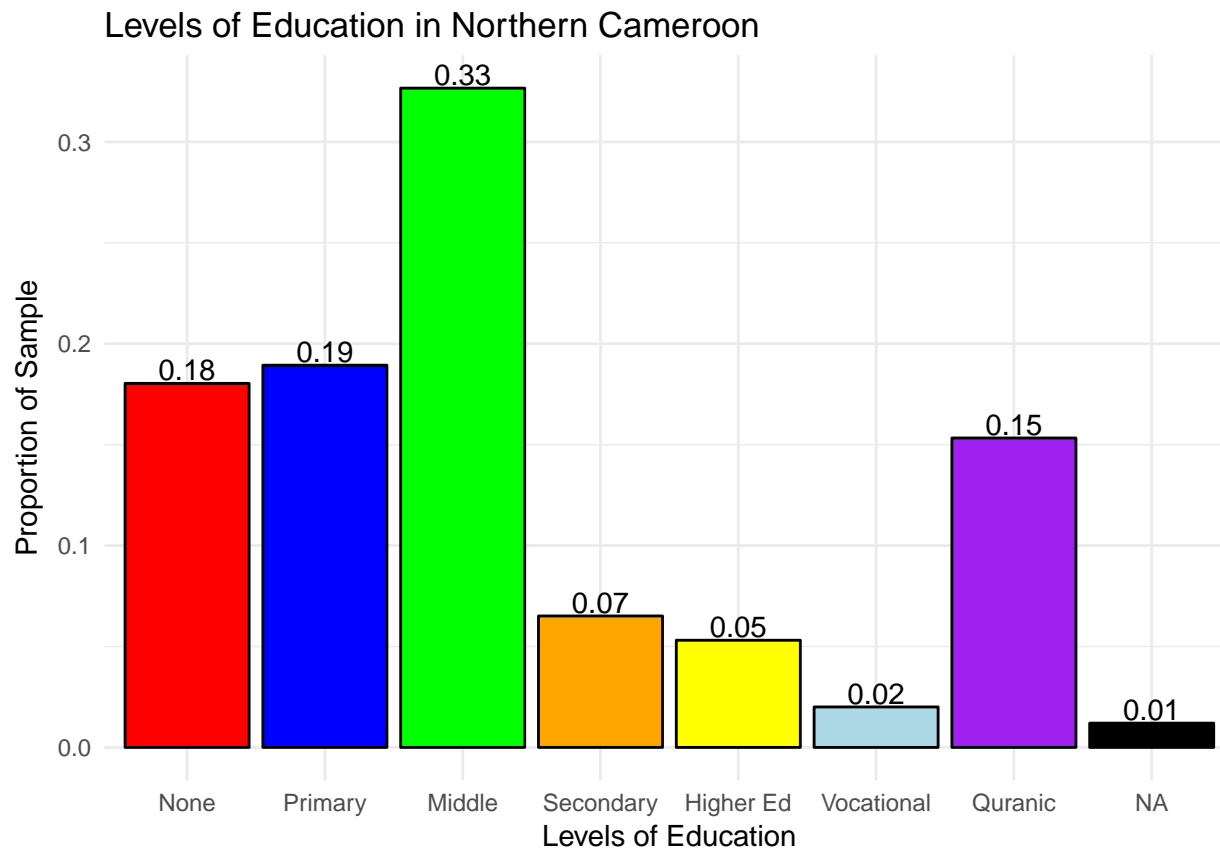


There are over 50 distinct ethnic groups in the survey, but here we present the most prominent groups. A great number of groups⁹ are some form of Sara/Kirdi, and we collapse them into one here, making Sara/Kirdi the plurality ethnicity. After that Fulani are by far the largest single ethnic group as over 18% of our sample, and Mundang the third largest at 10% of the sample. Arabs, Kanuri, and Hausa follow, with 5%, 3%, and 3% of the survey, respectively. No other single ethnic group is even 3% of the sample, but the collection of other ethnic groups make up about 21% of respondents¹⁰.

⁹The groups are: sara, guidar, masa, massa, kirdi, gula, kara, kreish, nduka, ngama, kapsiki, mada, mafa, matakam, mofou, m,oufou, mora, mousgoum, muyang, mouyang, ouldeme, guiziga, podoko, toupouri, tupuri, vame, zulgo

¹⁰Note that the sum of these percentages exceeds 100% because some respondents listed two of these ethnicities.

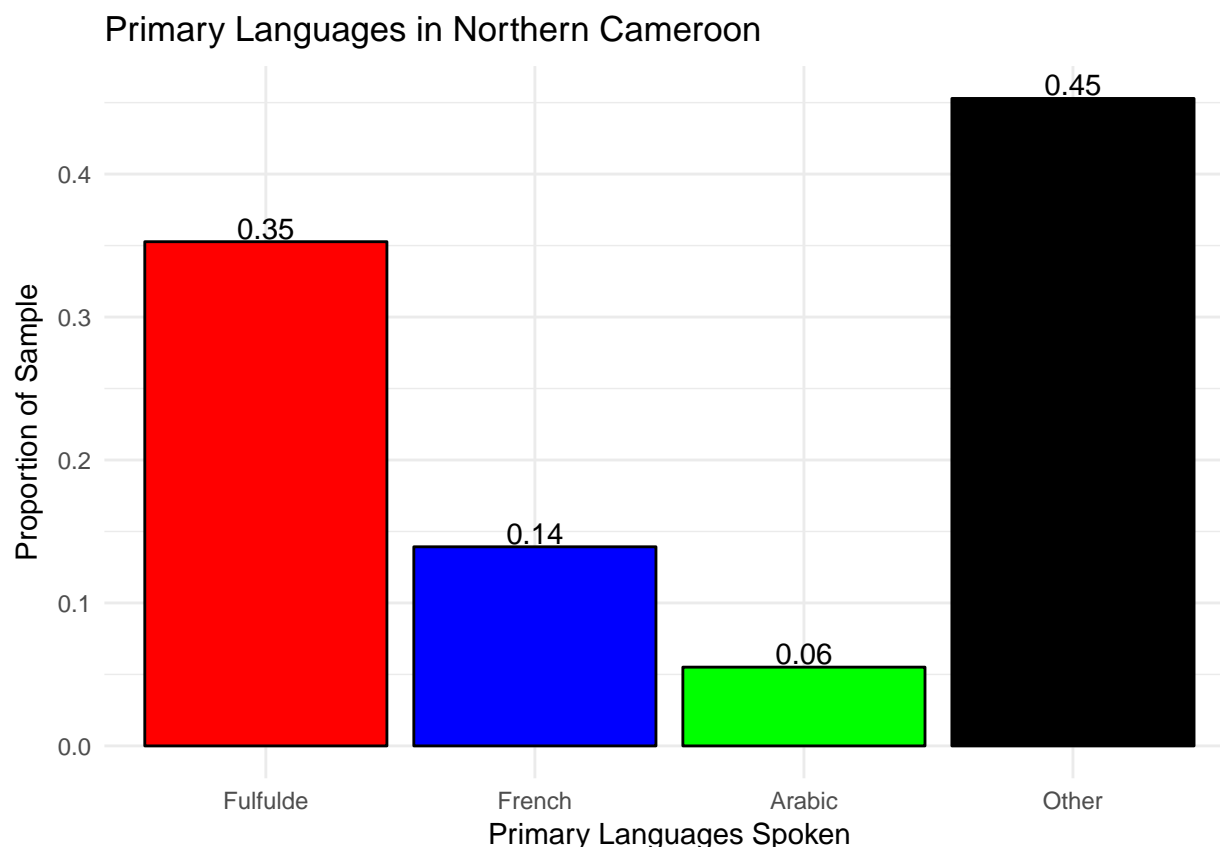
3.2 Education, Literacy, Language, and Religion



The first five bars of the plot show formal education from low to high, from no formal education to a university education. The next three show proportions attending vocational school, Quranic school, and respondents who did not give an answer. Most respondents have limited education levels. The modal amount of education is middle school, with about 1/3 of respondents at that level. Another 37% have less than a middle school education, with 18% of the sample having no formal education. 12% have a high school education or greater, but that is dwarfed by the 15% who received a Quranic education.

Males have higher average levels of education than females due to a large number of females who have no formal education and fewer women with University degrees. Northerners tend to be more educated than those in the Extreme North, again mainly due to more University attendees and fewer people with no formal education. Because the Northern Region is more Islamic and less Christian than the Extreme North, the North also has a higher proportion of respondents in Quranic schools than the Extreme North. Christians and Muslims have similar levels of education overall, but Christians are more likely to have middle school educations whereas Muslims are more likely to have Quranic school educations. There is also more overall variability in Christian education, and Christians are more likely to have no formal education *and* more likely to have a University degree.

Looking at literacy we see a similar story (literacy plot in appendix). Approximately 3/4 of survey respondents said they were literate. Males and Northerners are more likely to be literate than women or people in the Extreme North. People who answered the survey in French are more likely to be literate than those who answered in Fulfulde, who are more likely to be literate than those who answered in any other language. Muslims and Christians have about identical rates of literacy.



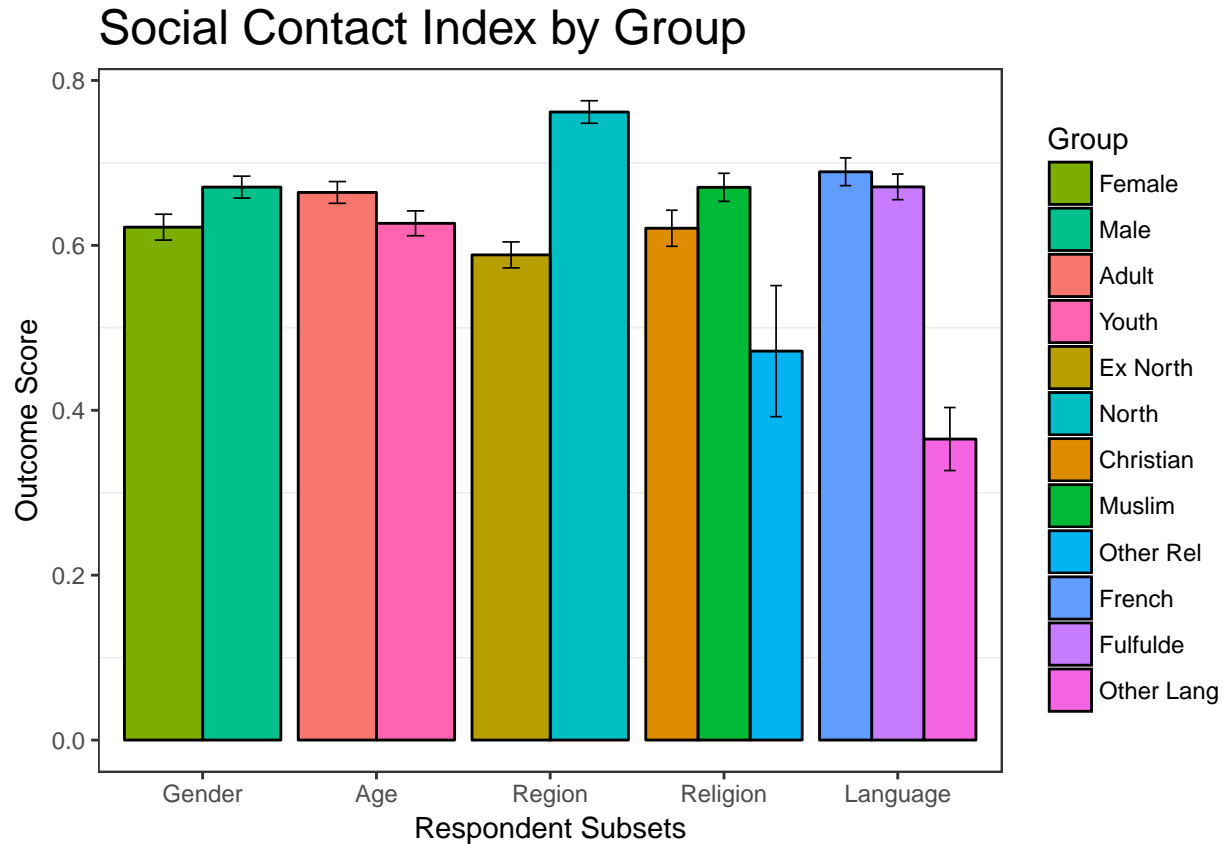
Fulfulde was by far the most common language in the survey, spoken by about 80% of the sample, and the primary language of over 1/3 of respondents. French was next most common, spoken by about 60% of the sample. The only other languages commonly spoken is Arabic, with about 15% of the sample. However, Arabic is especially important as the primary language of the 20% of the population who do not speak Fulfulde. It is common in the Extreme North region. Other languages, such as Hausa and Mundang, are spoken by between 5-10% of the sample. Kanuri, the language of one of the radio programs, is only spoken by 2% of the sample. Readers should note that French – especially answering the survey in French – is a good proxy for education. Almost all of the respondents with a high school education or higher answered the survey in French.

The sample is pretty evenly split between Muslims (55%) and Christians (44%), with 1% of respondents practicing some other religion. As mentioned earlier, the Extreme North has equal proportions of Muslims and Christians, while the North contains a higher percentage of Muslims (65%). Muslims and Christians are intermixed in both regions, and, according to our attitude measurements, co-exist peacefully. The major difference is that Muslims are also more likely to answer the survey in Fulfulde than in any other language, reflecting the fact that the Fulani ethnic group is almost uniformly Muslim.

4 Attitudes

We now summarize the results of questions mainly measuring psychological attitudes of the respondents. We measure (1) social contact with outgroups, (2) perceptions of cultural understanding, (3) support for women's empowerment, (4) religious tolerance, (5) political/civic engagement, (6) feelings towards religious and ethnic outgroups, (7) efficacy and empowerment, (8) youth and elder relations, (9) attitudes about the use of violence, and (10) confidence in institutions.

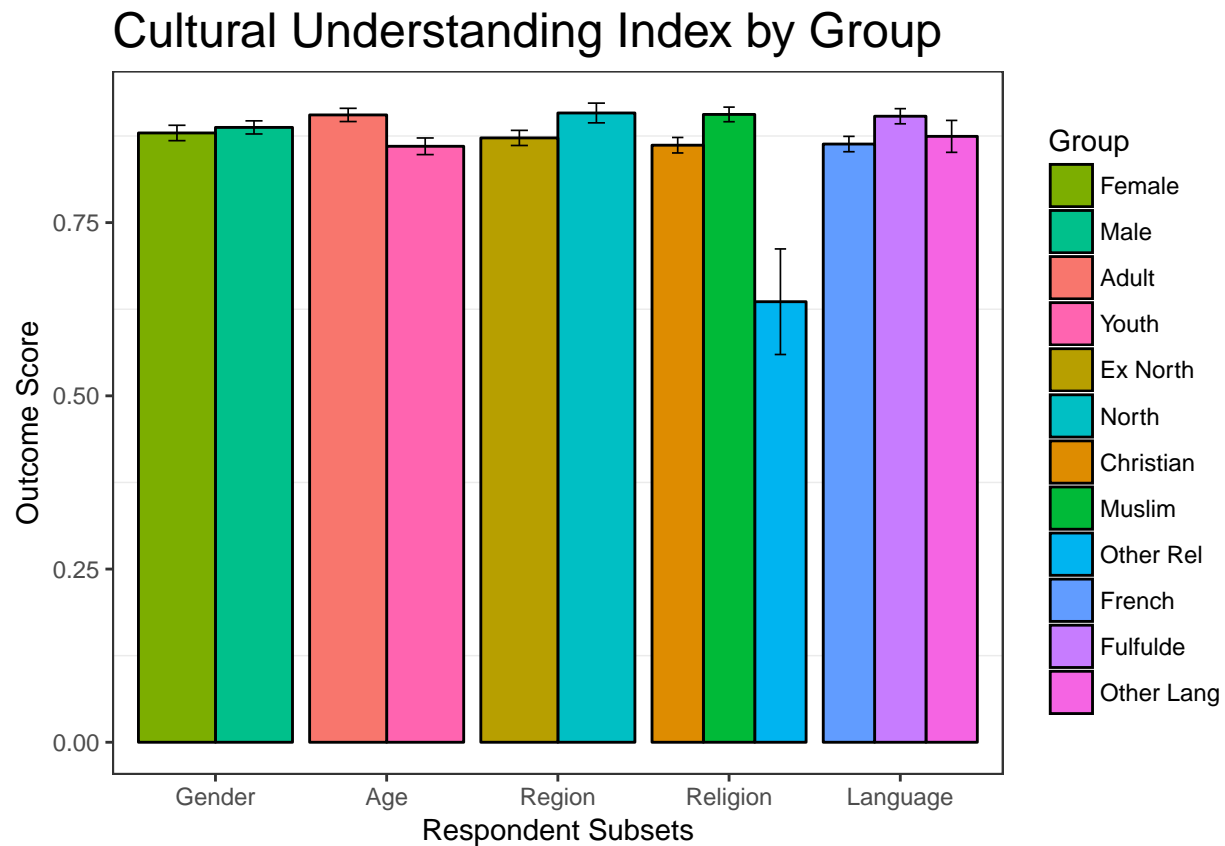
4.1 Social Contact



An important cause and consequence of intergroup tolerance is intergroup social contact. Intergroup contact has been shown in numerous studies to increase intergroup tolerance, and more tolerant people are also more likely to seek out intergroup contact. Here we measure social contact with three questions, combined into an index ($\alpha = 0.76$). The index is scaled from 0-1 and higher scores indicate more contact with outgroups. The specific questions are about frequency of contact with (1) ethnic outgroups, (2) religious outgroups, and (3) foreigners.

The mean score on the social context index is about 0.65, but there are some differences. The largest difference is between people in different regions, with people in the northern region reporting much more intergroup contact than people in the extreme northern region. People who answered the survey in a language other than French or Fulfulde are also much less likely to report having intergroup contact. The graph shows other differences, but these are small and either not statistically significant or not substantively meaningful.

4.2 Cultural Understanding

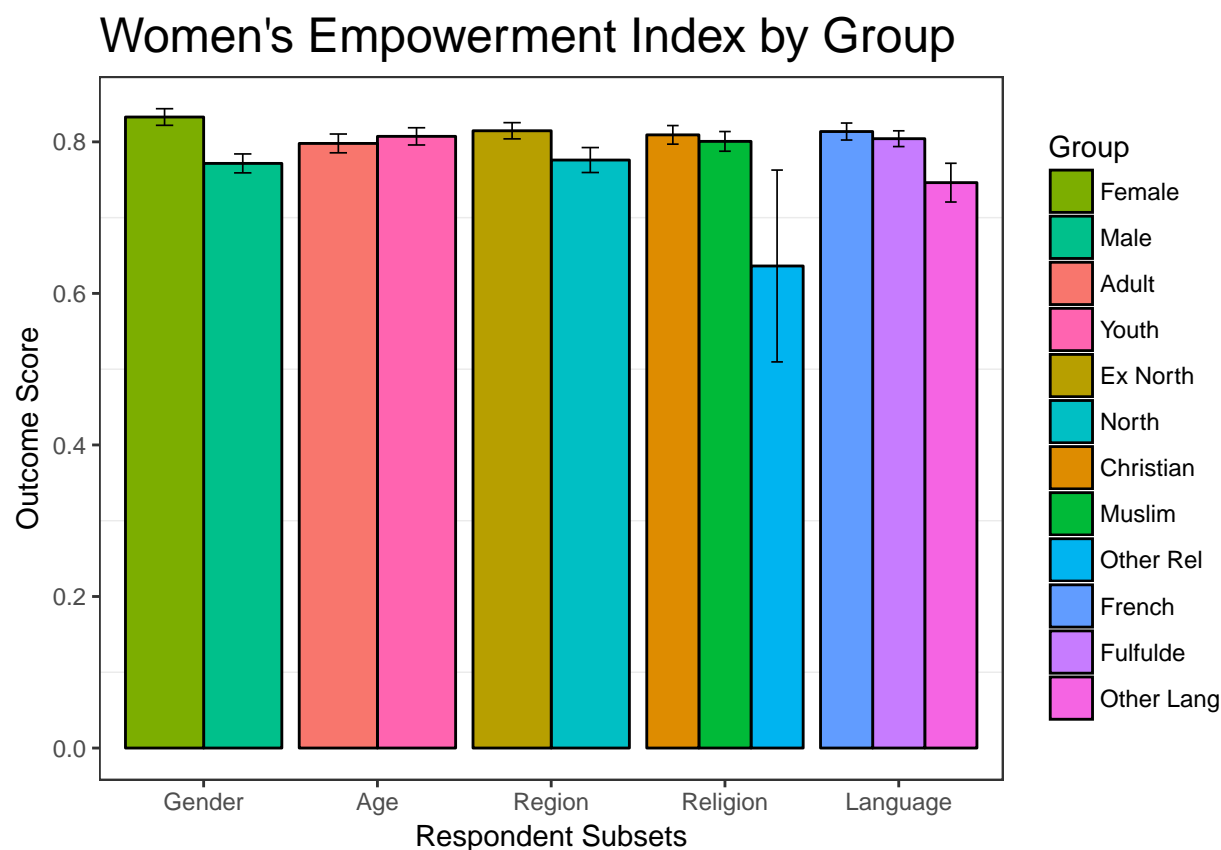


A perceived lack of cultural understanding often feeds the us vs. them narrative that underlies intergroup conflict. This survey measures both a respondent's feeling that living in harmony with different types of people is important in their culture, and the respondent's perception that various "others" understand and respect their culture. Those others are (1) people from other religions, (2) people from other ethnicities, (3) people from other regions of Cameroon, (4) political leaders, and (5) youth.

The mean score for this index is almost 0.9 out of 1, and the graph shows that there are not large differences in perceptions of cultural understanding between most subgroups in the data. Young people and Muslims both score more highly on this index, but only by about .04 points on the 0-1 scale. Overall, all of these subgroups agree equally that it is important to live peacefully with others and that others understand and respect their culture.

4.3 Support for Women's Empowerment

4.3.1 Index

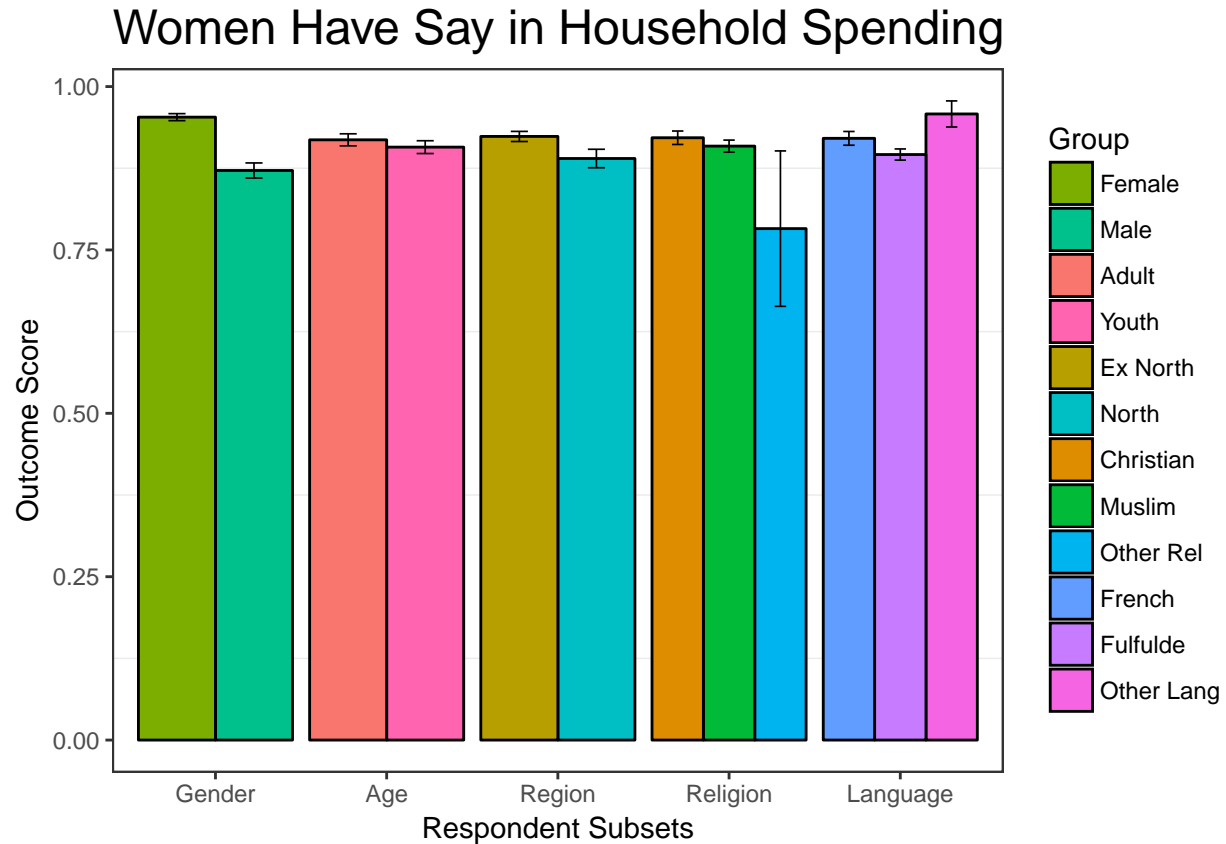


Women are often denied empowerment over their lives. Women are often denied the education of their male counterparts, a say in decisions that affect their communities, or even a choice in their marriage partner. The women's empowerment index measures the extent to which respondents believe that women should have be empowered to the same extent as men. It contains four questions: (1) A woman should have a say in how her household spends money; (2) When a mother works for pay the children suffer; (3) An education is more important for a boy than a girl; and (4) It is not in the best interest of a girl to be married before she is 16 years old. All questions are coded so that higher scores indicate more support for women's empowerment.

The mean score for the index is about [number] on a scale from 0-1, indicating a good amount of support for women's empowerment. Women score higher than men. Extreme north scores higher than north. People speaking languages other than French or Fulfulde score lower.

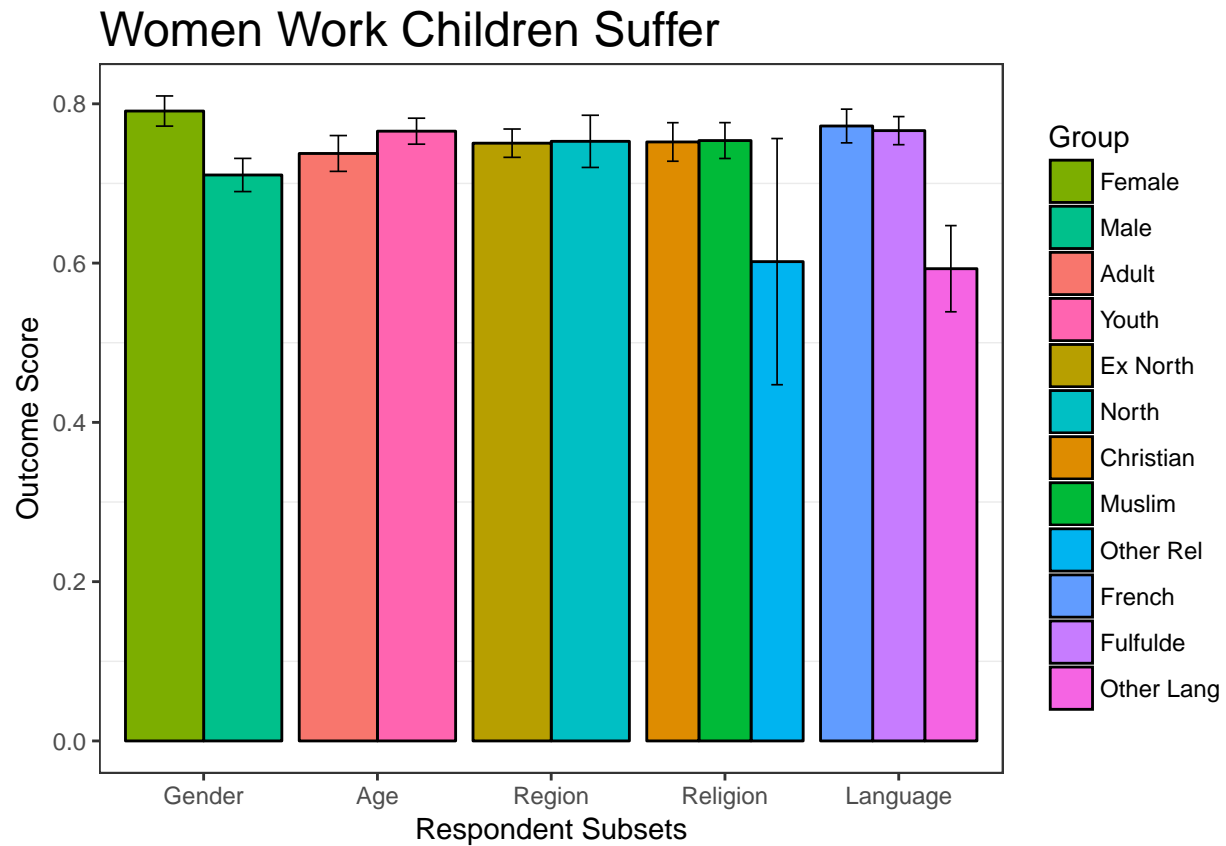
Unlike our previous indices, the alpha for the women's empowerment index is only 0.58. This is not enough internal consistency of us to consider these questions as measuring the same concept. Therefore we now turn to analyses of the individual questions in the women's empowerment index.

4.3.2 Women Household Finances



The first question in the women's empowerment sequence asks if a woman should have a say in how her household spend money. The average response is about 0.85 on a scale from 0-1, indicating that respondents tend to agree or strongly agree with this statement. As expected, women score more highly than men. People answering the survey in languages other than French or Fulfulde are also slightly more supportive of women having a say in household finances than people answering questions in French or Fulfulde.

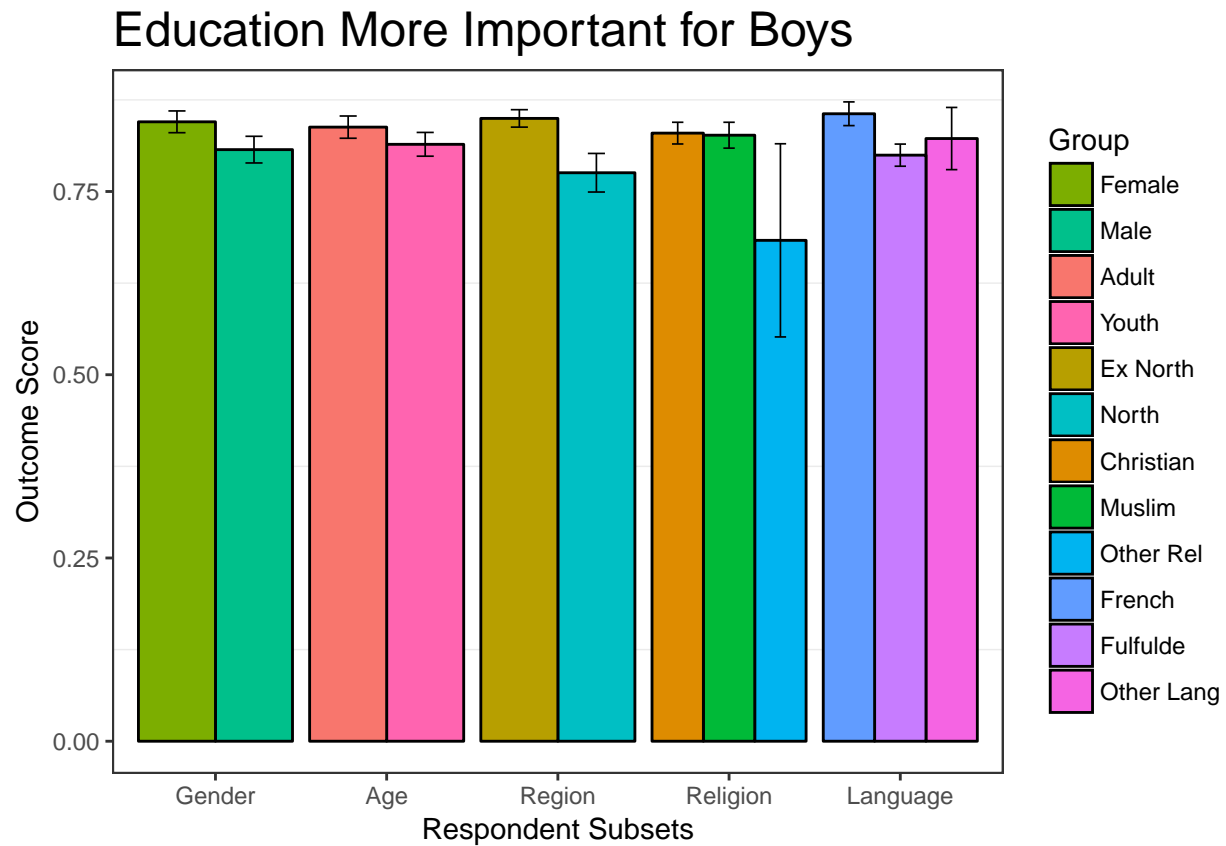
4.3.3 Women Work for Pay



The second question in the women's empowerment sequence asks if children suffer when women work for pay. The responses have been re-scaled in the analysis so that a 1 means a pro-empowerment response (strongly disagree) and a 0 means an anti-empowerment response (strongly agree). The mean score is about 0.73 on a scale from 0-1, indicating support for women, but less support than for the previous women's empowerment question. However, this could easily be due to the reverse scaling of this question (making agreement normatively bad), and a persistent "agreement bias" wherein respondents are more likely to agree than disagree with survey statements. Again, women score higher than men. This time the non-French/Fulfulde speakers score lower than French/Fulfulde speakers¹¹

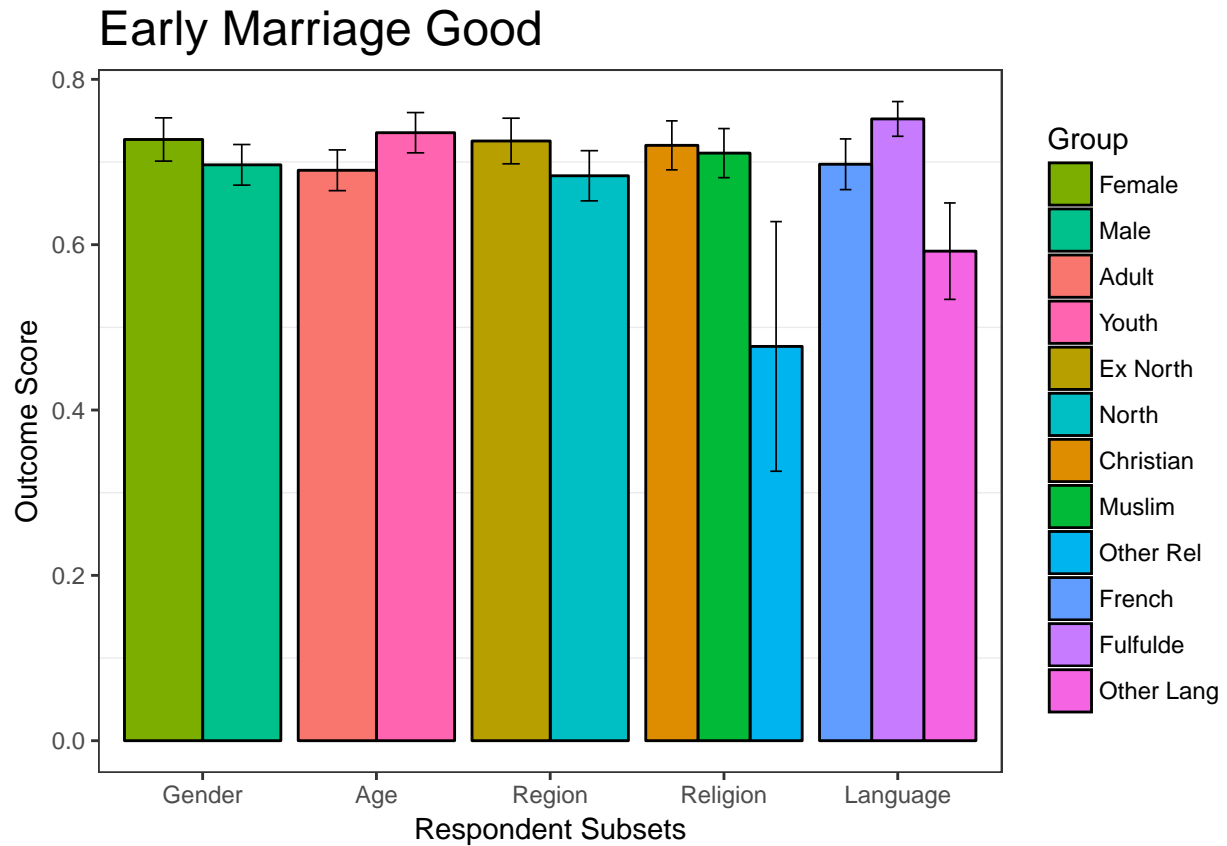
¹¹Due to the relatively low number of non-French/Fulfulde speakers, there is much more random noise in the measurement of their opinions.

4.3.4 Education of Boys and Girls



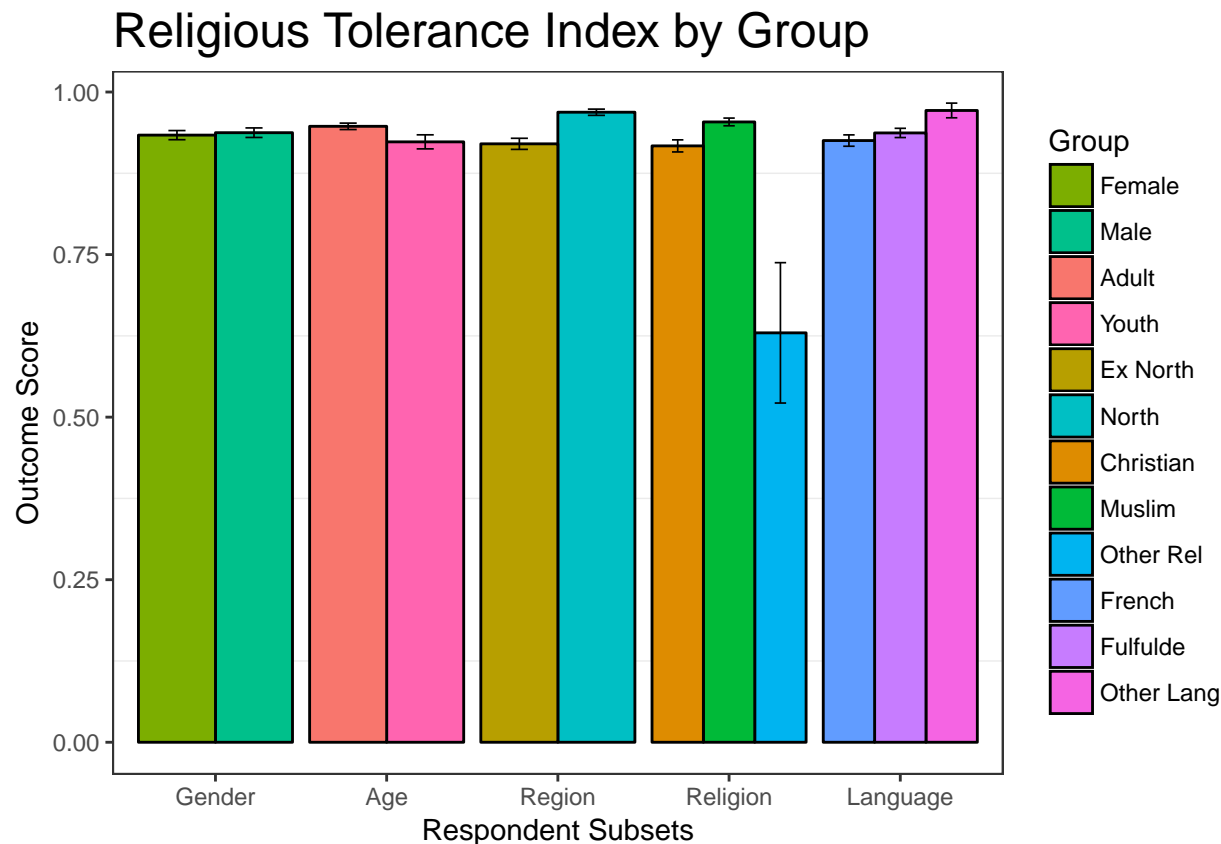
The third question in the women's empowerment sequence asks respondents if education is more important for a boy than a girl. Unlike previous questions, there are *no statistical differences* between men and women. Women score slightly higher, but differences this small occur frequently due to chance. Differences appear by region and language spoken: people in the northern region and people answering the survey in Fulfulde are more likely to agree that education is more important for boys than girls.

4.3.5 Early/Child Marriage



The fourth and final question in our women's empowerment index asks respondents if "It is *not* in the best interest of a girl to be married before she is 16 years old." No meaningful statistical differences. Other religion significantly worse, but few people from that religion.

4.4 Religious Tolerance



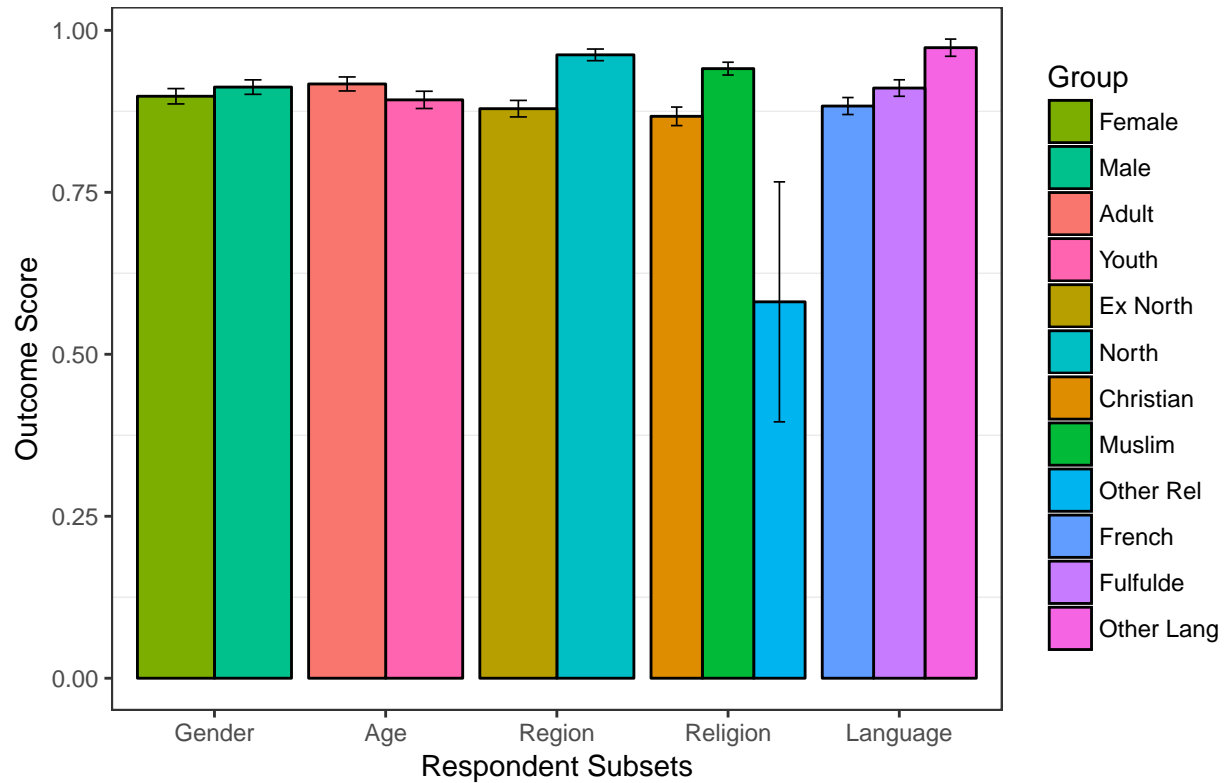
We ask four questions to measure beliefs about an individual's religion and that individual's perceptions of other religions. Taken together, these four questions measure "religious tolerance". The individual questions are (1) There is more than one valid interpretation of religion, (2) My religion promotes peace and tolerance for members of other religions, (3) Other religions promote peace and tolerance for members of my religion, and (4) People of different religions live together peacefully in my community. For each question, higher scores are normatively desirable and indicate more religious tolerance. These four questions form an internally cohesive index with an alpha of 0.73.

All subsets of respondents score very highly on these measures of religious tolerance. The average score on a 0-1 scale is 0.94, and all subsets analyzed score similarly high. Overall there appears to be widespread religious tolerance in the north and extreme north regions of Cameroon.

Though these questions form a reasonably strong index and "move together" (as the response to one question is more tolerant the likelihood of the others being tolerant increases strongly), the baseline values for these questions differ slightly by subgroup. Additionally, these questions measure distinct outcomes in themselves, even if those outcomes fit under the umbrella of religious tolerance. Therefore, we briefly discuss responses to each question.

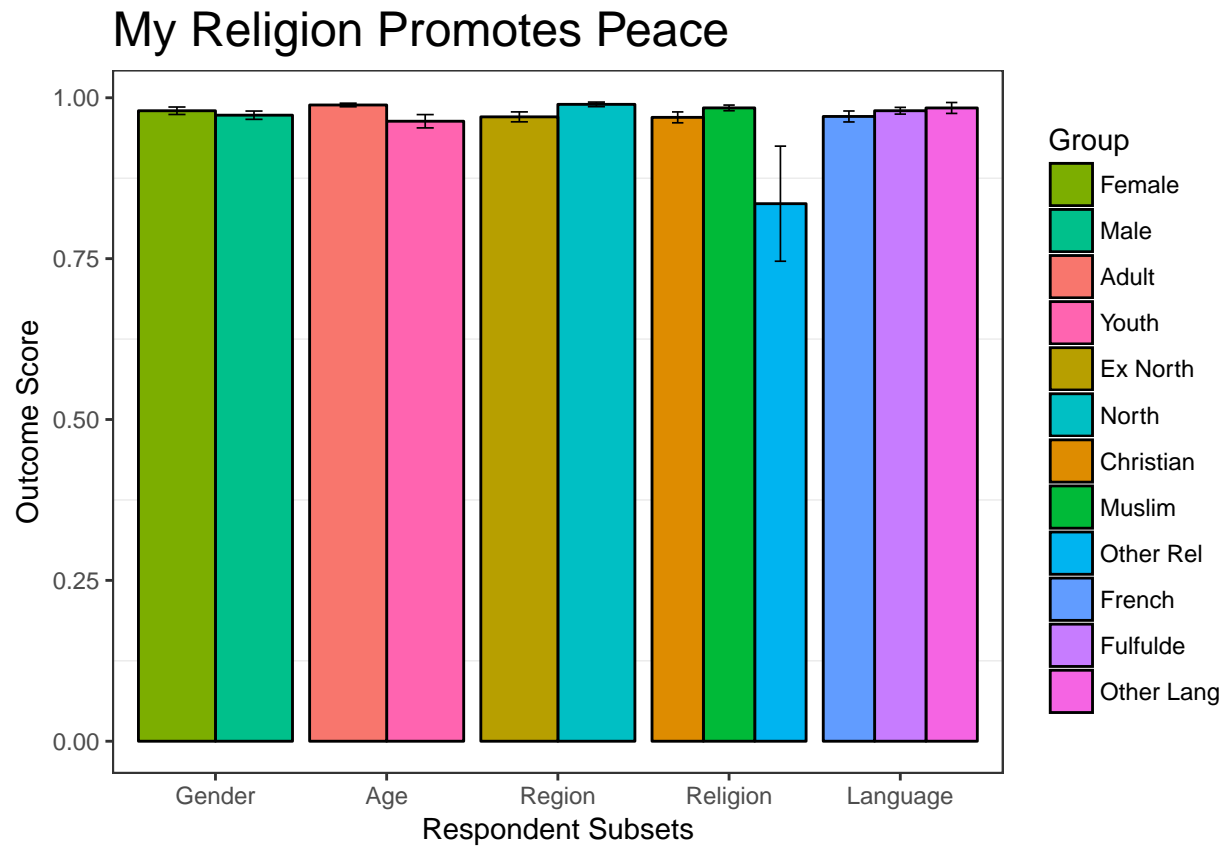
4.4.1 Valid Interpretations of Religion

More than One Valid Interpretation of Religion



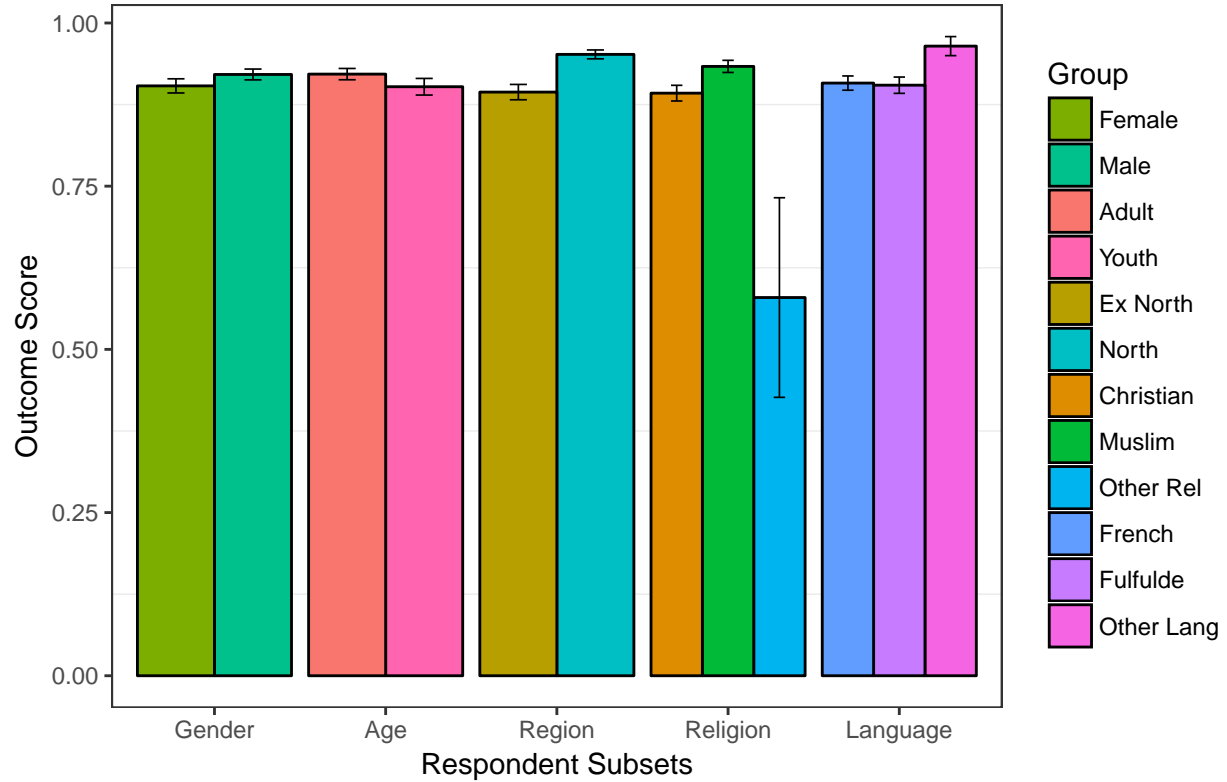
We asked respondents if they believed there was more than one valid interpretation of religion. The measurement intent here is that more religiously tolerant people will agree with this statement and the less religiously tolerant will not. The mean score is about 0.91 on a 0-1 scale, indicating overwhelming support for the idea of multiple valid interpretations of religion. But there are three differences by subgroup. First, respondents are far more supportive in the north than the extreme north. Second, Muslims are more supportive of this than Christians. And third, people who responded to the survey in another language were much more likely to agree.

4.4.2 Religions Promote Peace and Tolerance



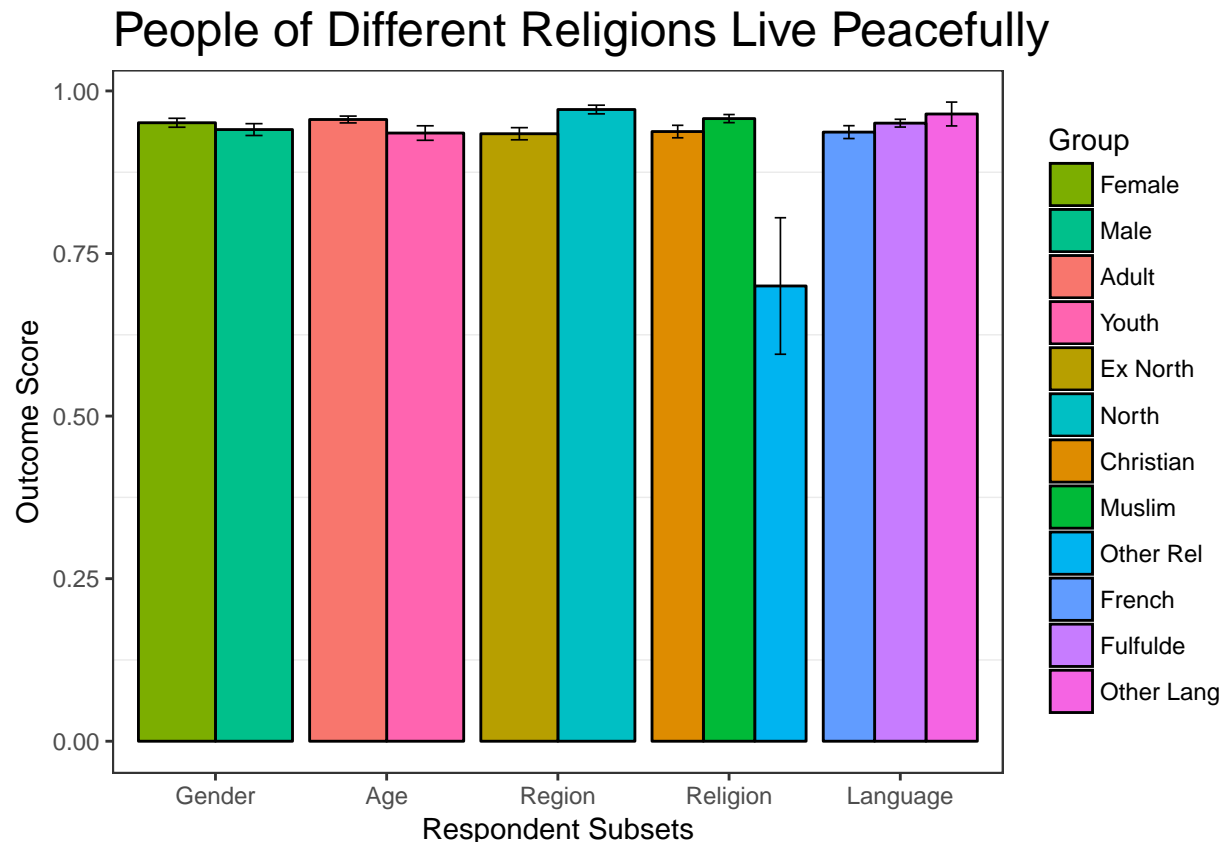
We asked respondents if they believed their religion promoted peace and tolerance towards people of other religions. The mean score is about 0.98 on a 0-1 scale, indicating universal support; almost everyone strongly agreed with this statement. There are no meaningful differences; everyone believes their religion is peaceful.

Other Religions Promote Peace



However, we also asked respondents if they believed other religions promoted peace and tolerance towards people of their religions. The mean score is about 0.91 on a 0-1 scale, indicating widespread support but not universal support. People in the north are more likely to agree than people in the extreme north, and people who speak a language other than French/Fulfulde are again more likely to agree. In an interesting religious difference, Muslims are slightly more likely than Christians to agree that other religions promote peace towards their religion.

4.4.3 People of Different Religions Live Together Peacefully



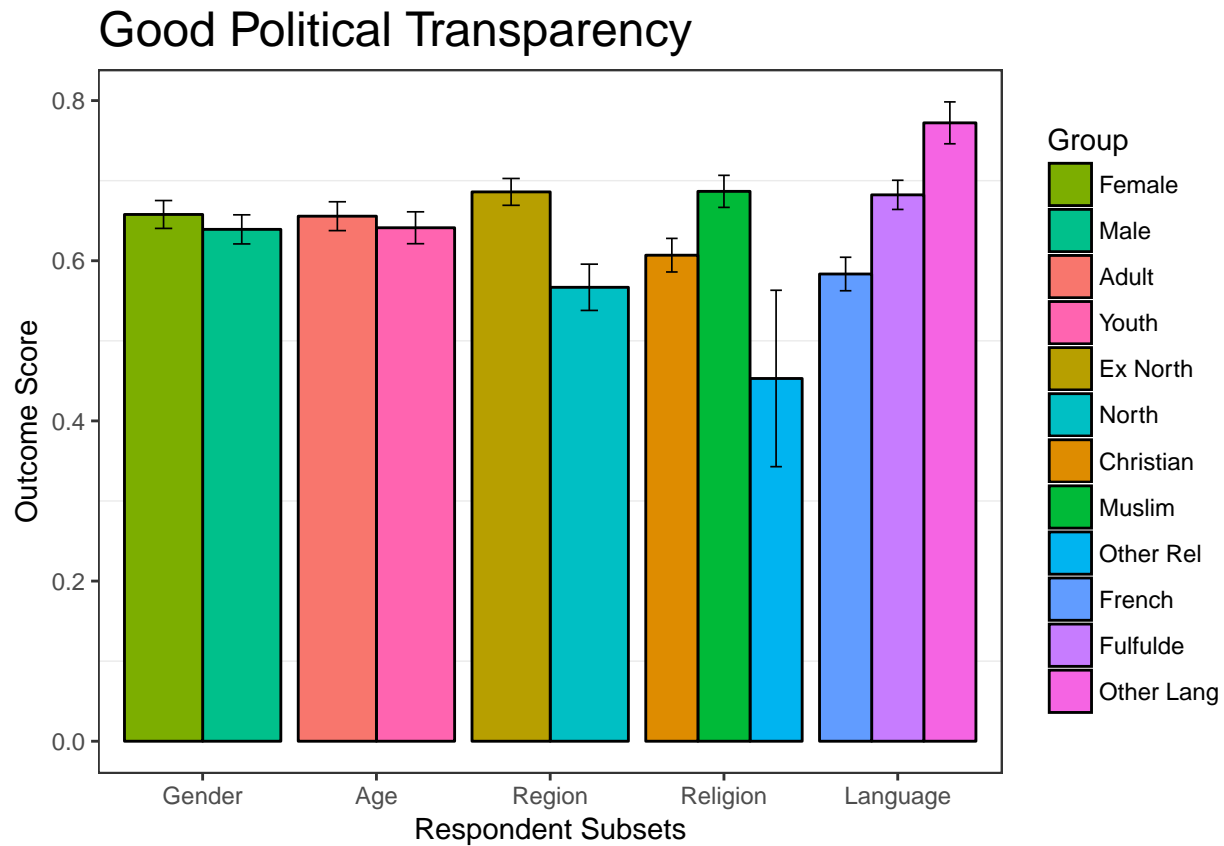
Respondents were also asked if people of different religions live together peacefully in their community, to which all subsets respondents overwhelmingly agreed. People in the northern region are slightly more likely to strongly agree than respondents in the extreme north, but the difference is between 0.97 and 0.94 on the 0-1 scale and so not substantively interesting.

4.5 Political/Civic Engagement

We asked four questions about community and civic engagement. (1) There is good political transparency in my community and citizens are informed of government actions; (2) People in my community do not vote and are not engaged in civic matters; (3) Corruption is a problem in my community; and (4) People in my community give their time or money to solve community problems, such as cleaning out gutters, building schools, wells, or bridges, etc. All questions are recoded from 0-1 so that 0 is a normatively undesirable response (i.e. strongly agree corruption is a problem or strongly disagree people give time and money to solve community problems) and 1 is a normatively desirable response.

These questions do not form a reliable index (as scores on one increase the scores on the others do not increase). Therefore, these cannot be treated as representing an underlying concept and we discuss each in turn.

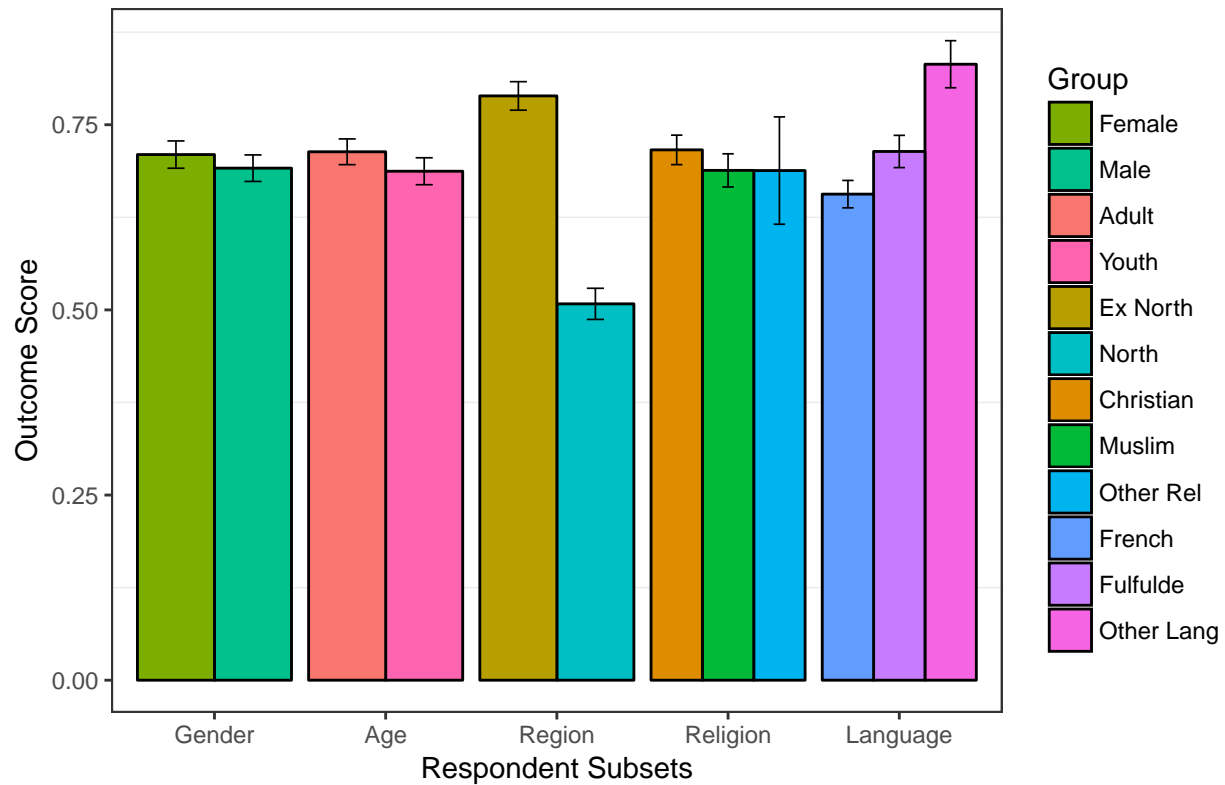
4.5.1 Political Transparency



We asked respondents if they believed there was good political transparency in their communities. The mean score is about 0.66 on a 0-1 scale, indicating only middling support for people in the community having good knowledge of government activities. People in the extreme north are much more likely to believe political transparency is good in their communities than people in the north, and Muslims are much more likely than Christians to believe their communities have good political transparency. And people who answered the survey in French perceive less transparency than people who answered in Fulfulde, who perceive less transparency than people who answered in another language[^][This mimics patterns of education: French-speakers are the most educated, then Fulfulde speakers, and speakers of another language are the least educated. And the more educated a person, the less they believe there is good political transparency. However, the effects of language here persist even when controlling for education level.

4.5.2 Voting and Civic Engagement

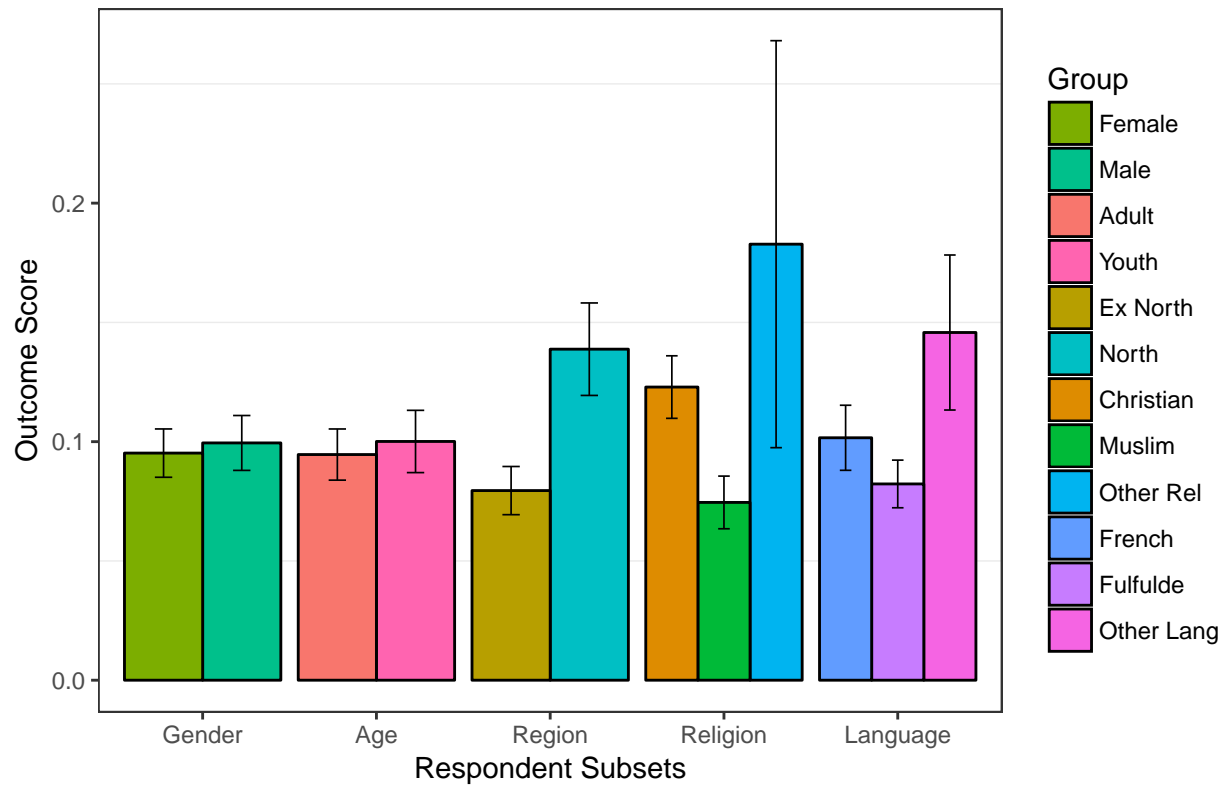
People Don't Vote



We asked respondents if they believed people in their community do not vote and are not engaged in civic matters. This question is scaled so that strong agreement is a 0 and strong disagreement a 1. The mean score is about 0.71 on a 0-1 scale, indicating generally a belief that people are involved in civic matters, but some ambivalence on the part of many respondents. The ambivalence is almost entirely from people in the northern region. In the extreme north, about 66% of people strongly disagree that people do not vote and are not engaged civically. But in the north only about 14% of people strongly disagree with that statement. And we again see the pattern by language wherein French speakers are the most pessimistic about their community and non-French/Fulfulde speakers the most optimistic.

4.5.3 Corruption

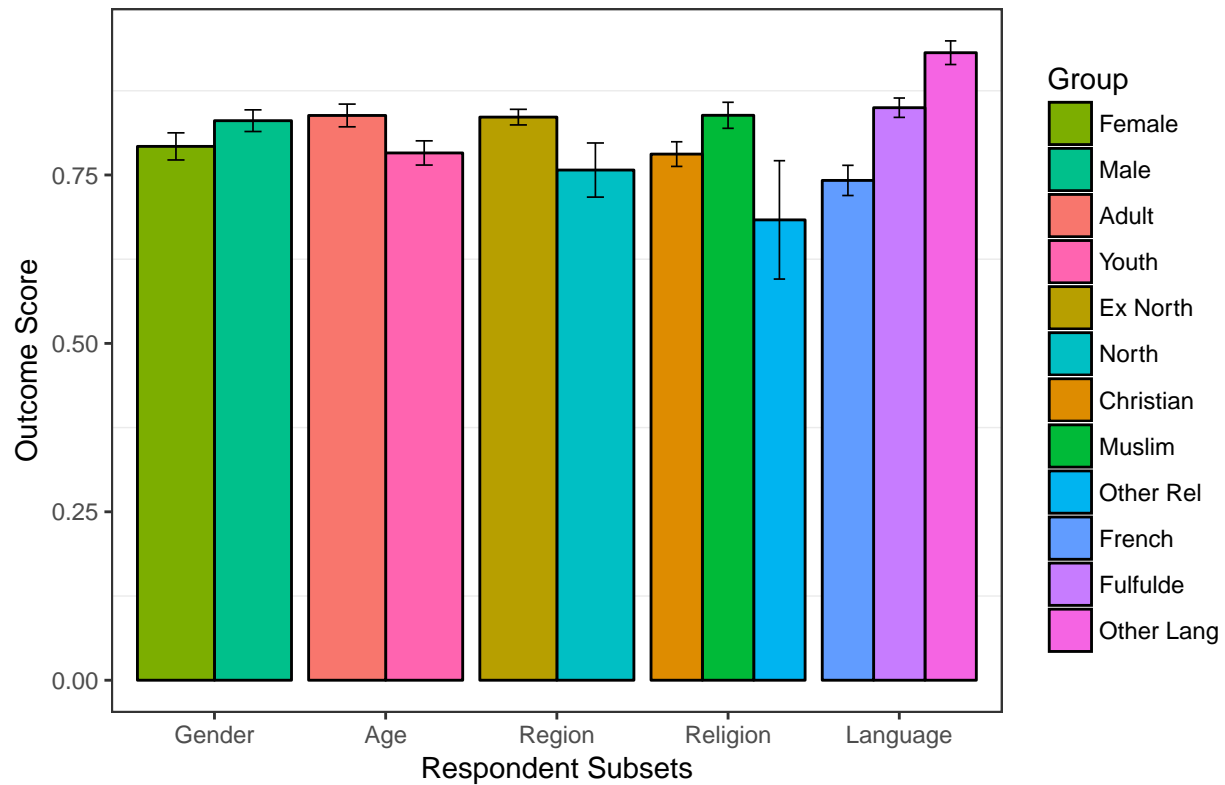
Corruption Not a Problem



We asked respondents if they believed that corruption is a problem in their community. This question is scaled so that strong agreement is a 0 and strong disagreement a 1. The mean score is about 0.09 on a 0-1 scale, indicating that almost all respondents believe corruption to be a problem. There are small differences in magnitude of concern about corruption, but agreement that corruption is a problem. People in the extreme north perceive more corruption than people in the north, and Muslims perceive more corruption than Christians.

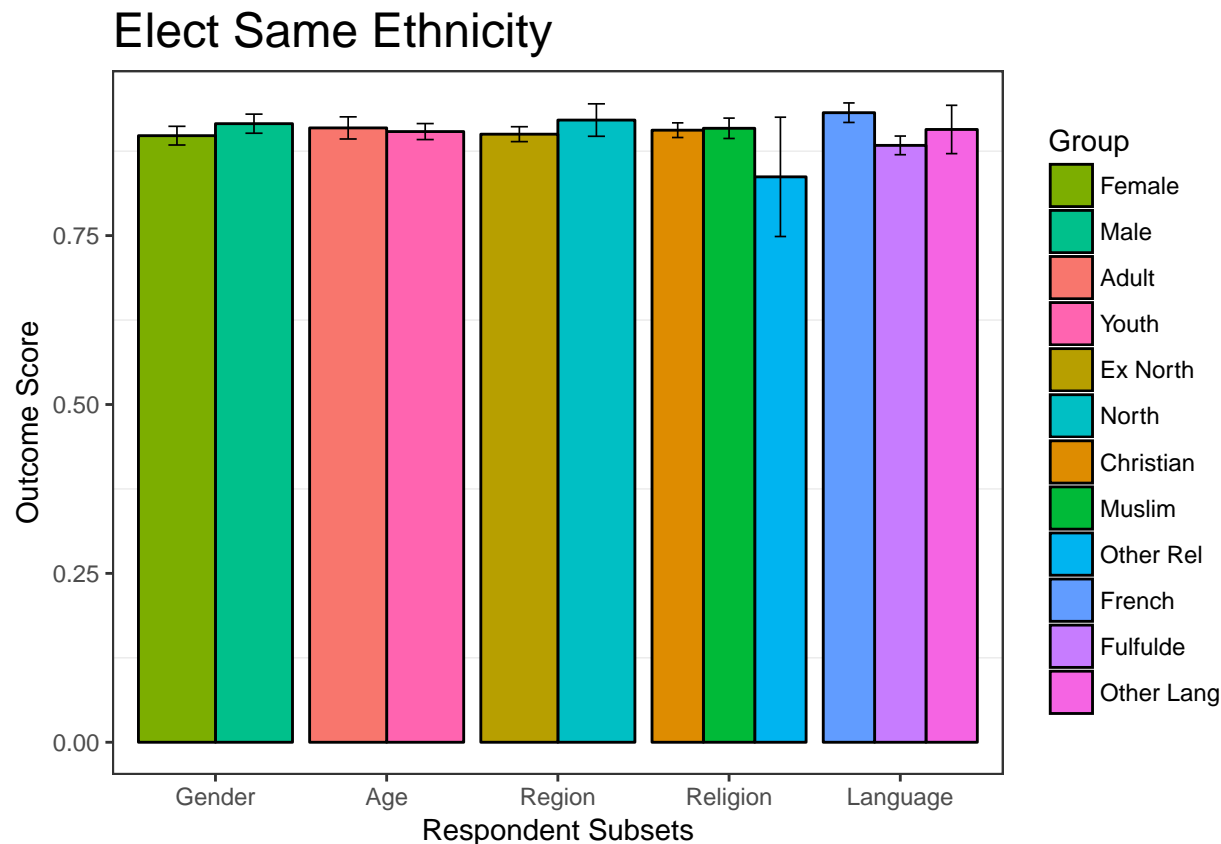
4.5.4 Community Problem Solving

Community Solves Problems



We asked respondents if they people in their community donated time/money to solve community problems. The mean score is about 0.815338 on a 0-1 scale, indicating that most respondents believe people in their communities help out in solving community problems. There are many small differences by subgroup. Males, young people, extreme northerners, and Muslims are most likely to perceive community cooperation. And the familiar language pattern emerges again, with French speakers the least likely to perceive community cooperation, then Fulfulde speakers, and then people speaking some other language.

4.6 Other Religious and Ethnic Group Feelings



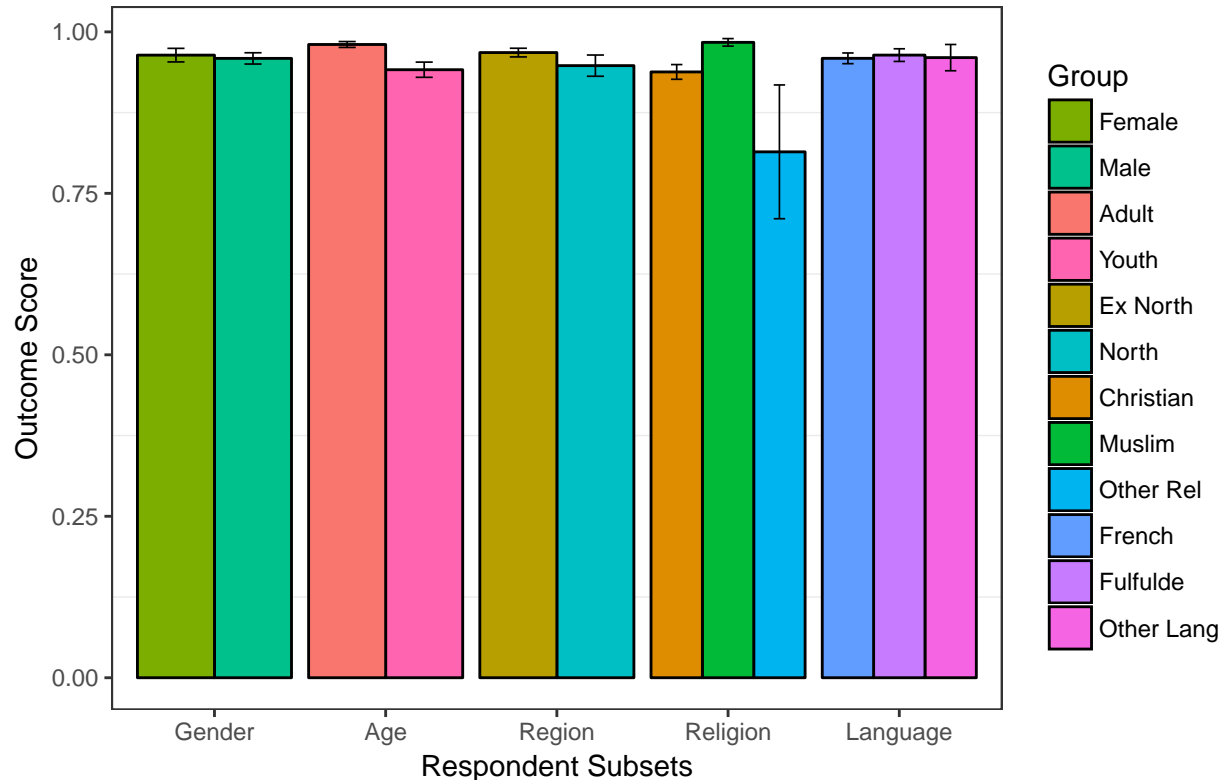
We asked three questions to measure attitudes related to religious and ethnic outgroups in society¹². These questions use binary response outcomes (yes or no) are not intended to be used as an index, so we report them individually. The questions are:

- (1) In elections, people in Cameroon often vote for candidates from their own ethnic group. Which of the following statements is closer to your view? (1) It is normal to want to elect someone from your ethnic community, OR (2) Voters should place much less emphasis on ethnic considerations.
- (2) Differences often exist between people living in the same village/neighborhood. Would you say that ethnic differences tend to divide people in your village/neighborhood, or do people in your village/neighborhood tend to overcome their ethnic differences?
- (3) Would you say that that religious differences tend to divide people in your village/neighborhood, or do people in your village/neighborhood tend to overcome their ethnic differences?

The first question measures their belief in using ethnicity as a reason to vote for a political candidate, and the next two reflect the respondent's perception about acceptance of ethnic and religious outgroups in their communities. Responses to the questions about overcoming ethnic and religious divides are almost identical, so we only show the plot for the religious divide question.

¹²We also conducted a survey experiment, which was unsuccessful and is described in the appendix.

Overcome Religious Divide



For the first question, about 91% of respondents do not believe ethnicity should be important when deciding an elected candidate. This is roughly the same proportion for all subsets of the data, but Fulfulde speakers are ever so slightly more likely to believe ethnic voting is acceptable. For the second question asking if people in the respondent's community overcome ethnic divides, about 97% say yes, with no meaningful differences between subgroups.

For the final question asking if people in the respondent's community overcome religious divides, about 96% of people say yes. There are small but significant differences by subgroup. Importantly, Christians are less likely to perceive religious differences as overcome than Muslims¹³. Youth are also less likely to think their communities overcome religious differences than adults, as are northerners compared to extreme northerners. However, even for the subgroups who are less likely to perceive religious divides as overcome, the vast majority of people in those subgroups *do* perceive the divides as overcome.

4.7 Efficacy and Empowerment

In many contexts, good people feel helpless against the violence and crime they perceive in their communities. Empowering the good, tolerant, non-violent people is a major goal of any peace-building program, and this survey asks four questions to measure the empowerment people feel in changing their communities for the better:

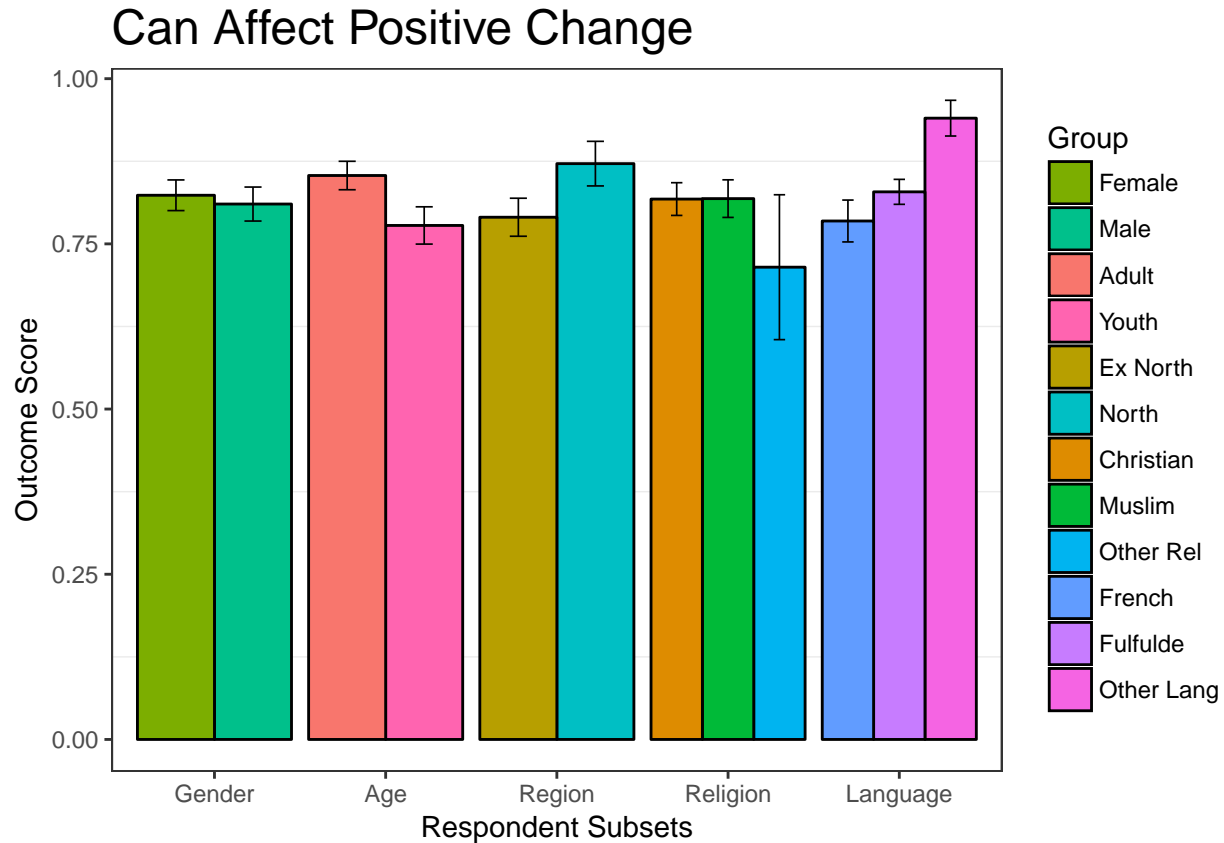
- I am going to read you two statements. Please listen to both, and then tell me which one of them is closer to your view. (1) As an individual citizen, I have the ability to create positive change in my community, (2) The ability to make positive changes in my community rests with those who have more power than I do

¹³this is also true for people who are neither Christian or Muslim, but since these are only 2/11 people we should not place too much weight in this conclusion.

- Violence and insecurity are a problem in my community.
- People in my community have the power to speak out against violence
- I know how to seek legal recourse for myself or a loved one if a law is broken.

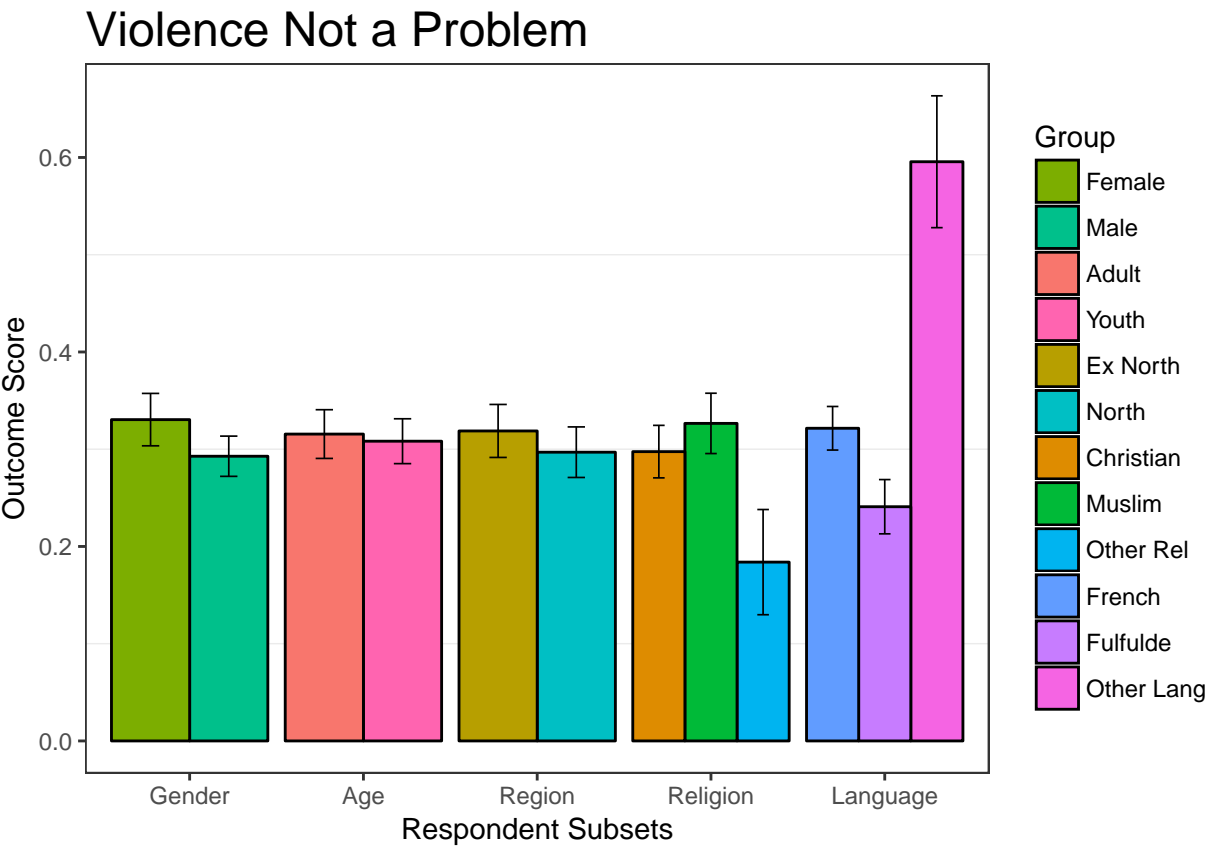
The first question about creating change uses binary response options, and the second, third, and fourth questions are all 4-point scales from strongly agree to strongly disagree. These questions are not intended to measure separate concepts, not a single underlying psychological concept, and so are considered separately, not as an index.

4.7.1 Power to Affect Positive Change



When asked if they believed they had the power to create positive changes in their communities, or if the power to make positive changes rests with those who have more power than the respondent, 82% of respondents reported feeling empowered. Empowerment of this type is relatively high for all groups in the data, but there are some differences. Older people were more likely to report empowerment than youth (0.79 vs. 0.85), and people who responded to the survey in languages other than French or Fulfulde reported more empowerment than French/Fulfulde speakers.

4.7.2 Violence a Problem and Power to Speak Against Violence

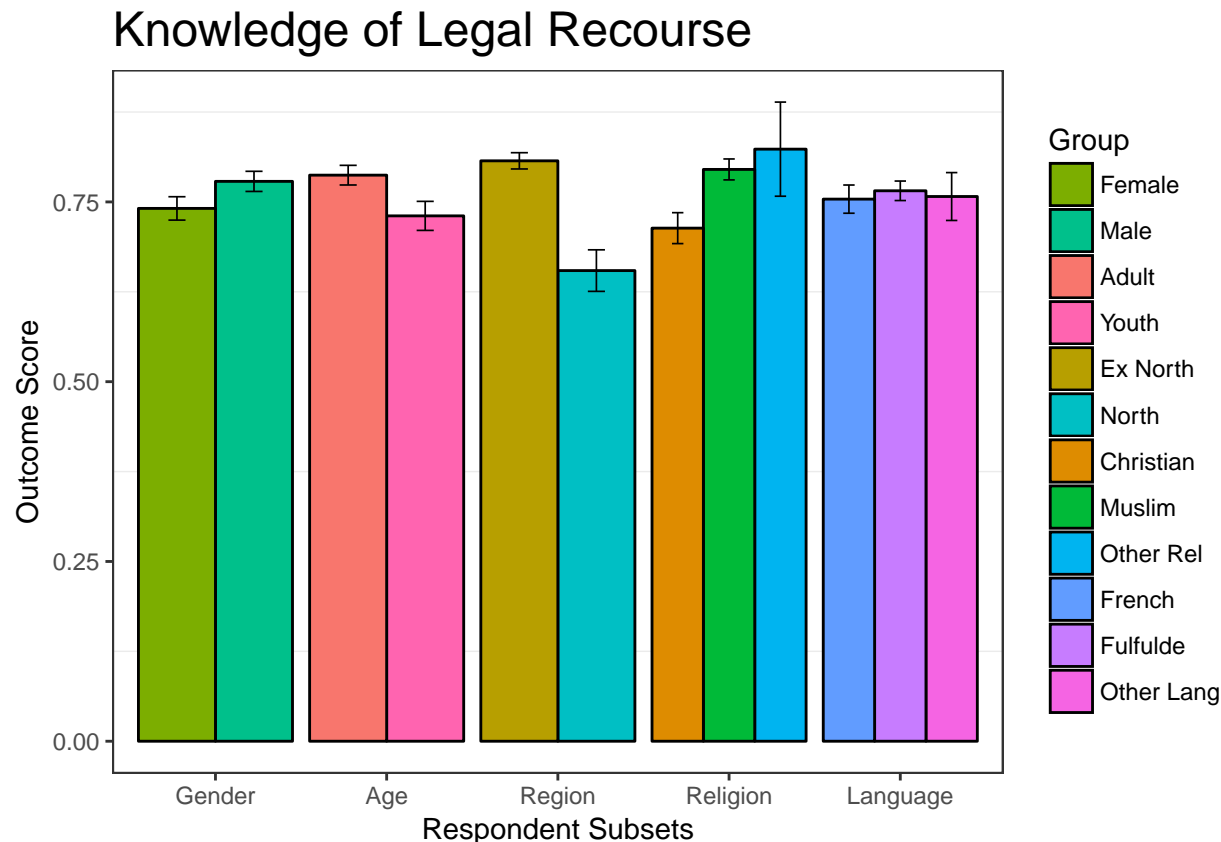


Respondents generally agreed that violence and insecurity were problems in their community. On a scale from 0-1, the average score is 0.3098118, and 49.5% strongly agree that violence is a problem in their communities. All subsets feel similarly, but people who responded in a language other than French/Fulfulde perceive less violence and insecurity in their communities than people who responded in French/Fulfulde. Overall, this questions shows that most people in Cameroon are concerned about violence and insecurity.

Though they are concerned about violence, respondents also generally feel that people in their communities are able to speak out against violence. On a scale from 0-1, the average score is 12.4%. Over half of respondents strongly agree with that statement, and another 0.18% somewhat agree.

The take-away for these three questions is that respondents are concerned about violence, but feel empowered to speak against it and to make positive changes in their community.

4.7.3 Knowledge of Legal Assistance



Respondents generally knew how to seek legal recourse if a law is broken, with an average score of 0.76 on a 0-1 scale where 1 corresponds to “strongly agree” and 0 with “strongly disagree”. The modal response is “strongly agree”, with over 60% of respondents answering that way. However, there is a stark difference by region: in the extreme north, 66.8% strongly agree and another 15.8% somewhat agree, but in the north only 45.9% agree, and 20.8% somewhat agree. Muslims also report more knowledge of legal recourse than Christians, as do adults compared to youth

4.8 Youth-Old

We ask five questions about youth and elder relations in the survey. These questions are not intended to measure an underlying attitude dimension, so we analyze each in turn rather than combine them into an index. Four of the questions use a 4-point scale from strongly agree to strongly disagree. One question – if youth should be involved in community decisions or if they should follow the lead of their elders – uses binary response options. Three of these questions are generally about elders and two are generally about youth. We use those two structures to analyze the youth-elder relations questions in the next sections.

The three questions about elders all use the strongly agree-strongly disagree scale:

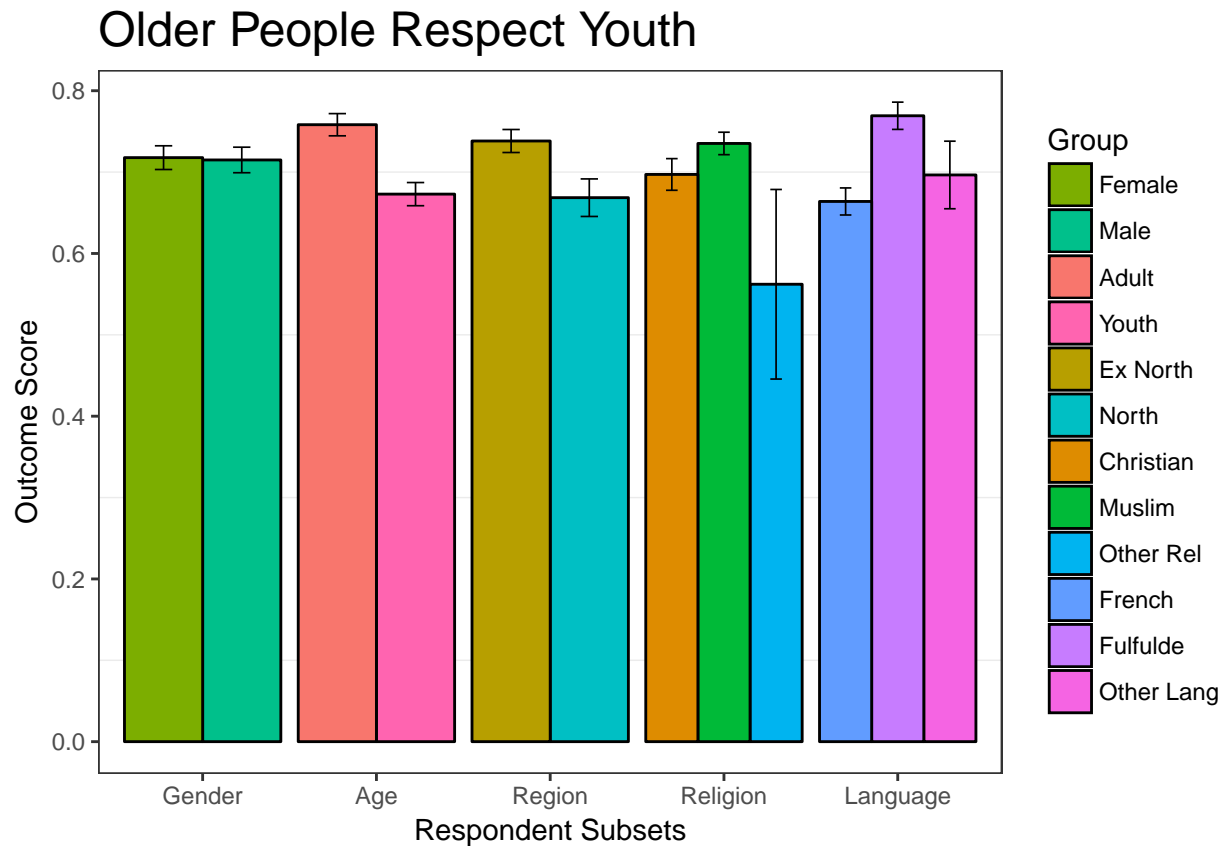
The three questions about elders and elders’ feelings towards youth are on a strongly agree-strongly disagree scale.

- Older people listen to and respect the desires and motivations of younger people.
- Older people understand the world that youth are growing up in.
- The ways in which elders solve problems are still applicable today.

The two questions about youth are on different scales. The first is on a strongly agree-strongly disagree scale, and the second uses binary response options:

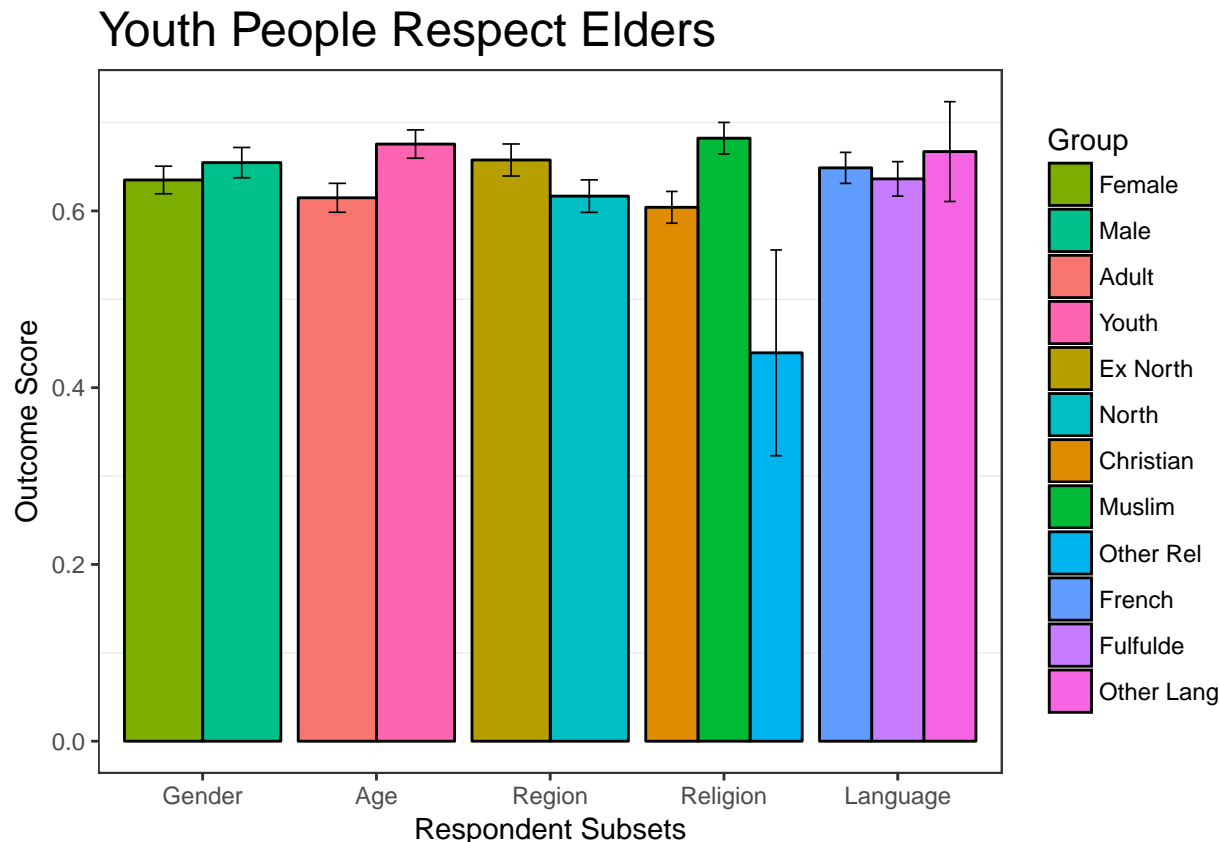
- Younger people listen to and respect the desires and motivations of their elders.
- Do you think that youth should get involved in your community’s leadership and decision-making, or would you say that youth should follow the lead of their elders?

4.8.1 Elder Respect for Youth



Overall, respondents in the survey believe that older people respect and understand youth, with an average score of above 0.7 on a 0-1 scale for all questions. There is substantial heterogeneity in the data, especially by age: adults are much more likely than youth to believe that older people respect and understand youth. When looking at people over 50 compared to people under 30 the difference is even more stark, with between 57%-68% of people over 50 “strongly agreeing” with each statement, but only between 35%-40% of people under 30 strongly agree. People who answered the survey in French score lower on these questions, while people in the extreme north region and Muslims score higher, though non-age differences are only significant for the question asking if older people respect youth.

4.8.2 Youth Respect for Elders



Unlike the questions about elders, these two questions are substantially different, so we discuss them separately.

Overall, perceptions of youth respect for elders is very high. On average respondents score 0.65 on a 0-1 scale when asked if youth respect elders. However, youth score significantly higher than people 30 and over, and the difference is slightly larger when comparing youth under 30 to elders aged 50 and older. Under 60% of respondents 50 and older agree at all to the statement, whereas about 75% of youth agree. Muslims are also more likely to perceive youth as respectful towards elders.

In terms of youth being more involved in community decisions, all subsets of the data agree at about the same rate. 88/% of the sample says that youth should be more involved, and that's about the same for all of the normal comparisons we make in the data. However, for the youth-old questions we also compared youth to people aged 50 and over, and about 7% fewer people aged 50 and over believe youth should be more involved.

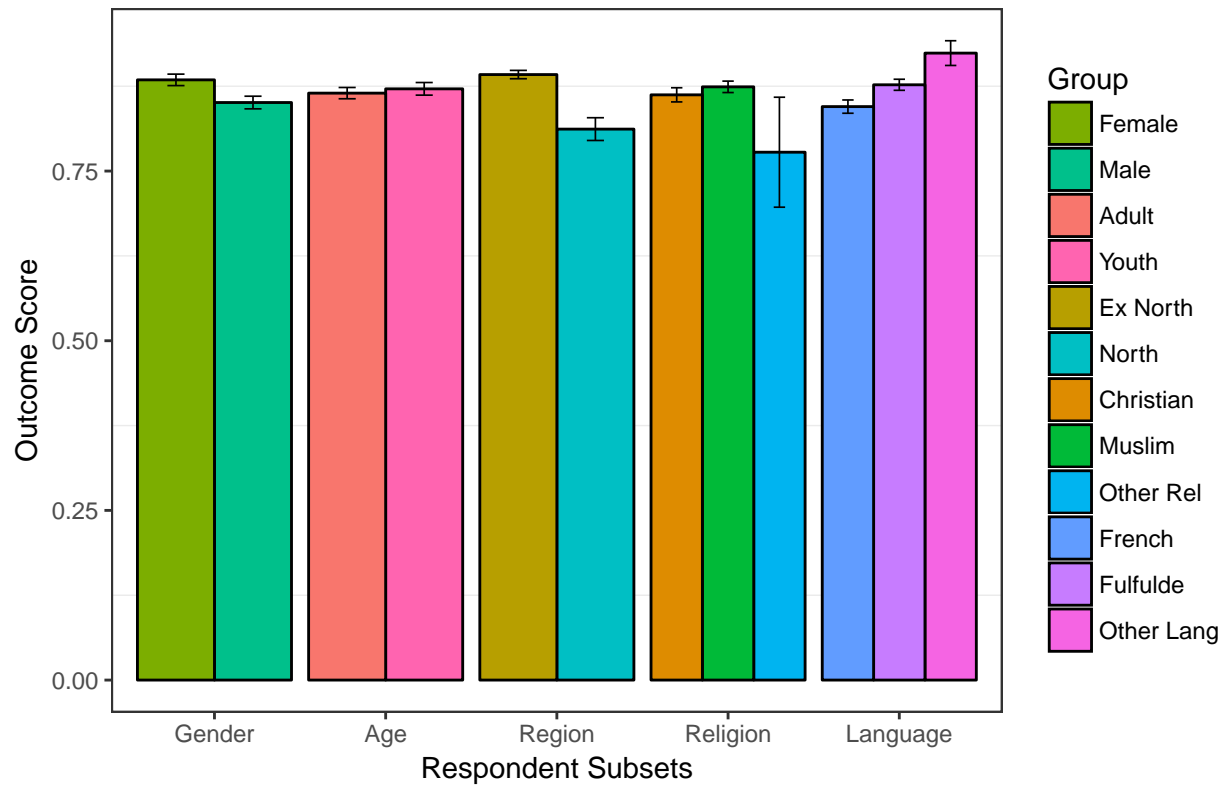
4.9 Violence

We would like to know if people believe violence is a means to achieve goals, or if people generally eschew violence. To learn about that in Cameroon, we measure attitudes about the use of violence. We ask four questions about violence, and they conform to a cohesive index with an alpha of over 0.70. Each question is a scenario in which the respondent might use violence. For each scenario, we ask the respondent if the use of violence is justified always, sometimes, rarely, or never. The four scenarios are:

- Defend one's religion
- Maintain culture and traditions
- Bring criminals to justice when the government fails to act

- Force the government to change their policies or actions

Violence Index by Group



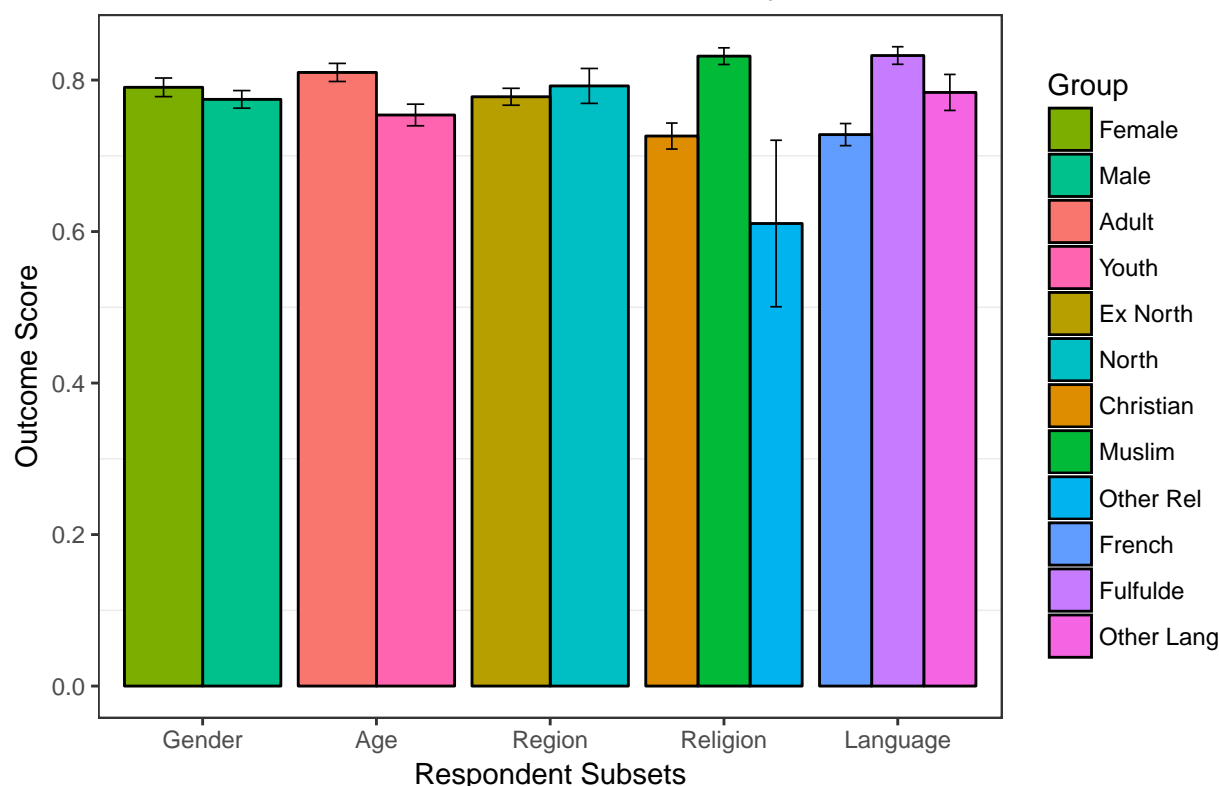
All questions have been re-scaled so that higher scores are normatively desirable and lower scores are normatively undesirable. An answer of “always” equates to a score of 0 and an answer of “never” equates to a score of 1. The violence index is also scaled from 0-1, and would be 0 if a respondent answered “always” to each questions and would be a 1 if a respondent answered “never” to each question.

Overall there is strong support against the use of violence; the average score on the index is 0.87 out of 1. All subsets express similar beliefs that violence is not generally acceptable, but people in the north are more accepting of violence than people in the extreme north, by about 7 points on this scale. There are three differences by subsets: (1) women are less accepting of violence than men, (2) people who answered the survey in a language other than French/Fulfulde are less accepting of violence than French/Fulfulde speakers, and (3) people who answered with Fulfulde are less accepting of violence than people who answered in French.

Anti-violence attitudes are extremely strong in all contexts save one: vigilante justice against criminals. Most people in the survey still do not accept violence in this case, but about 25% of the sample say that violence is sometimes or always acceptable in this case. More people believe this type of vigilante violence is “always” acceptable than believe every other type of violence is always acceptable. This response hints that violence is a problem in these communities, and that people may resort to fighting violence with violence to defend themselves.

4.10 Institutional Confidence

Institutional Confidence Index by Group



We asked about respondent's confidence in institutions. We asked about:

- Your local community radio station
- Judicial system
- Religious leaders
- Traditional leaders
- Local government

The confidence that respondents have in these institutions measures the confidence people have generally in civil society and governance institutions. The alpha for these questions is 0.77, indicating a cohesive index measuring one underlying concept. The index is scaled so that higher scores mean more confidence in institutions.

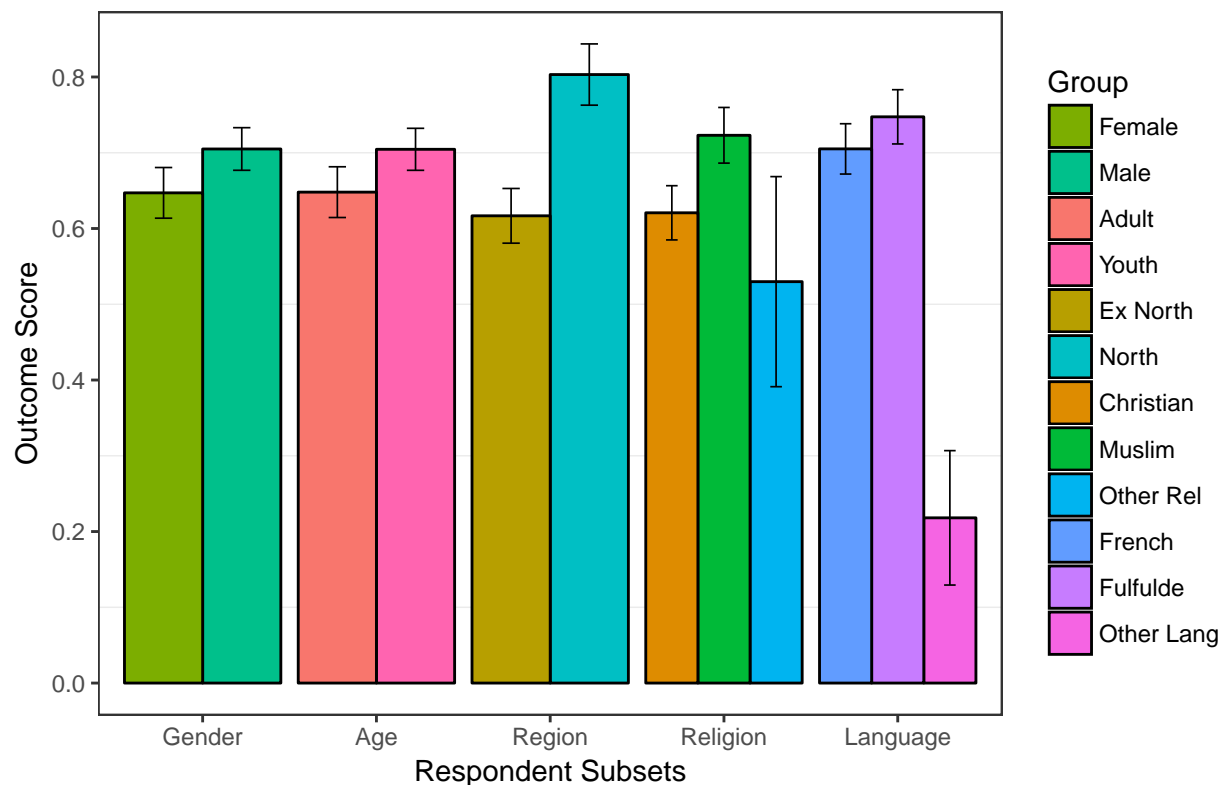
Respondents have strong trust in institutions overall, with a mean score of 0.79 on the 0-1 scale. Adults have more confidence in institutions than youth, and Muslims have more confidence than Christians. People who answered the survey in Fulfulde have more confidence than people who answered the survey in other languages. Confidence for these institutions is fairly high for all institutions except the justice system. For each of the non-justice system institutions, the average score is above 0.75; the average score for the justice system is only about 0.67.

5 Technology and Media Access

The next section summarizes the survey results relating to technology and media access. These questions ask about access to utilities like electricity, mobile phone use, and radio and television viewing.

5.1 Utilities

Regular Access to Electricity

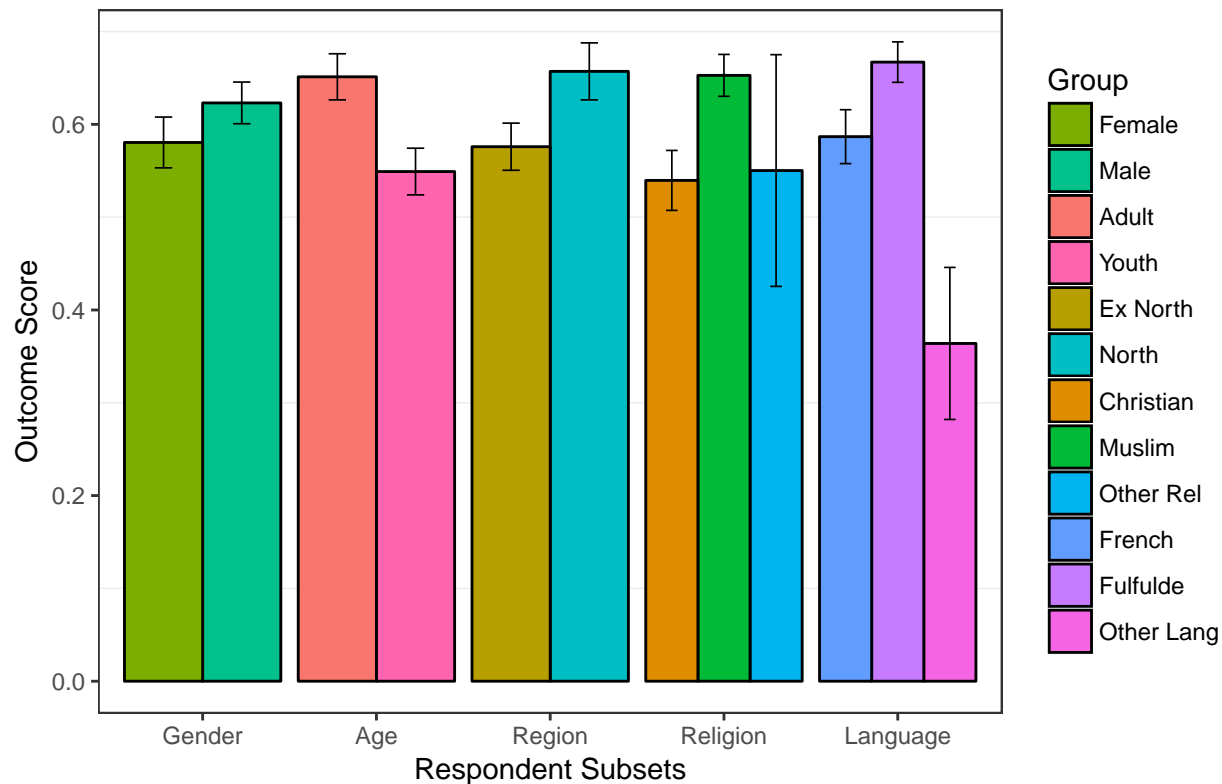


About 67% of respondents reported regular access to electricity, with people in the northern region (81%) reporting much more access to electricity than people in the extreme north (61%). Muslims also report more access to electricity than Christians, but this is only because Muslims are more likely to live in the North, and people in the North are more likely to have electricity. Muslims in the North and Christians in the North are equally likely to have access to electricity, as are Muslims and Christians in the Extreme North. However, people who answered the survey in languages other than French/Fulfulde are *much* less likely to have electrical access, even controlling for region.

5.2 Phones/Tech Access

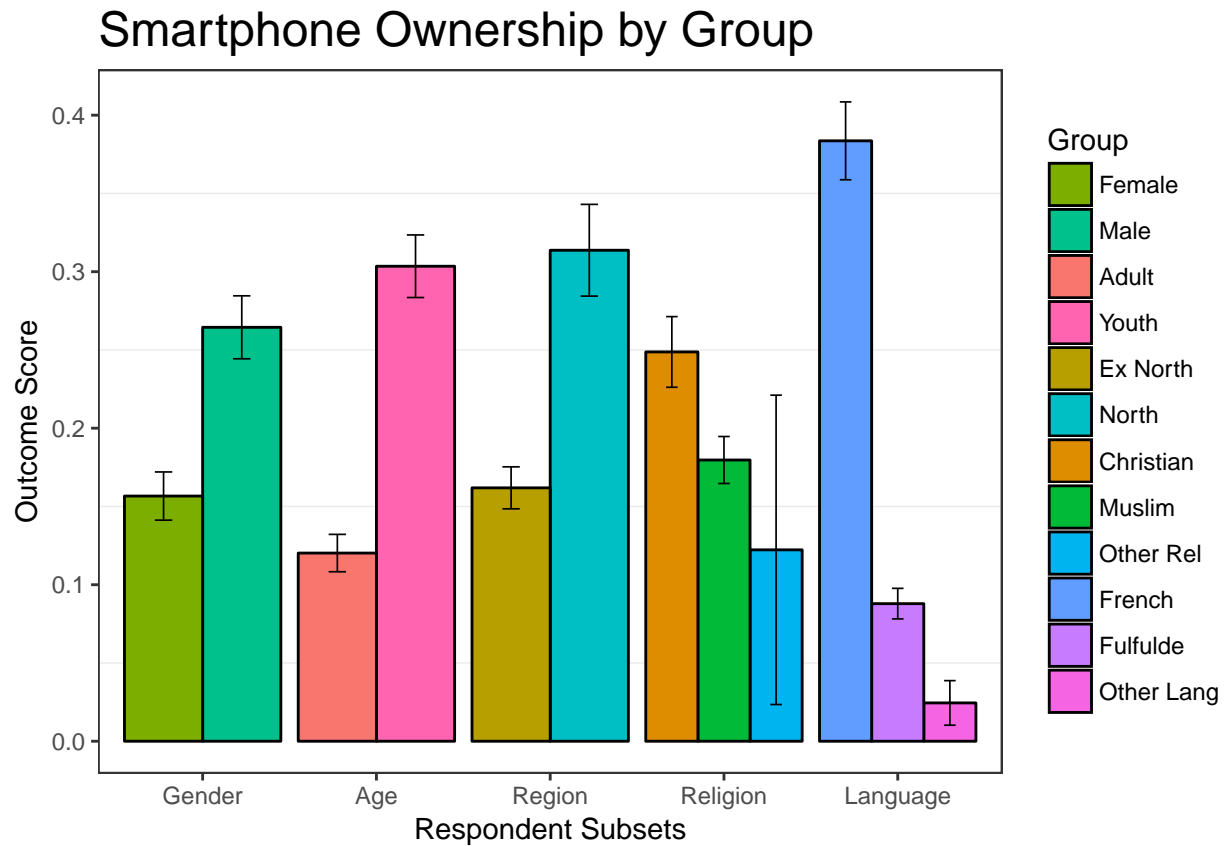
5.2.1 Mobile phones

Mobile Phone Ownership by Group



About 60% report access to a simple mobile phone. Adults are more likely to have access than youth, and people in the North more likely than people in the Extreme North. Muslim are more likely to have simple mobile phone access than Christians, and people who answered the survey in Fulfulde more likely to have access than those who answered in French, but people who answered in French or Fulfulde are *much* more likely to have access than people who answered in any other language.

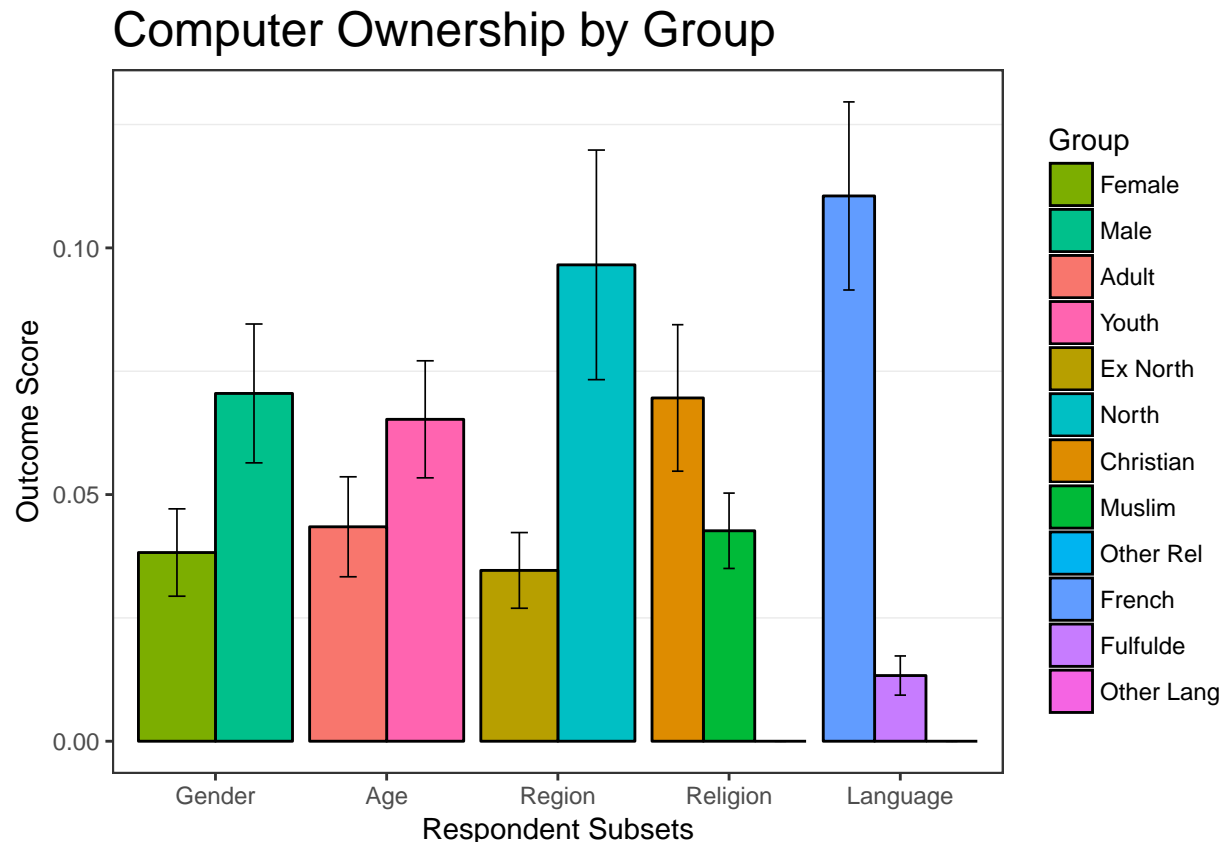
5.2.2 Smartphones



About 20% report access to a smartphone. Here we finally see age and gender differences, with males and young people much more likely to access smartphones than females or older people. This difference by gender is slightly complex, and is only seen among young people – adult males and females access smartphones at about the same rate.

People in the North, who also reported more access to electricity, are much more likely to access smartphones than people in the Extreme North. People who answered the survey in French are much more likely to access smartphones than people who answered in Fulfulde or another language. And Christians are more likely to access smartphones than Muslims, but only because Christians are more likely to be young – Christians and Muslims of the same age access smartphones at the same rate.

5.2.3 Computers and Tablets



Only 53 people surveyed have access to a computer (about 5% of respondents), so it's very difficult to analyze subsets. Based on the available data, people in the north are more likely than people in the extreme north to have computer access, and people who answered the survey in French are more likely to have access than people who answered in Fulfulde or another language. It also appears that males are more likely than females to have computer access, and that Muslims are more likely to access computers than Christians, but these smaller differences are not statistically significant.

Only 14 people in the survey have tablets, so we cannot say anything statistically about tablet ownership. Of those 14 people, more are men (10) than women (4), and more are in the North (10) than Extreme North (4). And more answered the survey in French (12) than answered in Fulfulde (2) or another language (0).

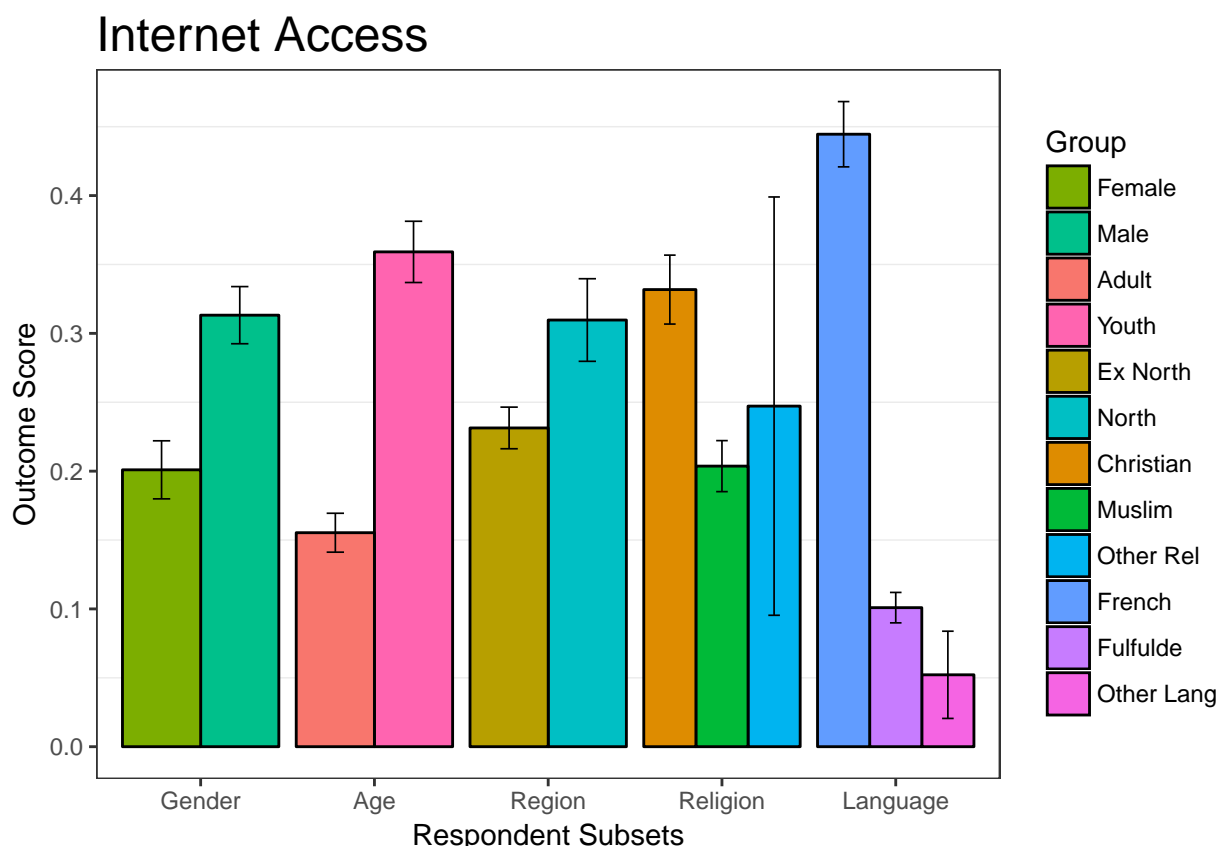
5.3 Mobile Service Providers

We asked respondents who at least accessed a mobile phone which mobile service providers (MSP) they used. The most popular MSPs are Orange, which 52% of the sample reported using, and MTN, which is used by about 46% of the sample. The only other MSP used by a large proportion of the sample is Nextel, used by about 28% of respondents. Only 2-3% of the sample used any other MSP.

5.4 OS

We asked respondents who access smartphones which operating system (OS) they used ¹⁴. The most popular OS by far is Android, used by about 16% of the sample and about 80% of smartphones users. Next is Blackberry, Windows, and Apple's iOS, but those are all used by about 1% or less of the population, and no more than 6% of the 203 smartphone users in the sample.

5.5 Internet Use



About 25% of the sample report access to the internet. Males, young people, northerners, and people who answered the surveys in French all access the internet much more than their comparison groups. The difference between Muslims and Christians is fairly large, and in the sample 33% of Christians compared to 20% of Muslims access the internet, but this is completely due to more Christians being younger, and young people accessing the internet more often. Muslims and Christians of the same age access the internet at the same rate.

If respondents used the internet, we also asked respondents on what device he/she accessed the internet, and in what location he/she used the internet. Accessing the internet on a mobile phone is by far the most popular method, and 16% of the sample/74% of internet users access the internet on their mobile device. The most popular locations for computer access are at home (6%, 27%) or at an internet cafe (4.8%, 21%). About 3% of the sample and 12%-13% of internet users access the internet either at work or on a friend or family member's computer/phone. Zero people used the internet on tablets.

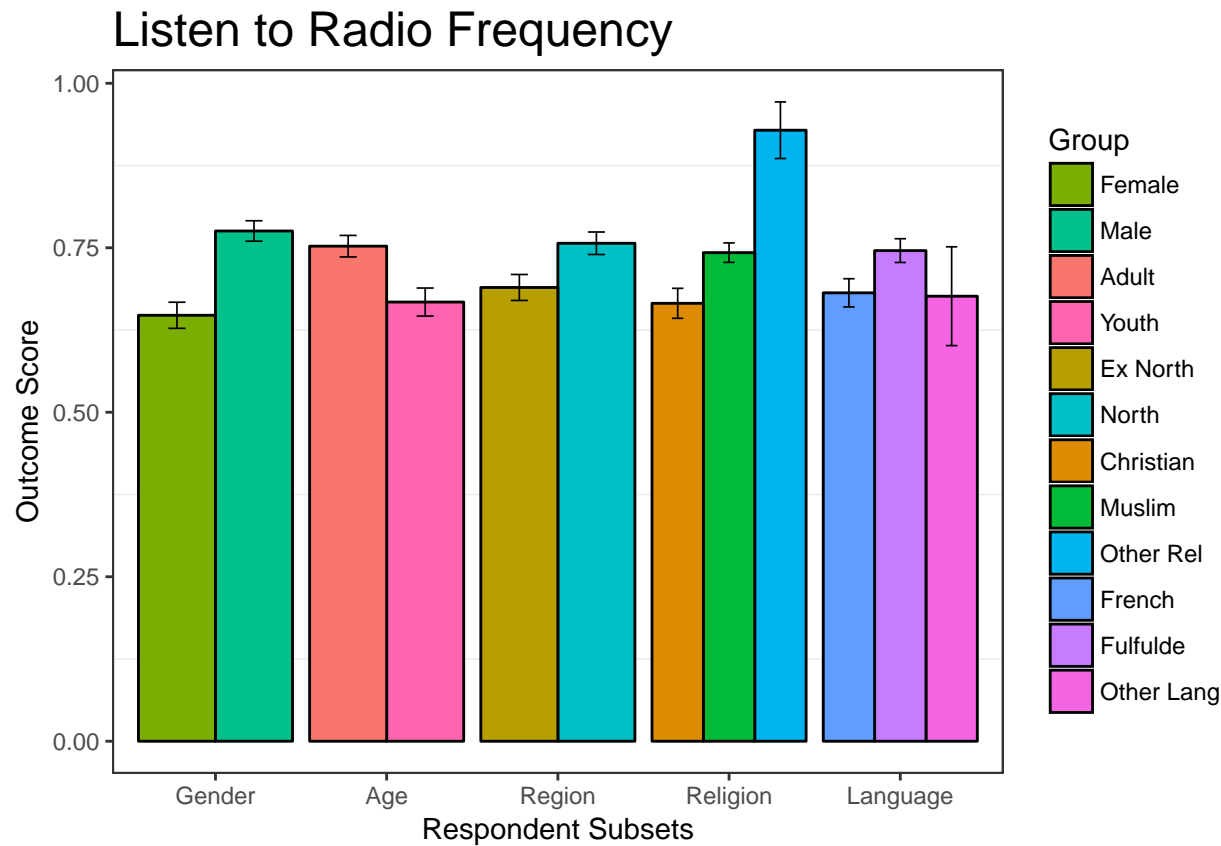
We also asked internet users how frequently he/she used the internet. The vast majority of internet users use

¹⁴We also asked tablet users about their OS, but the sample lacks enough tablet users to report any statistics about tablet operating systems.

it daily or weekly, and there are no differences by sub-population. If a respondent uses the internet, their gender, age, region, religion, or language do not affect how frequently they use the internet.

5.6 Media Frequency

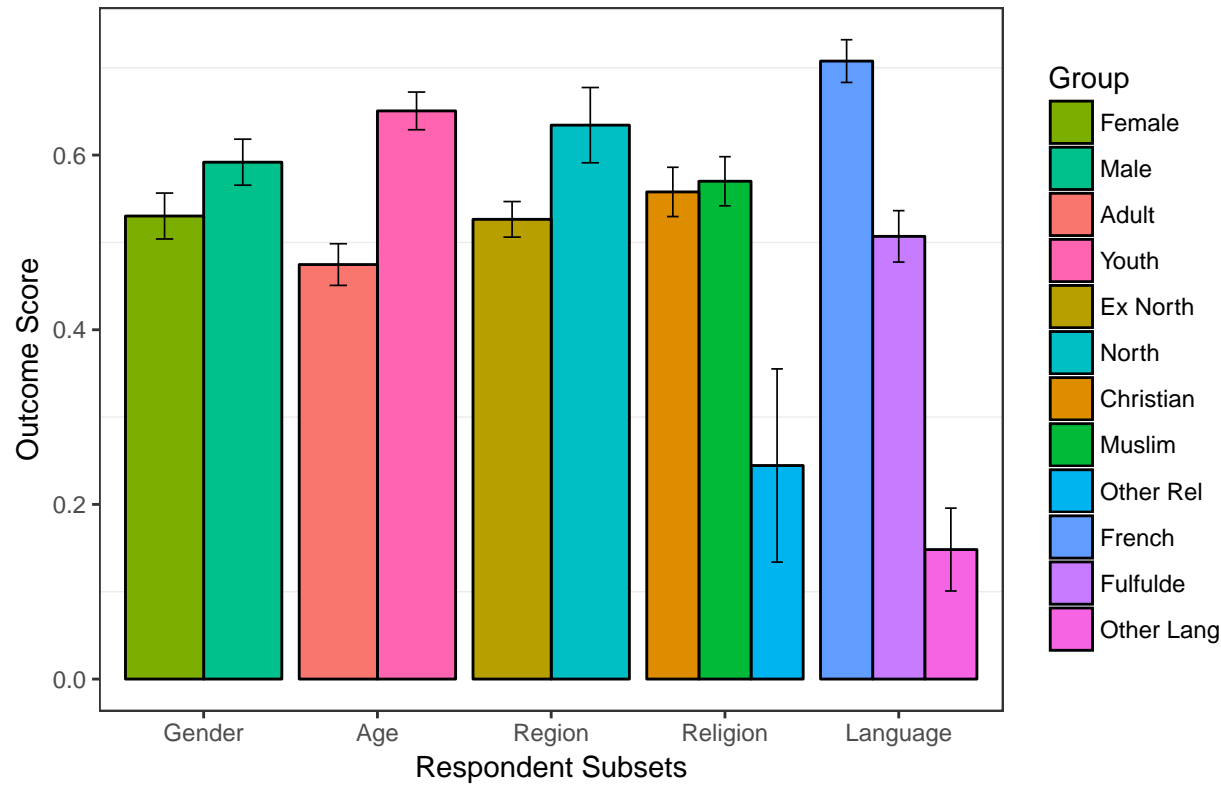
5.6.1 Radio



Radio listening is very common in northern Cameroon. On a 0-1 scale where 1 means the respondent listens every day and 0 means the respondent listens rarely or never, the average score is 0.71. Radio listening is bimodal – most respondents either listen very frequently or not at all. Almost half of respondents say they listen daily, and another quarter listen every week. But about 20% of respondents report that they rarely or never listen to the radio. Men listen with great frequency than women on average, and this is in part because a greater proportion of women simply do not listen to the radio. Youth also tend to listen to the radio less frequently than adults listen, and Muslims listen slightly more frequently than Christians.

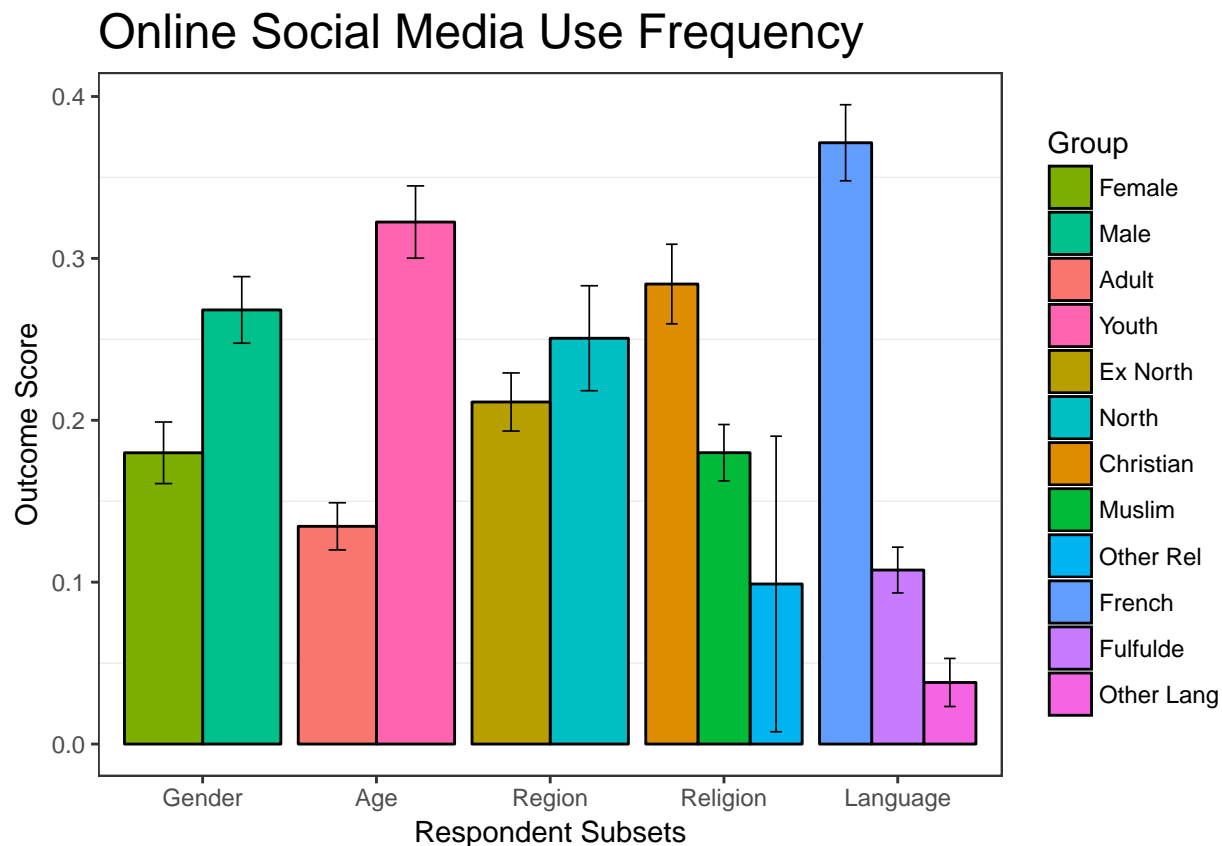
5.6.2 Television

Watch Television Frequency



Television viewing is fairly common in northern Cameroon, but people watch with less frequency than they listen to the radio, and far more people do not watch television at all. On a 0-1 scale, the average score is only 0.56, and roughly equal proportions watch daily (42%) as watch rarely/never (37%). Here men and women watch at about the same frequency, but youth watch television *far* more frequently than adults. Television is also watched more frequently in the North than in the Extreme North. Lastly, people who answered the survey in French watch more than people who answered in Fulfulde, who watch more than people who answered the survey in any other language.

5.6.3 Social Media



Social media use varies widely by age, gender, religion, and main language, though the average is fairly low. The average score on a 0-1 scale is 0.22, and over 60% of the sample rarely/never use social media. However, that low amount by no means describes the entire population. About 1/3 of youth use social media, 37% of people who answered the survey in French use social media, and almost 30% of Christians. Young, educated men use social media – in this survey, about 45% of young men who answered the survey in French use social media.

The dominant social media is Facebook. Nearly every respondent who uses social media reports using Facebook. The next most popular social media applications is WhatsApp (over 60% of social media users). Google+ and Imo are both used by under 20% of social media users, and other social media applications (YouTube, Skype, Instagram, Viber, Twitter, etc. . .) are used by no more than 5% of social media users.

5.6.4 Phone Functions

The survey also asks respondents about the frequency of their use of various phone functions. Specifically, making or receiving calls and SMS messages, downloading phone apps, and using Bluetooth. Almost everyone in the sample uses their phone to make or take phone calls everyday, and this does not depend on subgroup. Similarly, about 60% of the sample sent or received SMS messages, and 42% of the sample said they did this everyday, with the rest sending or receiving SMS messages weekly. On the opposite end, only 10% of the sample report downloading smartphone apps, and this also does not depend on subgroup¹⁵. About 1/3 of the sample reported using Bluetooth, and over 1/4 of the sample used Bluetooth at least once per week. Bluetooth use is high among youth, people who answered the survey in French, and among people in the Extreme North.

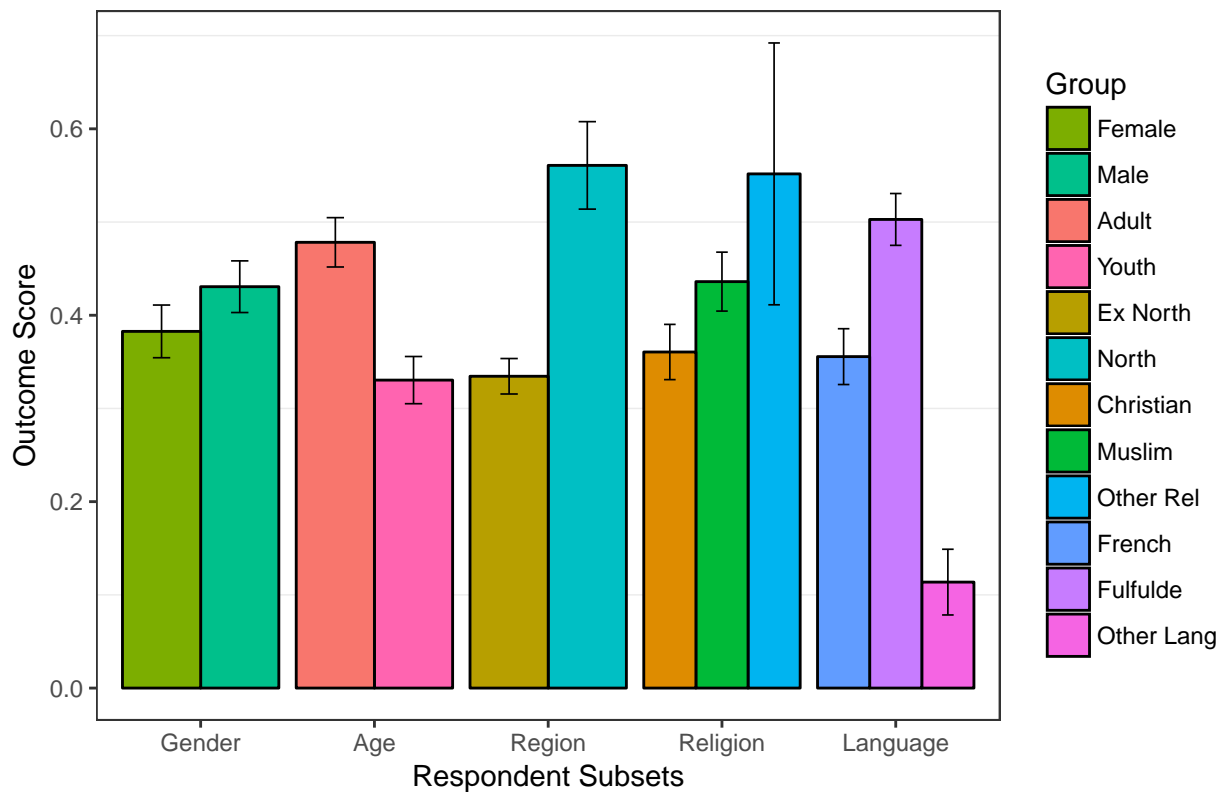
¹⁵This is because few respondents had smartphones.

6 Equal Access Programs

6.1 Radio

We asked respondents about their listening to: (1) Douniarou Derkeen, (2) Dabalaye, (3) Chabab-al-Haye, and (4) Dandal Kura. Dabalaye, Chabab-al-Haye, and Dandal Kura are all aired in minority languages spoken by very few people in this sample¹⁶, so we have very few listeners of those programs. Only nine people listened to Dabalaye; only three people listened to Chabab, and zero respondents listened to Dandal_Kura¹⁷. As a result, here we show only the viewership of Douniarou Derkeen, which is aired in Fulfulde, the language primarily spoken by a plurality of survey respondents (352 people, or about 35% of the sample). 296 respondents listened to Douniarou Derkeen – about 30% of the entire sample, and 40% of radio listeners. In areas where the program is aired (all towns except Kousseri and Mora), about 44% of people listen, and about 54% of radio users listen.

Listen to Douniarou Derkeen



Extrapolating these numbers to the 12-town target area area of about 2.2 million, we estimate that 653,890 people listen to Douniarou Derkeen. Douniarou Derkeen is especially popular in the Northern region, where 55% of radio listeners listen, compared to 34% in the Extreme North. By town, we estimate that 127,290 listen in Guider (44%), 107,893 in Garoua (31%), 88,510 in Maroua (21%), 87,687 in Yagoua (73%), 75,839 in Kaele (55%), 57,849 in Mokolo (18%), 44,252 in Maga (40%), 38,158 in Gashiga (76%), and 15,283 in Tchati-bali (37%). In the two areas where Douniarou Derkeen is not aired, 5/75 in Mora (6.7%) and 2/118 in Kousseri (1.7%) have still heard the program before.

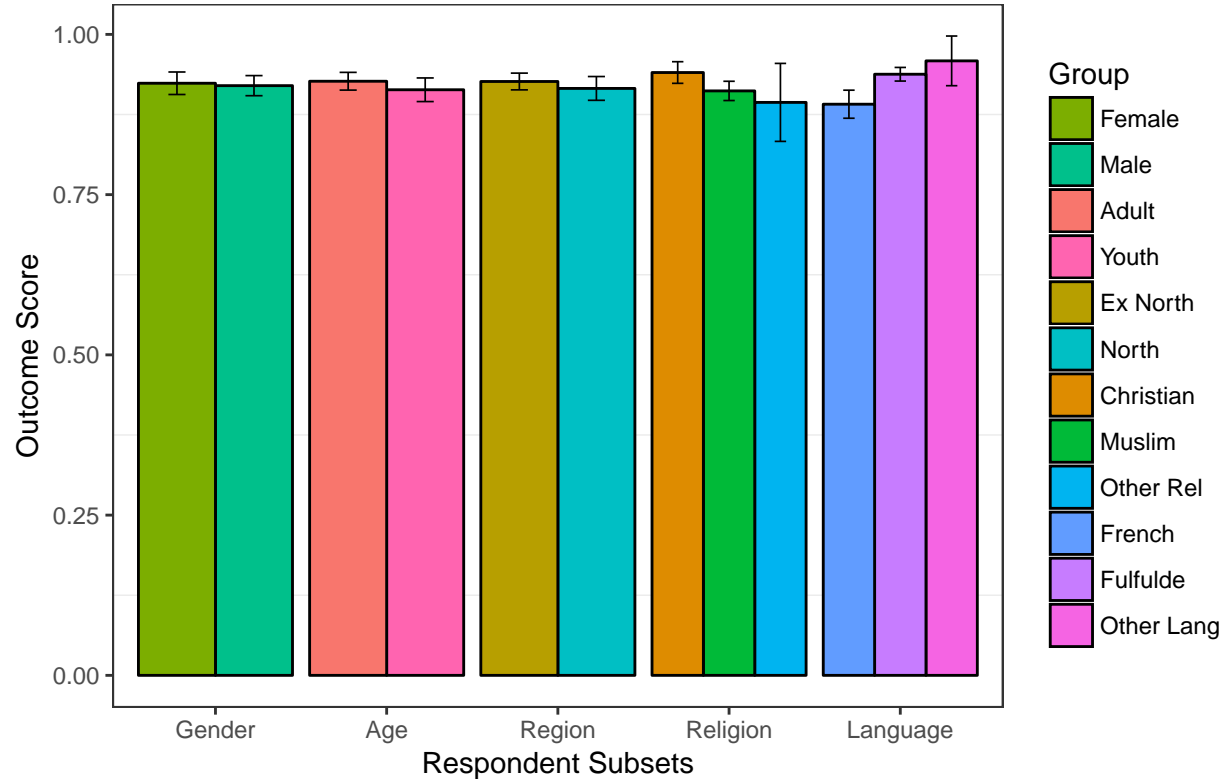
Young people also listen with less frequency than older people, with 32% of radio listeners under 30 listening

¹⁶Dabalaye and Chabab-al-Haye are aired in Arabic, spoken by 121 people in the areas airing the program. Dandal Kura is aired in Kanuri, spoken by only 17 people in this sample.

¹⁷Of the 73 Arabic speakers in Kousseri and Mora, 5 listen to Dabalaye and 1 listens to Chabab-al-Haye.

and about 47% of radio listeners 30 and over listening¹⁸. People who answered the survey in Fulfulde are also more likely to listen than people who answered in any other language, as expected. If we look at listenership by primary language spoken, Douniarou Derkeen has popularity even among people who primarily speak other languages. 34% of people who primarily speak Fulfulde listen, but a full 36% of people who speak Fulfulde as a secondary language listen, and about 8% of non-Fulfulde speakers have been exposed to the program. From people who primarily speak other languages, 27% of primarily French speakers listen to Douniarou Derkeen, 8% of Arabic-primary speakers listen, and 2 of the 9 Kanuri-primary speakers listen.

Listen to Douniarou Derkeen Frequency

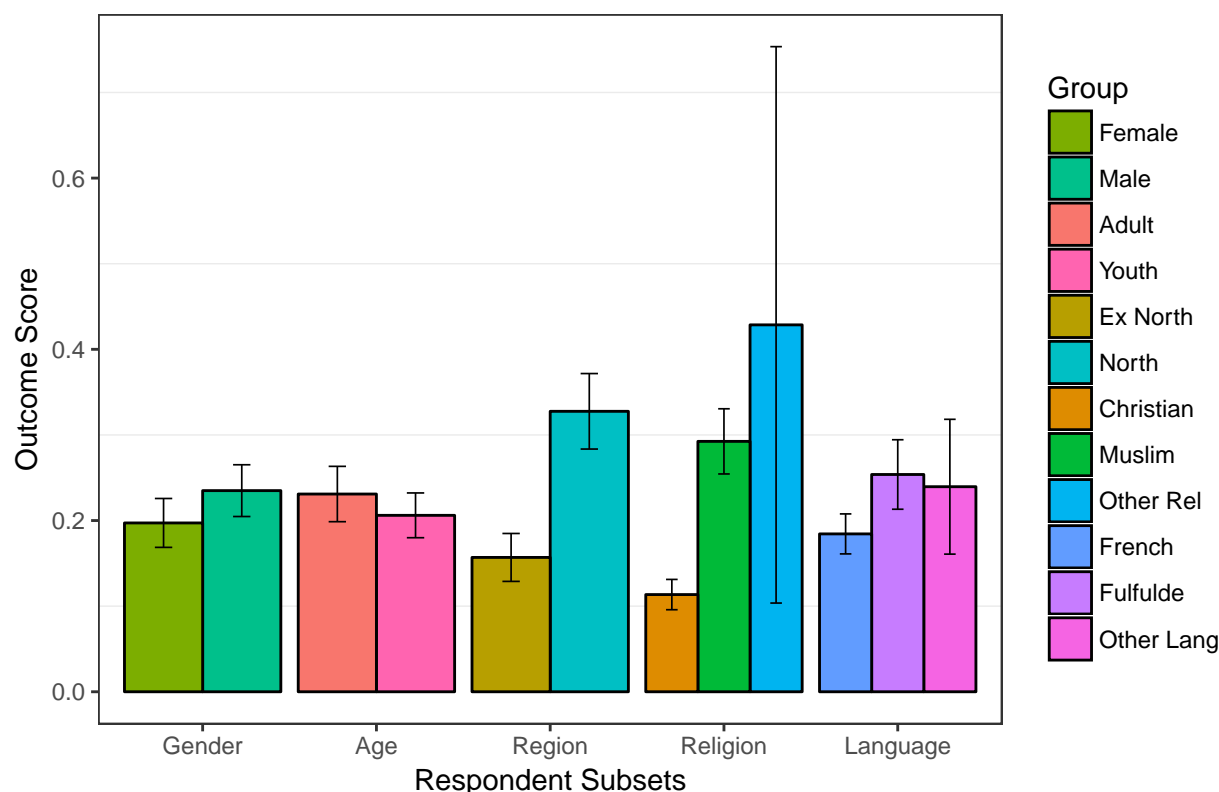


The people who listen to Douniarou Derkeen listen very frequently – 84% of listeners listen at least every week, and another 13% listen no less than once per month. This is identical for all sub-populations in the data. Most listeners listen to every broadcast, and that applies to men and women, youth and adults, Christians and Muslims, and all other subsets of the data.

¹⁸This is as a percentage of radio listeners. We see the same trend looking at the whole population, where 24% of young people listen compared to 35% of older people.

6.2 Arewa24

Watch Arewa24



Arewa24 is fairly popular in our sample, watched by 120 out of about 1,000 survey respondents, 12% of the sample and about 21% of television viewers. For the entire survey region of ~2.2 million people, we estimate that 265,091 watch Arewa24. The channel is much more likely to be watched by Muslims than Christians, and by people in the Northern region than the Extreme North, even controlling for religion (the North has a higher proportion of Muslims). By town, we estimate that 22,368 watch in Gashiga (45%), 69,180 in Guider (24%), 42,851 in Mora (20%), 21,257 in Yagoua (18%), 42,851 in Mokolo (14%), 45,315 in Garoua (13%), 23,429 in Maroua (5%), 4,840 in Kaele (4%), 3,688 in Maga (3%), and 1,115 in Kousseri (1%).

About 54% of Hausa speakers watch, but 19% of people who did not report speaking Hausa also watch, which could indicate one of 3 things. First, and most likely, many people who speak Hausa did not report Hausa in the open-ended question asking which languages they spoke. Second, it could indicate communal viewing such that many non-Hausa speakers are exposed to the show while in a group with Hausa speakers. And third, it could indicate an acquiescence bias wherein about 19% of the sample says yes to questions when the answer is actually no¹⁹.

The survey also asks about viewership of specific Arewa24 programs. The most popular individual show is Tauraruwa, viewed by 4.5% of the sample overall. Every show is a bit more popular in the North than Extreme North, but Tauraruwa is *much* more popular in the North (11%) than in the Extreme North (2%). The next most popular is Hausa Hip Hop, watched by 4% of the respondents overall. The next most popular are Dadin Kowa and Gari Ya Waye, each viewed by about 3% of the sample. After that Alawar Yara, Matasa360, Waiwaye, and Kundin Kannywood, are all viewed by between 1%-2% of the respondents. In addition, about 1% of respondents said they watched some other show on Arewa24.

¹⁹Acquiescence Bias, also called Agreement Bias, is a commonly observed bias in human communication and affects most forms of data collection, including surveys, interviews, and focus groups.

7 Conclusion

This report summarized the findings of a 998 person survey in the North and Extreme North regions of Cameroon.

Demographically, the largest single ethnic group in the regions is the Fulani. Fulfulde, the Fulani language, is spoken by 80% of respondents and by over 1/3 of respondents as their primary language. The main language of non-Fulfulde speakers appears to be Arabic in general and French for people with secondary school or University educations..

Christians and Muslims both display high tolerance for other religious and ethnic groups. Acceptance of violence is very low except for vigilante violence against criminals. Political matters, especially corruption, and perceptions of violence and insecurity, seem to be the primary problems in these communities. In the Extreme North this could be driven by lower socio-economic status, and in the North this could be fed by a lack of perceived citizen engagement, political transparency, and knowledge of legal recourse.

In terms of media, radio is the dominant media form in these areas, but television and the internet are very popular among young people. Equal Access radio program Douniarou Derkeen is quite popular, as is the Arewa24 television channel.

8 Caveats

This survey possesses some indicators of Agreement Bias. Many of the questions do not generate variation and almost all respondents agree or say yes, and so we cannot differentiate between “agreement” as an attitude vs. “agreement” as a habitual survey response. This is a call for reverse coding, survey experiments, and maybe for more professional enumerators, since mass Agreement Bias could indicate that the data quality is below average.

It’s also possible that the past radio programs of PDEV worked extremely well and we actually observe a “ceiling effect”, wherein people already exhibit very positive attitudes, making it difficult to make these attitudes better²⁰. In that case, the goal of the Cameroon Peace Promotion Project should be the maintenance of positive attitudes, rather than persuasion of people with negative attitudes.

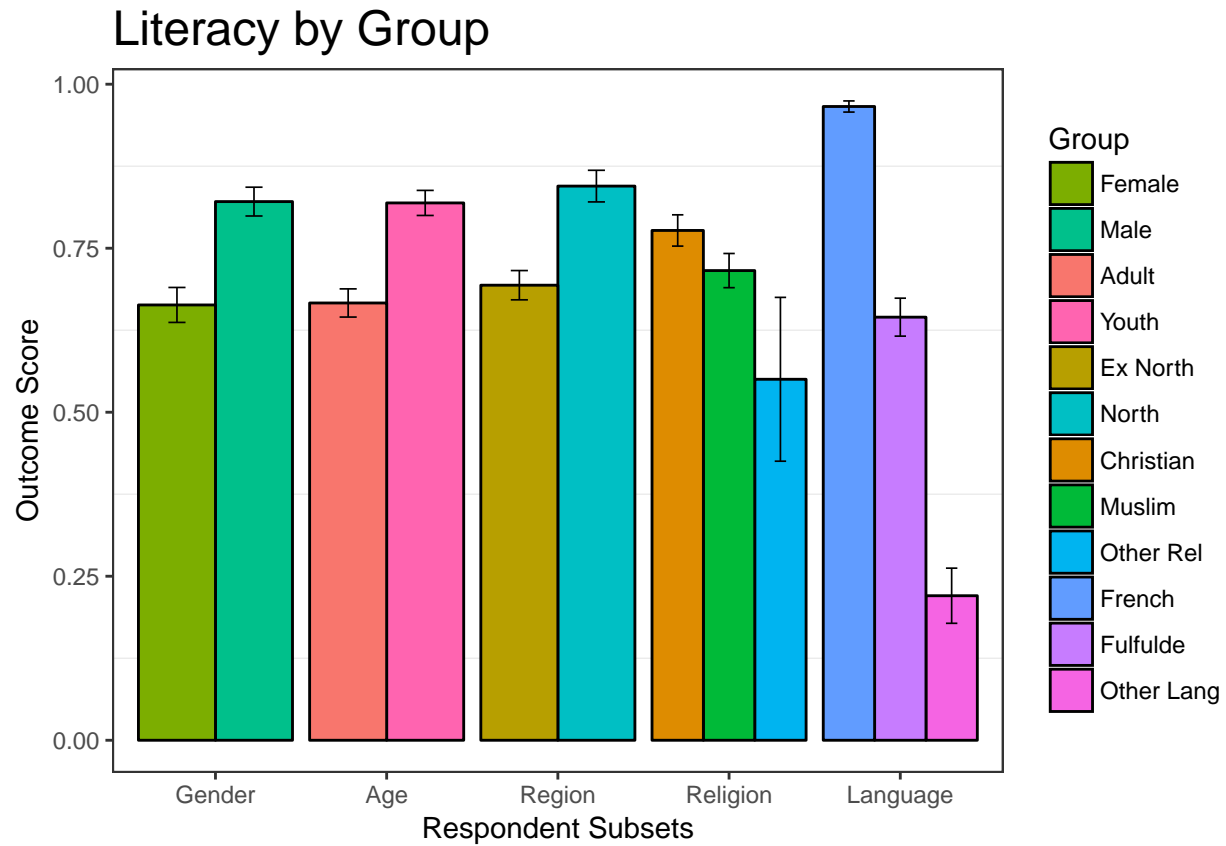
9 Appendices

9.1 Appendix 1: Randomization Exp

We attempted a randomization experiment to measure attitudes towards people from other religions. In the randomization experiment, we asked respondents if they would live in a community that was **5%/25%/50%/75%** members of a different religion. The percentage is randomized, and we hypothesized that fewer people would be willing to live in a community as the percentage of outgroup members increased. However, the randomization experiment did not work. Virtually everyone said yes in all conditions. This either indicates unprecedented levels of religious tolerance, the Hawthorne Effect wherein subjects learn the correct response to survey questions, or enumerator error in administering the survey experiment.

²⁰Another possibility is that the respondents *express* but do not *hold* positive attitudes. Instead of being more tolerant due to PDEV programs, they may instead have learned how to respond to surveys like this.

9.2 Appendix 2: Other Plots



10 References

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