## Problem Set 1

- 1. In a paragraph, describe the responses to the racespeech question. Your paragraph should include:
- The overall proportion of respondents who agree and disagree
- The proportion of respondents in each race/hisp category who agree and disagree
- The proportion of respondents in each degree category who agree and disagree

```
# Proportion table
pander(round(prop.table(table(ps1$racespeech)),3))
```

Allowed	Not allowed
0.617	0.383

```
# Proportion table with row proportions
pander(round(prop.table(table(ps1$racehisp, ps1$racespeech),1),3))
```

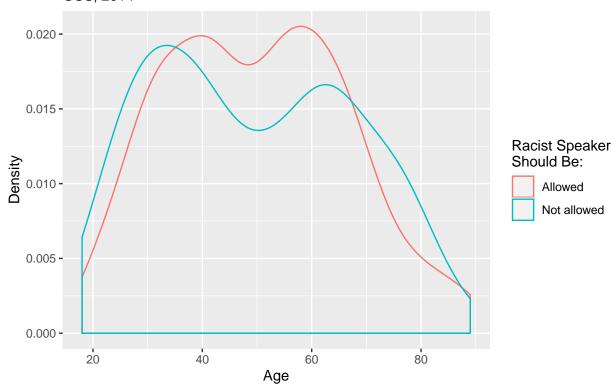
	Allowed	Not allowed
Black	0.538	0.462
Hispanic	0.444	0.556
$\mathbf{Other}$	0.424	0.576
$\mathbf{White}$	0.684	0.316

	Allowed	Not allowed
Less Than HS	0.437	0.563
HS Diploma	0.588	0.412
Some College	0.652	0.348
College Degree	0.708	0.292
$\operatorname{Grad}/\operatorname{Prof}\operatorname{Degree}$	0.755	0.245

2. In a figure, describe how the age distribution differs for respondents who do and do not agree with the question of whether a racist should be allowed to speak. Interpret your figure in words, and offer a possible sociological explanation for the results.



## Support for Racist Speech by Age GSS. 2014



3. In a sentence or two, describe male-female differences in rally attendance. What is an additional variable you would want to have in order to explain the relationship between these variables?

	In Past Year	Before Last Year	No But I Might	No And I Will Not
Female Male	$0.084 \\ 0.111$	0.199 0.219	$0.373 \\ 0.413$	$0.344 \\ 0.257$

4. In a few sentences, describe class differences in demonstration participation. What is an additional variable you would want to have in order to explain the relationship between these variables?

```
"No But I Might", "No And I Will Not"))

# Proportion table with row proportions
pander(round(prop.table(table(ps1$class, ps1$joindem),1),3))
```

Table 5: Table continues below

	In Past Year	Before Last Year	No But I Might
Lower	0.121	0.155	0.293
Working	0.045	0.122	0.451
$\mathbf{Middle}$	0.044	0.225	0.408
${f Upper}$	0.045	0.318	0.182

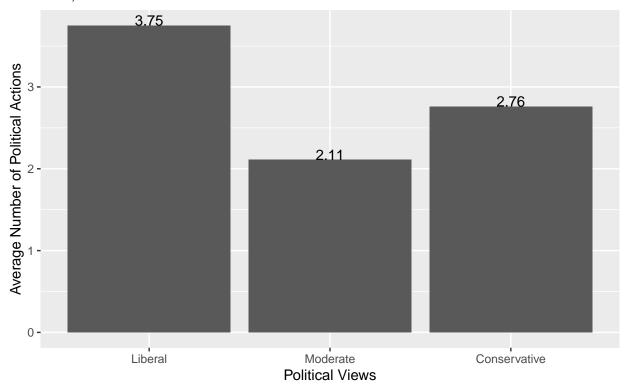
	No And I Will Not		
Lower	0.431		
Working	0.383		
Middle	0.323		
${f Upper}$	0.455		

```
# If you do not want a long table broken into two...
panderOptions('table.split.table', Inf)
pander(round(prop.table(table(ps1$class, ps1$joindem),1),3))
```

	In Past Year	Before Last Year	No But I Might	No And I Will Not
Lower	0.121	0.155	0.293	0.431
Working	0.045	0.122	0.451	0.383
$\mathbf{Middle}$	0.044	0.225	0.408	0.323
${f Upper}$	0.045	0.318	0.182	0.455

5. Collapse the seven categories of political views into three categories: any liberal, moderate, any conservative. Create a figure showing how the average number of political actions varies across the three categories of political views. Interpret this figure in a few sentences.

## Average Number of Political Actions by Political Views GSS, 2014



6. In a sentence or two, describe the correlation between years of education and number of political actions. (No figure required here.)

```
cor(ps1$num_action, ps1$educ)
```

## [1] 0.4061416