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Internet Privacy Poll (OPTIONAL)

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IMPORTANT NOTE: This problem is optional, and will not count towards your grade. We have created this problem to give you extra practice with the topics covered in this unit.

Internet privacy poll (OPTIONAL)

Internet privacy has gained widespread attention in recent years. To measure the degree to which people are concerned about hot-button issues like Internet privacy, social scientists conduct polls in which they interview a large number of people about the topic. In this assignment, we will analyze data from a July 2013 Pew Internet and American Life Project poll on Internet anonymity and privacy, which involved interviews across the United States. While the full polling data can be found here, we will use a more limited version of the results, available in <u>AnonymityPoll.csv</u>. The dataset has the following fields (all Internet use-related fields were only collected from interviewees who either use the Internet or have a smartphone):

- **Internet.Use**: A binary variable indicating if the interviewee uses the Internet, at least occasionally (equals 1 if the interviewee uses the Internet, and equals 0 if the interviewee does not use the Internet).
- **Smartphone**: A binary variable indicating if the interviewee has a smartphone (equals 1 if they do have a smartphone, and equals 0 if they don't have a smartphone).
- **Sex**: Male or Female.
- Age: Age in years.
- **State**: State of residence of the interviewee.
- **Region**: Census region of the interviewee (Midwest, Northeast, South, or West).

- **Conservativeness**: Self-described level of conservativeness of interviewee, from 1 (very liberal) to 5 (very conservative).
- **Info.On.Internet**: Number of the following items this interviewee believes to be available on the Internet for others to see: (1) Their email address; (2) Their home address; (3) Their home phone number; (4) Their cell phone number; (5) The employer/company they work for; (6) Their political party or political affiliation; (7) Things they've written that have their name on it; (8) A photo of them; (9) A video of them; (10) Which groups or organizations they belong to; and (11) Their birth date.
- **Worry.About.Info**: A binary variable indicating if the interviewee worries about how much information is available about them on the Internet (equals 1 if they worry, and equals 0 if they don't worry).
- **Privacy.Importance**: A score from 0 (privacy is not too important) to 100 (privacy is very important), which combines the degree to which they find privacy important in the following: (1) The websites they browse; (2) Knowledge of the place they are located when they use the Internet; (3) The content and files they download; (4) The times of day they are online; (5) The applications or programs they use; (6) The searches they perform; (7) The content of their email; (8) The people they exchange email with; and (9) The content of their online chats or hangouts with others.
- **Anonymity.Possible**: A binary variable indicating if the interviewee thinks it's possible to use the Internet anonymously, meaning in such a way that online activities can't be traced back to them (equals 1 if he/she believes you can, and equals 0 if he/she believes you can't).
- Tried.Masking.Identity: A binary variable indicating if the interviewee has ever tried to mask his/her identity when using the Internet (equals 1 if he/she has tried to mask his/her identity, and equals 0 if he/she has not tried to mask his/her identity).
- **Privacy.Laws.Effective**: A binary variable indicating if the interviewee believes United States law provides reasonable privacy protection for Internet users (equals 1 if he/she believes it does, and equals 0 if he/she believes it doesn't).

Problem 1.1 - Loading and Summarizing the Dataset

0 points possible (ungraded)

Using read.csv(), load the dataset from AnonymityPoll.csv into a data frame called poll and summarize it with the summary() and str() functions.

How many people participated in the poll?

2017	Internet Privacy Poll (OPTIONAL) Assignment 1 15.071x Courseware edX
	Answer: 1002
	of people who took the poll is equal to the number of rows of the data fra otained with nrow(poll) or from the output of str(poll).
Submit	You have used 0 of 3 attempts
1 Answers	are displayed within the problem
Problem 1	.2 - Loading and Summarizing the Dataset
and summary should sum to	he breakdown of the number of people with smartphones using the table (()) commands on the Smartphone variable. (HINT: These three numbers o 1002.)
How many inf	terviewees responded that they use a smartphone?
	Answer: 487
How many int	terviewees responded that they don't use a smartphone?
	Answer: 472
-	terviewees did not respond to the question, resulting in a missing value, on mary() output?
	Answer: 43
Explanation	
smartphone a	put of table(poll\$Smartphone), we can read that 487 interviewees use a and 472 do not. From the summary(poll\$Smartphone) output, we see tha ad missing values. As a sanity check, 487+472+43=1002, the total number

interviewees.

Submit

You have used 0 of 3 attempts

1 Answers are displayed within the problem

Problem 1.3 - Loading and Summarizing the Dataset

0 points possible (ungraded)

By using the table() function on two variables, we can tell how they are related. To use the table() function on two variables, just put the two variable names inside the parentheses, separated by a comma (don't forget to add poll\$ before each variable name). In the output, the possible values of the first variable will be listed in the left, and the possible values of the second variable will be listed on the top. Each entry of the table counts the number of observations in the data set that have the value of the first value in that row, and the value of the second variable in that column. For example, suppose we want to create a table of the variables "Sex" and "Region". We would type

table(poll\$Sex, poll\$Region)

in our R Console, and we would get as output

Midwest Northeast South West

Female 123 90 176 116

Male 116 76 183 122

This table tells us that we have 123 people in our dataset who are female and from the Midwest, 116 people in our dataset who are male and from the Midwest, 90 people in our dataset who are female and from the Northeast, etc.

You might find it helpful to use the table() function to answer the following questions:

Which of the following are states in the Midwest census region? (Select all that apply.)

Colorado	
☐ Kansas ✔	

□ Kentucky
☐ Missouri ✔
□ Ohio ✔
Pennsylvania

Which was the state in the South census region with the largest number of interviewees?

Answer: Texas Select an option ▼

Explanation

From table(poll\$State, poll\$Region), we can identify the census region of a particular state by looking at the region associated with all its interviewees. We can read that Colorado is in the West region, Kentucky is in the South region, Pennsylvania is in the Northeast region, but the other three states are all in the Midwest region. From the same chart we can read that Texas is the state in the South region with the largest number of interviewees, 72.

Another way to approach these problems would have been to subset the data frame and then use table on the limited data frame. For instance, to find which states are in the Midwest region we could have used:

MidwestInterviewees = subset(poll, Region=="Midwest")

table(MidwestInterviewees\$State)

and to find the number of interviewees from each South region state we could have used: SouthInterviewees = subset(poll, Region=="South")

table(SouthInterviewees\$State)

Submit

You have used 0 of 2 attempts

1 Answers are displayed within the problem

Problem 2.1 - Internet and Smartphone Users

0 points possible (ungraded)

As mentioned in the introduction to this problem, many of the response variables (Info.On.Internet, Worry.About.Info, Privacy.Importance, Anonymity.Possible, and Tried.Masking.Identity) were not collected if an interviewee does not use the Internet or a smartphone, meaning the variables will have missing values for these interviewees.

How many interviewees reported not having used the Internet and not having used a smartphone?
Answer: 186
How many interviewees reported having used the Internet and having used a smartphone?
Answer: 470
How many interviewees reported having used the Internet but not having used a smartphone?
Answer: 285
How many interviewees reported having used a smartphone but not having used the Internet?
Answer: 17
Explanation These four values can be read from table(poll\$Internet.Use, poll\$Smartphone)
Submit You have used 0 of 3 attempts
Answers are displayed within the problem

Problem 2.2 - Internet and Smartphone Users

0 points possible (ungraded) How many interviewees have a missing value for the	
Answer: 1	
How many interviewees have a missing value for the	eir smartphone use?
Answer: 43	
Explanation The number of missing values can be read from sur	nmary(poll)
Submit You have used 0 of 3 attempts	
Answers are displayed within the problem	
Problem 2.3 - Internet and Smartphon	e Users
0 points possible (ungraded)	
Use the subset function to obtain a data frame calle interviewees who reported Internet use or who reported the & symbol to use two criteria to make a sub observations that have a certain value in one variab used in place of the & symbol. This is also called a lo	orted smartphone use. In lecture, we set of the data. To only take le or the other, the character can be
How many interviewees are in the new data frame?	
Answer: 792	
Explanation The new data frame can be constructed with: limited = subset(poll, Internet.Use == 1 Smartphor The number of rows can be computed with nrow(lin	ne == 1)
	nited).

1 Answers are displayed within the problem

Important: For all remaining questions in this assignment please use the limited data frame you created in Problem 2.3.

Problem 3.1 - Summarizing Opinions about Internet Privacy

0 points possible (ungraded)

Which variables have missing values in the limited data frame? (Select all that apply.)

□ Internet.Use
☐ Smartphone ✔
□ Sex
□ Age ✔
□ State
Region
☐ Conservativeness ✔
☐ Info.On.Internet
☐ Worry.About.Info ✔
☐ Privacy.Importance ✔
☐ Anonymity.Possible ✔

/20	17 Internet Privacy Poll (OPTIONAL) Assignment 1 15.071x Courseware edX
	□ Tried.Masking.Identity ✔
	□ Privacy.Laws.Effective ✔
	Explanation You can read the number of missing values for each variable from summary(limited)

Submit

You have used 0 of 2 attempts

1 Answers are displayed within the problem

Problem 3.2 - Summarizing Opinions about Internet Privacy

0 points possible (ungraded)

What is the average number of pieces of personal information on the Internet, according to the Info.On.Internet variable?

Answer: 3.795

Explanation

This can be obtained with mean(limited\$Info.On.Internet) or summary(limited\$Info.On.Internet)

Submit

You have used 0 of 3 attempts

1 Answers are displayed within the problem

Problem 3.3 - Summarizing Opinions about Internet Privacy

0 points possible (ungraded)

How many interviewees reported a value of 0 for Info.On.Internet?

	Internet Privacy Poll (OPTIONAL) Assignment 1 15.071x Courseware edX
	Answer: 105
How many ir	nterviewees reported the maximum value of 11 for Info.On.Internet?
	Answer: 8
Explanation These can be	e read from table(limited\$Info.On.Internet)
Submit	You have used 0 of 3 attempts
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• Answer	s are displayed within the problem
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i i obieiii	3.4 - Summarizing Opinions about Internet Privacy
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1 Answers are displayed within the problem

Problem 3.5 - Summarizing Opinions about Internet Privacy

0 points possible (ungraded)

What proportion of interviewees who answered the Anonymity. Possible question think it is possible to be completely anonymous on the Internet?

Answer: 0.3692

Explanation

From table(limited\$Anonymity.Possible), 278 respondents said anonymity is possible and 475 said it is not. Therefore, the desired proportion is 278/(278+475)=0.3692. This can also be read from summary(limited\$Anonymity.Possible).

Submit

You have used 0 of 3 attempts

1 Answers are displayed within the problem

Problem 3.6 - Summarizing Opinions about Internet Privacy

0 points possible (ungraded)

What proportion of interviewees who answered the Tried. Masking. Identity question have tried masking their identity on the Internet?

Answer: 0.1632653

Explanation

This can be computed with the command table(limited\$Tried.Masking.Identity). The output tells us that of all the respondents who answered the Tried. Masking. Identity question, 128 out of (128+656) have tried masking their identity on the internet.

Submit

You have used 0 of 3 attempts

1 Answers are displayed within the problem

Problem 3.7 - Summarizing Opinions about Internet Privacy

0 points possible (ungraded)

What proportion of interviewees who answered the Privacy. Laws. Effective question find United States privacy laws effective?

Answer: 0.2558459

Explanation

We can find this number with the command table(limited\$Privacy.Laws.Effective). The output tells us that 186 out of (186+541) people who answered the Privacy. Laws. Effective question find US privacy laws effective.

Submit

You have used 0 of 3 attempts

1 Answers are displayed within the problem

Problem 4.1 - Relating Demographics to Polling Results

0 points possible (ungraded)

Often, we are interested in whether certain characteristics of interviewees (e.g. their age or political opinions) affect their opinions on the topic of the poll (in this case, opinions on privacy). In this section, we will investigate the relationship between the characteristics Age and Smartphone and outcome variables Info.On.Internet and Tried.Masking.Identity, again using the limited data frame we built in an earlier section of this problem.

Build a histogram of the age of interviewees. What is the best represented age group in the population?

Peo	ple aged	about 20	years	old
-----	----------	----------	-------	-----

People aged about 40 years old

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0	People aged about 60 years old ✔
0	People aged about 80 years old
•	lanation n hist(limited\$Age), we see the histogram peaks at around 60 years old.
S	ubmit You have used 0 of 1 attempt
•	Answers are displayed within the problem
Pro	blem 4.2 - Relating Demographics to Polling Results
0 poi	ints possible (ungraded)
obse agai How	Age and Info.On.Internet are variables that take on many values, so a good way to erve their relationship is through a graph. We learned in lecture that we can plot Age nst Info.On.Internet with the command plot(limited\$Age, limited\$Info.On.Internet). vever, because Info.On.Internet takes on a small number of values, multiple points can blotted in exactly the same location on this graph.
varia larga limit	at is the largest number of interviewees that have exactly the same value in their Age able AND the same value in their Info.On.Internet variable? In other words, what is the est number of overlapping points in the plot plot(limited\$Age, ted\$Info.On.Internet)? (HINT: Use the table function to compare the number of ervations with different values of Age and Info.On.Internet.)
	,
	Answer: 6
By rether	lanation eviewing the output of table(limited\$Age, limited\$Info.On.Internet), we can see that e are 6 interviewees with age 53 and Info.On.Internet value 0, with age 60 and On.Internet value 0, and with age 60 and Info.On.Internet value 1. ore efficient way to have obtained the maximum number would have been to run

You have used 0 of 3 attempts

Submit

1 Answers are displayed within the problem

Problem 4.3 - Relating Demographics to Polling Results

0 points possible (ungraded)

To avoid points covering each other up, we can use the jitter() function on the values we pass to the plot function. Experimenting with the command jitter(c(1, 2, 3)), what appears to be the functionality of the jitter command?

- jitter randomly reorders the values passed to it, and two runs will yield the same result
- jitter randomly reorders the values passed to it, and two runs will yield different results
- itter adds or subtracts a small amount of random noise to the values passed to it, and two runs will yield the same result
- jitter adds or subtracts a small amount of random noise to the values passed to it, and two runs will yield different results 🗸

Explanation

By running the command jitter(c(1, 2, 3)) multiple times, we can see that the jitter function randomly adds or subtracts a small value from each number, and two runs will yield different results.

Submit

You have used 0 of 1 attempt

1 Answers are displayed within the problem

Problem 4.4 - Relating Demographics to Polling Results

0 points possible (ungraded)

Now, plot Age against Info.On.Internet with plot(jitter(limited\$Age), jitter(limited\$Info.On.Internet)). What relationship to you observe between Age and Info.On.Internet?

- Older age seems strongly associated with a larger value for Info.On.Internet
- Older age seems moderately associated with a larger value for Info.On.Internet
- Older age does not seem associated with a change in the value of Info.On.Internet
- Older age seems moderately associated with a smaller value for Info.On.Internet
- Older age seems strongly associated with a smaller value for Info.On.Internet

Explanation

For younger people aged 18-30, the average value of Info.On.Internet appears to be roughly 5, while most peopled aged 60 and older have a value less than 5. Therefore, older age appears to be associated with a smaller value of Info.On.Internet, but from the spread of dots on the image, it's clear the association is not particularly strong.

Submit

You have used 0 of 2 attempts

1 Answers are displayed within the problem

Problem 4.5 - Relating Demographics to Polling Results

0 points possible (ungraded)

Use the tapply() function to obtain the summary of the Info.On.Internet value, broken down by whether an interviewee is a smartphone user.

What is the average Info.On.Internet value for smartphone users?

2017	Internet Privacy Poll (OPTIONAL) Assignment 1 15.071x Courseware edX
	Answer: 4.368
What is the	average Info.On.Internet value for non-smartphone users?
	Answer: 2.923
Explanation	
	application of tapply here is:
	ed\$Info.On.Internet, limited\$Smartphone, summary) I the average for non-smartphone users from the summary output labeled
	he average for smartphone users from the summary output labeled with $oldsymbol{1}$.
Submit	You have used 0 of 3 attempts
Λ Δηςωρ	rs are displayed within the problem
1 Answe	rs are displayed within the problem
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Problem	4.6 - Relating Demographics to Polling Results
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Problem 0 points possi	4.6 - Relating Demographics to Polling Results Sible (ungraded) E tapply to break down the Tried.Masking.Identity variable for smartphone a
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tapply(limited\$Tried.Masking.Identity, limited\$Smartphone, table)

Among smartphone users, 93 tried masking their identity and 390 did not, resulting in proportion 93/(93+390)=0.1925. Among non-smartphone users, 33 tried masking their identity and 248 did not, resulting in proportion 33/(33+248)=0.1174. This could have also been read from tapply(limited\$Tried.Masking.Identity, limited\$Smartphone, summary).

Next week, we will begin to more formally characterize how an outcome variable like Info.On.Internet can be predicted with a variable like Age or Smartphone.

Submit

You have used 0 of 3 attempts

1 Answers are displayed within the problem

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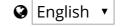
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