

ACTIVITY 5

PART A – November 6, 2017

Week 7, Day 1

Due: Wednesday, November 29

Instructions: A digital copy of the final version of Activity #5 is due on Wednesday, November 29 (Week 10). You will be given the activity in parts, but it is your responsibility to keep track of all questions on one master document for each respective activity.

- (1) Draw a scatterplot with the likelihood of voting in 2016 (willvote2016) as the independent variable and the frequency of political participation (actionindex) as the dependent variable. Is this a positive relationship or a negative relationship? Include the scatterplot on your document.
- (2) Draw a scatterplot with the age of the participant (info_age) as the independent variable and the feelings about Hillary Clinton (score_clinton) as the dependent variable. Is this a positive or negative relationship? Include the scatterplot on your document.
- (3) Draw a scatterplot with the age of the participant (info_age) as the independent variable and the feelings about Barack Obama (score_obama) as the dependent variable. Is this a positive or negative relationship? Include the scatterplot on your document.

Using the midterm dataset, evaluate the following hypotheses using a Pearson correlation test.

- (4) Evaluate the hypothesis: A respondent's political knowledge score (knowledgescore) is positively correlated with a respondent's white guilt score (whiteguiltscore).
 - (a) Report the Pearson correlation value for this hypothesis.
 - (b) As a respondent's political knowledge score increases, what happens to their white guilt score?
 - (c) Is this a weak, moderate, or strong relationship?
 - (d) What is the probability that this relationship is due to chance?
 - (e) Do we accept or reject the hypothesis?
- (5) Evaluate the hypothesis: A respondent's age (info_age) is positively correlated with a respondent's feelings about Muslims (score_muslim).
 - (a) Report the Pearson correlation value for this hypothesis.
 - (b) As a respondent's age increases, what happens to their feelings about Muslims?
 - (c) Is this a weak, moderate, or strong relationship?
 - (d) What is the probability that this relationship is due to chance?
 - (e) Do we accept or reject the hypothesis?

- (6) Evaluate the hypothesis: A respondent's feelings about blacks (score_black) are negatively correlated with their feelings about police (score_police).
- Report the Pearson correlation value for this hypothesis.
 - As a respondent's feels more warmly towards blacks, what happens to their feelings about police?
 - Is this a weak, moderate, or strong relationship?
 - What is the probability that this relationship is due to chance?
 - Do we accept or reject the hypothesis?
- (7) Evaluate the hypothesis: A respondent's feelings about gays/lesbians (score_gay) are positively correlated with feelings about transgender people (score_trans).
- Report the Pearson correlation value for this hypothesis.
 - As a respondent's feels more warmly towards gays/lesbians, what happens to their feelings about transgender people?
 - Is this a weak, moderate, or strong relationship?
 - What is the probability that this relationship is due to chance?
 - Do we accept or reject the hypothesis?
- (8) Evaluate the hypothesis: A respondent's animus toward other races (resentmentscore) is positively correlated with the likelihood that they would vote in the 2016 presidential election (willvote2016).
- Report the Pearson correlation value for this hypothesis.
 - As a respondent's animus toward other races increases, what happens to their chances of voting in 2016?
 - Is this a weak, moderate, or strong relationship?
 - What is the probability that this relationship is due to chance?
 - Do we accept or reject the hypothesis?
- (9) Evaluate the hypothesis: A respondent's age (info_age) is negatively correlated with their frequency of political participation (actionindex).
- Report the Pearson correlation value for this hypothesis.
 - As age increases, what happens to their frequency of political participation?
 - Is this a weak, moderate, or strong relationship?
 - What is the probability that this relationship is due to chance?
 - Do we accept or reject the hypothesis?
- (10) Evaluate the hypothesis: A respondent's age (info_age) is negatively correlated with their feelings toward Donald Trump (score_trump).
- Report the Pearson correlation value for this hypothesis.
 - As a respondent's age increases, what happens to their feelings about Donald Trump?
 - Is this a weak, moderate, or strong relationship?
 - What is the probability that this relationship is due to chance?
 - Do we accept or reject the hypothesis?