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### **Chapter 14 Describing Relationships Scatterplots**

Chapter 14: Describing Relationships (Scatterplots and Correlation) Aaron Zimmerman STAT 220 - Summer 2014  
Department of Statistics University of Washington - Seattle

### **Chapter 14: Describing Relationships (Scatterplots and ...**

tunisiaharris. Chapter 14: Describing Relationships (Scatterplots and Correlation) STUDY. PLAY. The most common way to display the relation between two quantitative variables is a   . Scatterplot. In any graph, you should look for the    and any   . Overall pattern & deviations.

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## **Chapter 14: Describing Relationships (Scatterplots and ...**

Chapter 14 Describing Relationships: Scatterplots and Correlation We look at scatterplots and linear correlation for paired (bivariate) quantitative data sets. Scatterplot is graph of paired sampled data and linear correlation is a measure of linearity of scatterplot. Formula for linear correlation coefficient is  $r = \frac{1}{n-1} \sum (x_i - \bar{x})(y_i - \bar{y}) / (s_x s_y)$

## **Chapter 14 Describing Relationships: Scatterplots and ...**

Describing Relationships: Scatterplots and Correlation Chapter 14 October 31, 2012 Relationships Among Variables Scatter plots Pearson's Correlation  $r$  Examples Ecological Correlations

## **Describing Relationships: Scatterplots and Correlation ...**

Chapter 14 3 Scatterplot A Scatterplot shows the relationship between two quantitative variables measured on the same

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individuals. The values of one variable appear on the horizontal axis, and the values of the other variable appear on the vertical axis.

### **Chapter14 - Chapter 14 Describing Relationships ...**

298 CHAPTER 14 Describing Relationships: Scatterplots and Correlation  
Correlation  $r = 0$  Correlation  $r = 0.5$  Correlation  $r = 0.9$   
Correlation  $r = -0.3$  Correlation  $r = -0.7$  Correlation  $r = -0.99$   
Figure 14.7 How correlation measures the strength of a straight-line relationship.

### **University of South Carolina**

Chapter 14 Describing Relationships: Scatterplots and Correlation  
We look at scatterplots and linear correlation for paired (bivariate) quantitative data sets. Scatterplot is graph of paired sampled data and linear correlation is a measure of linearity of scatterplot.

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## **Scatterplots and Correlations Notes - Chapter 14 Describing...**

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## **Chapter 14 Describing Relationships Scatterplots And**

Chapter 14 1 Chapter 14 Describing Relationships: Scatterplots and Correlation Statistical versus Deterministic Relationships

- Distance versus Speed (when travel time is constant).
- Income (in millions of dollars) versus total assets of banks (in billions of dollars).
- Distance versus Speed
- Distance = Speed  $\times$  Time
- Suppose time = 1.5 hours

## **Chapter 14**

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scatterplots (form, direction, strength, outliers) Read and learn for free about the following article: Describing scatterplots (form, direction, strength, outliers) If you're seeing this message, it means we're having trouble loading external resources on our website.

### **Describing scatterplots (form, direction, strength ...**

□ A scatterplot is the most common way to display the relationship between two quantitative variables measured on the same individual. □ The values of one variable appear on the x-axis and the values of the other variable appear on the y-axis. □ If we have an explanatory variable, that goes on the x-axis.

### **Describing Relationships: Scatterplots & Correlation**

Question 14 (Mandatory) (2 points) Saved Based on the scatterplot below, how would you describe the relationship between X and Y? 100 140 120 100 30 D 2 a) Weak negative b)

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Strong negative c) Strong positive d) Weak positive

### **Solved: Question 14 (Mandatory) (2 Points) Saved Based 0 ...**

A scatterplot is a type of data display that shows the relationship between two numerical variables. Each member of the dataset gets plotted as a point whose x-y coordinates relates to its values for the two variables.

### **Scatterplots and correlation review (article) | Khan Academy**

A scatterplot shows the relationship between two quantitative variables measured on the same individuals. The values of one variable appear on the horizontal axis, and the values of the other variable appear on the vertical axis. Each individual in the data appears as a point on the graph. 1.

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## **Chapter 3: Describing Relationships**

In chapter 2 and 10 we will be looking at the relationship between two quantitative variables measured on the same individual. General Procedure: 1. Make a scatterplot and describe the form, direction and strength of the relationship. Note: fitting a line only makes sense if the overall pattern of the scatterplot is roughly linear. 2.

## **CHAPTER 2 AND 10: Least Squares Regression**

Scatterplots and Correlation Diana Mindrila, Ph.D. Phoebe Balentyne, M.Ed. Based on Chapter 4 of The Basic Practice of Statistics (6th ed.) Concepts: Displaying Relationships: Scatterplots Interpreting Scatterplots Adding Categorical Variables to Scatterplots Measuring Linear Association: Correlation Facts About Correlation

## **Scatterplots and Correlation - UWG**



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Chapter 3: Describing Relationships 47 Section 3.2: Least-Squares Regression Before You Read: Section Summary In the last section, we learned that we can display the relationship between two quantitative variables using a scatterplot. Further, we can use a scatterplot to describe the direction, form, and strength of the relationship.

### **Chapter 3: Describing Relationships**

Statistics Chapter 14: Probability Rules. Chapter 15: Probability Models - PART A ... Chapter 7-9: Exploring Relationships Between Variables. Scatterplots, Association, and Correlation. ...

"Association" is a deliberately vague term describing the relationship between two variables. For example, if someone were to say, "There appears to be a ...

### **Chapter 7-9: Exploring Relationships Between Variables**

...

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Chapter 7 Scatterplots, Association, and Correlation 101  
10. Coffee sales. a) A histogram of daily sales is at the right. b) The scatterplot shows that, in general, the sales have been increasing over time. The histogram does not show this. c) The histogram shows that the mean of the daily sales for the coffee shop was between \$300 and \$400, and that this

### **Chapter 7 - Scatterplots, Association, and Correlation**

Question: Chapter 14: What Term Would A Geneticist Use To Describe The Relationship Between The A/a And B/b Genes Shown In This Figure? Mother AaBb AB Ab Eggs AB AABb AABb AaBb AaBb Father AABb AAbb AaBb Aabb AaBb AaBB AaBb aaba AaBb TIT AaBb Aabb AaBb Aabb Epistasis Complete Dominance Polygenic Pleiotropic

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