

Self-Reflection

Assessment 2 – Statistics Website

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The Case of the Startling Statistics

<https://voneill327.wixsite.com/statsassessment2>



The Case of the Startling Statistics

HOME *Mean, Median, Mode* *Variability* *T - Test* *Z - Test* *ANOVA*

Welcome Statistics Sleuths! Our investigative team has established this website to help you solve The Case of the Startling Statistics! Our detectives will explain several concepts in Statistics, so you can use them to solve your own data mysteries.

"Data! Data! Data! I can't make bricks without clay."
— Sherlock Holmes, in Arthur Conan Doyle's *The Adventure of the Copper Beeches*

Stat On

Group Members	Project Contributions
Anna Boscarino, Susan Marie Terra, Ronnie O'Neill, Leah Shull (all members)	<ul style="list-style-type: none"> ● 3/10/19 All members participated in group Hangout (Video Call) to begin planning for assignment. ● Wix was chosen as the website platform and Ronnie agreed to post all content ● Leah agreed to create a template so that the individual pages can show standard formatting ● Group members discussed what concepts to teach in the videos. It was decided that z-test, t-test, and ANOVA will be the inferential statistics. Mean/median/mode and standard deviation with outliers will be the descriptive statistics. ● It was suggested that a theme might make our site feel more cohesive. The group decided to go with a Sherlock Holmes theme since statistics is often seen as a mystery to many people. ● Division of labor for videos: <ul style="list-style-type: none"> ○ Anna: z-test and ANOVA (2 videos) ○ Susan: Standard Deviation/outliers (1 video) ○ Ronnie: Mean/median/mode (1 video) ○ Leah: t-test (1 video)
Anna Boscarino	<ul style="list-style-type: none"> ● Developed content for Z-score section of website (video and write up) ● Developed content for ANOVA section of website (video and write up) ● Assisted with reviewing and editing website when all components were posted
Susan Marie Terra	<ul style="list-style-type: none"> ● Researched variability including range, standard deviation, and variance. ● Developed content in the form of video and written content for variability section which included range, standard deviation, and variance. ● Assisted with reviewing and editing website when all components were posted ● Choose group name: Stars of Startling Statistics ● Uploaded URL to discussion forum
Ronnie O'Neill	<ul style="list-style-type: none"> ● Designed the Sherlock Holmes themed website ● Obtained Victorian themed graphics and fonts for the website

	<ul style="list-style-type: none">● Created custom titles and section graphics● Developed content for the Mean, Median, Mode page● Recorded video presentation for Mean, Median, Mode page● Uploaded all group members' work to the website● Assisted with reviewing and editing website when all components were posted
Leah Shull	<ul style="list-style-type: none">● Created shared folder in Google drive for project documents● Developed content for T-test section of website (video and write up)● Created template for page content to ensure consistency throughout the website● Assisted with reviewing and editing website when all components were posted

Self-Reflection

Assessment 2 – Statistics Website

Learning statistics can be a daunting task and having quality learning aids can make a difference. In this assignment, we were tasked with creating a statistics website, with definitions, data sets, and full explanations which would help a learner understand five different statistical concepts. A short video was created for each concept as well, with live explanations of the concepts. This document is a self-reflection on the final product for our group, which included Anna Boscarino, Leah Shull, Susan Marie Terra, and myself. Our website can be found at <https://voneill327.wixsite.com/statsassessment2>.

Required elements

Our website consists of a home page with a brief explanation of the project, as well as five pages addressing five different statistical concepts. Two of these concepts were descriptive, measures of central tendency and variability, and the other three were inferential, t-test, z-test and ANOVA.

We wanted to create an engaging website, so we decided to use a theme. Since many find statistics mysterious, we decided to use elements from Sherlock Holmes to give our website an interesting visual appeal. The background for all of the webpages, a map of historic London, and the Victorian style graphics, were located on Pixabay.com, a website that provides public domain graphics. I also created custom titles and section headers using a fancy Victorian font to evoke the Sherlock Holmes era. For each concept, we used a standard format to provide a definition, a data set, a video and a discussion. Early in our planning we decided on a single platform, Keynote, to create our presentations, and chose a single theme to give the videos a consistent look and feel. Keynote is able to record a voice-over narration for the presentation and is also

able to convert the recorded presentation into a QuickTime movie with a few keystrokes. We were also able to incorporate the theme into the videos themselves, using Deerstalker hats and magnifying glasses as props in photos.

In my opinion, our group met or exceeded all of the requirements as stated in the rubric for Required Elements and has earned a grade of 10 points.

Statistical Concepts

The concepts we present on our website were chosen to help a learner to understand some important statistical measures, starting with the basics, measures of central tendency, which are integral to many of the topics which follow. In subsequent pages, we address the concept of variability, demonstrating standard deviation and the impact of outliers. As you progress further into the website, the content becomes more complex, with the t-test, z-test and ANOVA. The explanations provided, both in the documentation and the videos, help a learner understand these complex ideas, and demonstrate how they can be used in an example.

In my opinion, our website would be useful for a learner looking for reinforcement of a statistics lesson, or for an educator looking to present this material in an engaging manner. I believe we have met all of the requirements as outlined in the rubric for Statistical Concepts and have earned a grade of 15 points.

Conclusion

The group that was assembled for this project may be my favorite group in the two years I have spent in this program. We all work well together, everyone is eager to shoulder their share of the burden. We have different ideas and opinions, but we listen respectfully and work together to come to an agreement. As just one example, I enjoy web design, and offered to take that task. It was immediately agreed that I would handle the simplest of the concepts, as the responsibility

of formatting everyone else's work and presenting it would fall to me. In turn, Anna immediately volunteered to take on two of the concept videos. This is just one example of our cooperative spirit. Feedback was requested, received and acted upon at every stage of the project. What you see on our website is truly a group product, and we are very proud of it.