

Coursera: Developing Data Products

The Effectiveness of ASVAB Testing

Background

- The American military recruits and trains a tremendous amount of new personnel every year. To match people with skills, the armed forces recruits must take a test called the ASVAB. This study will try to determine if the the ASVAB is an indicator of future success.

ASVAB

- The ASVAB was first introduced in 1968 and was adopted by all branches of the military in 1976. It underwent a major revision in 2002. In 2004, the test's percentile rank scoring system was renormalized, to ensure that a score of 50% really did represent doing better than exactly 50% of the test takers.
- This application looks at ASVAB scores across three years and examines the difference in distribution between all students, students who successfully graduated and students who failed.

The Application

- The application allows you to look at 3 years worth of data. The data is broken up into 3 different groups: All data, Eliminations, and Grads.
- The application can be accessed at:

<http://tlwilson.shinyapps.io/Project>

Expected Results

- If the ASVAB is an indicator of suitability to the job being trained for, then the histogram should show a shift to the left when compared to All Data - and an even more pronounced shift when compared to students who successfully graduated