

STUDENT ALCOHOL CONSUMPTION

Academic achievement isn't always an absolute measure of a student's intelligence but is influenced by alcohol consumption and can affect the ability to learn.

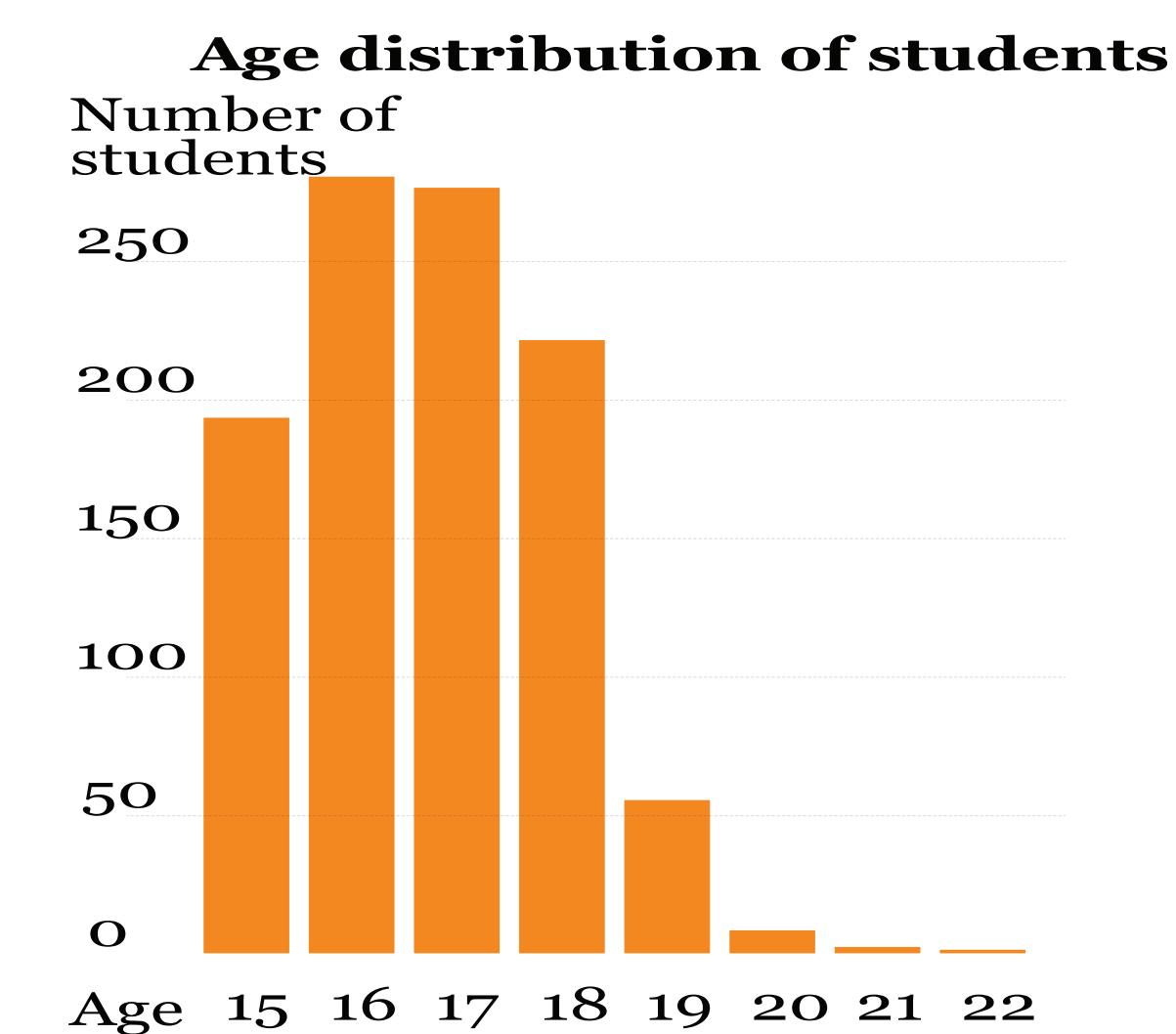
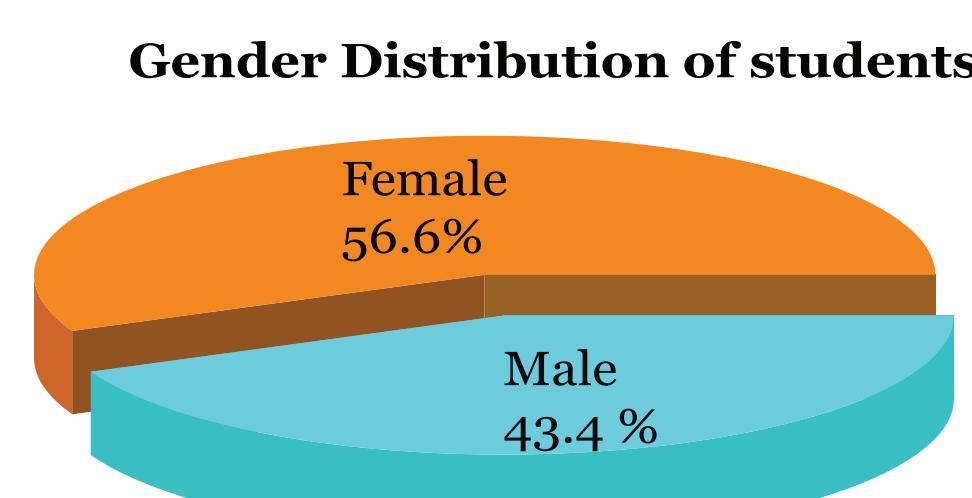
The present work tries to establishes relationship between student achievement in secondary school in Portugal using real-world data collected using school survey.

Aman Shriman
INFORMATION MANGEMENT
IST 719 INFORMATION VISUALIZATION

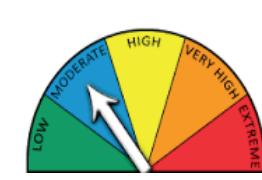
Data Description



The dataset is a multivariate with 1044 instances and 32 attributes and is available as "student.csv". Survey was conducted over students of secondary school having an age group of 15-22 years.

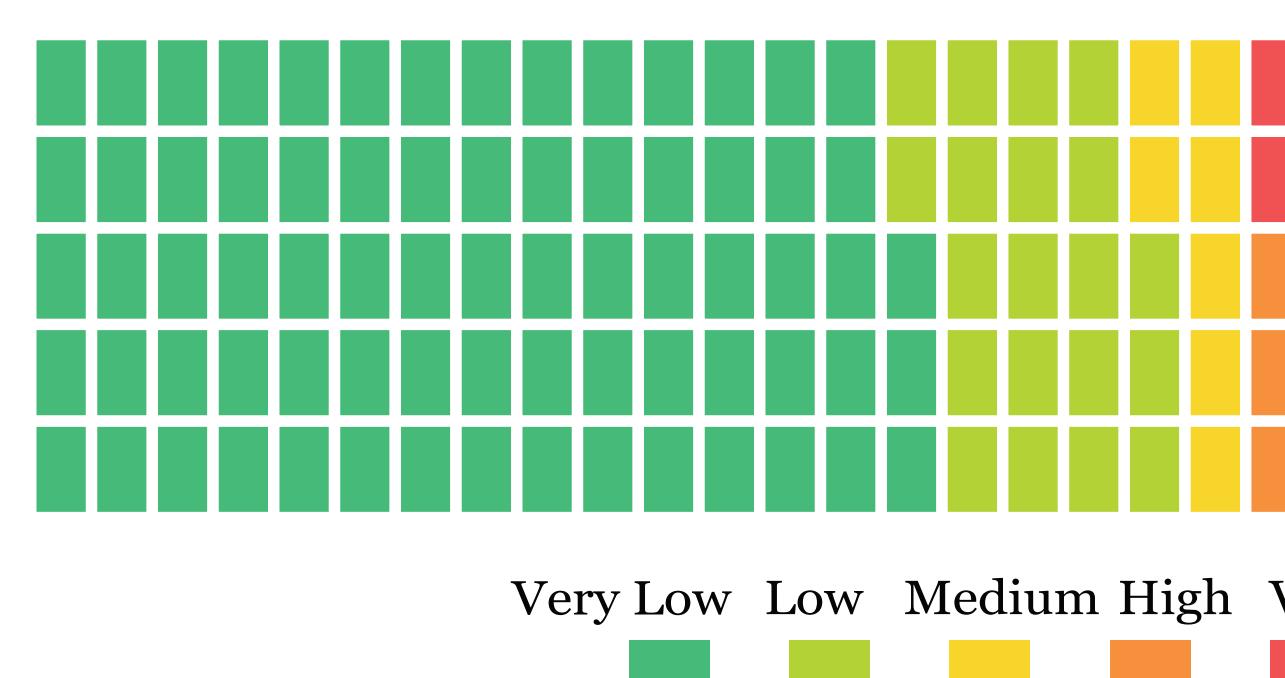


Amount of Alcohol Consumption?

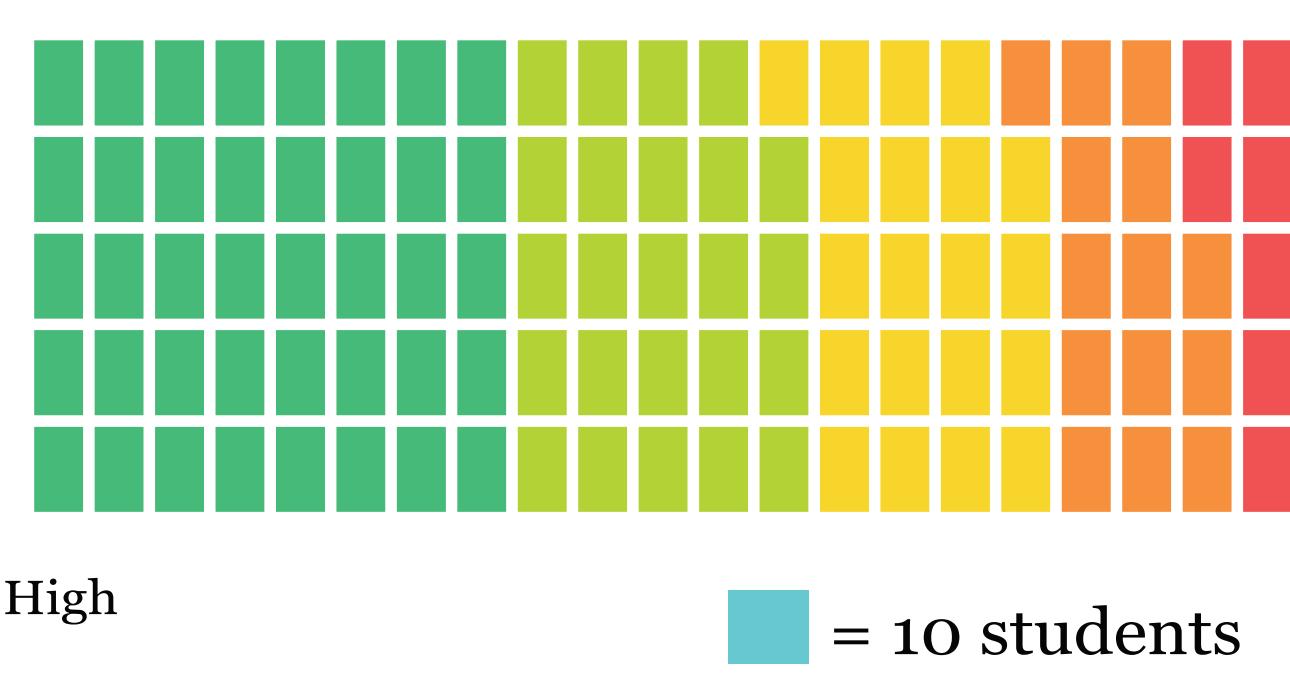


Quantity of alcohol consumption increases significantly over the weekend . The change from very low amount of consumption during weekdays may be attributed to partying and social activies.

Workday alcohol consumption



Weekend alcohol consumption



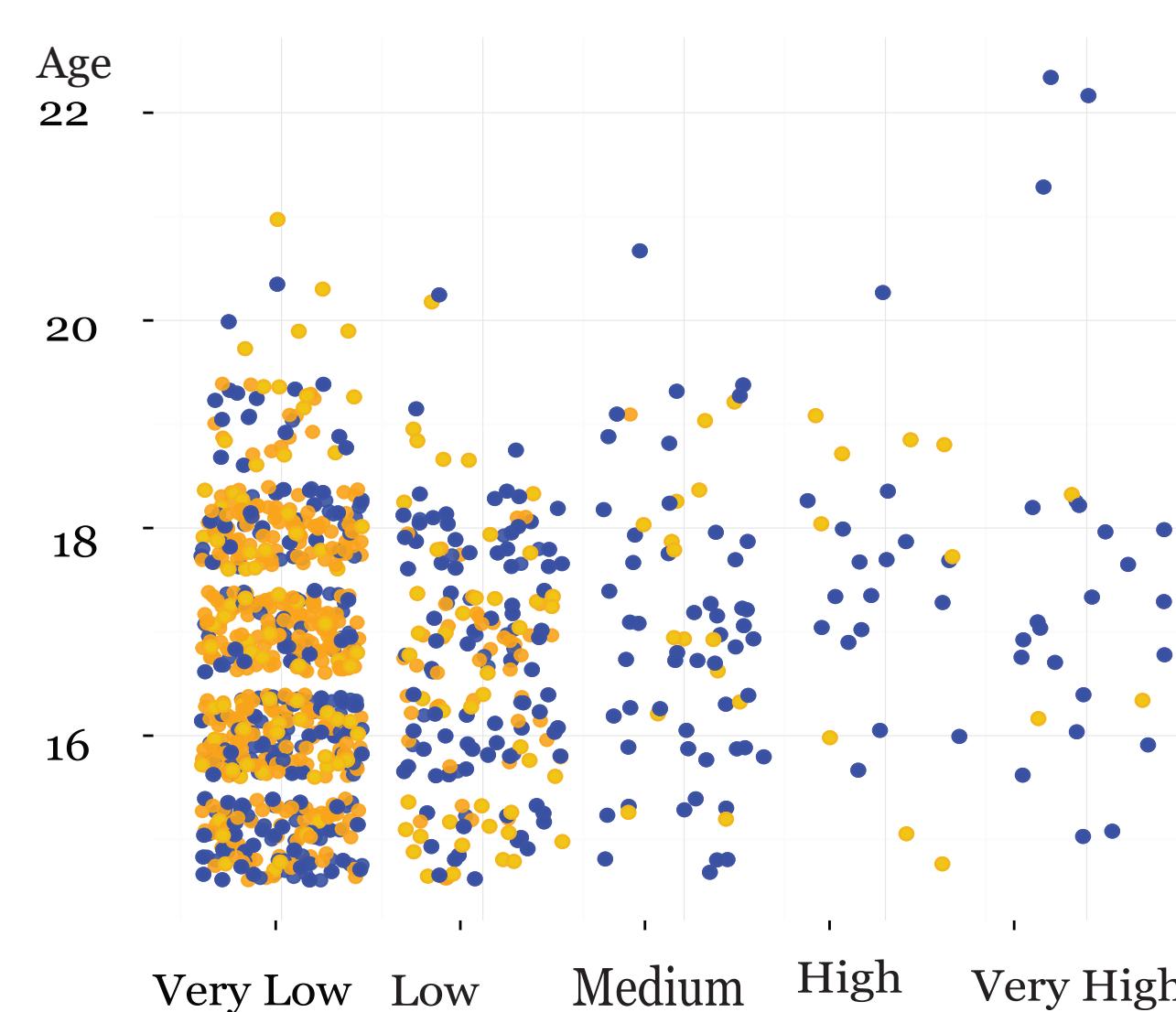
= 10 students

Consumption level among gender?

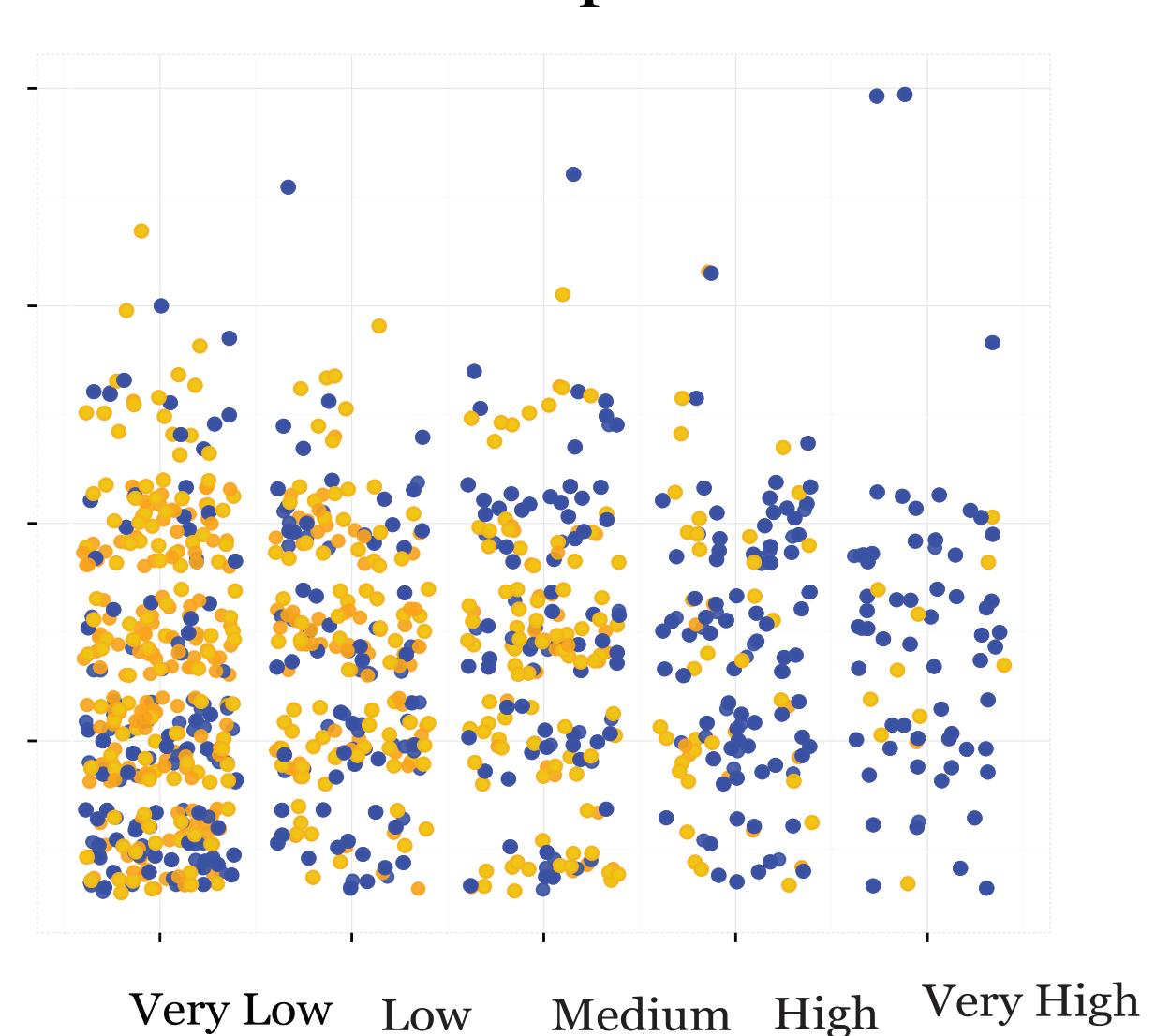


Level of alcohol consumption is found to be less in boys during the weekdays than in weekend. Girls were seen to be consuming more alcohol in weekend. Quantity of usage among girls is very low as compared to boys in the entire week.

Workday Consumption



Weekend Consumption



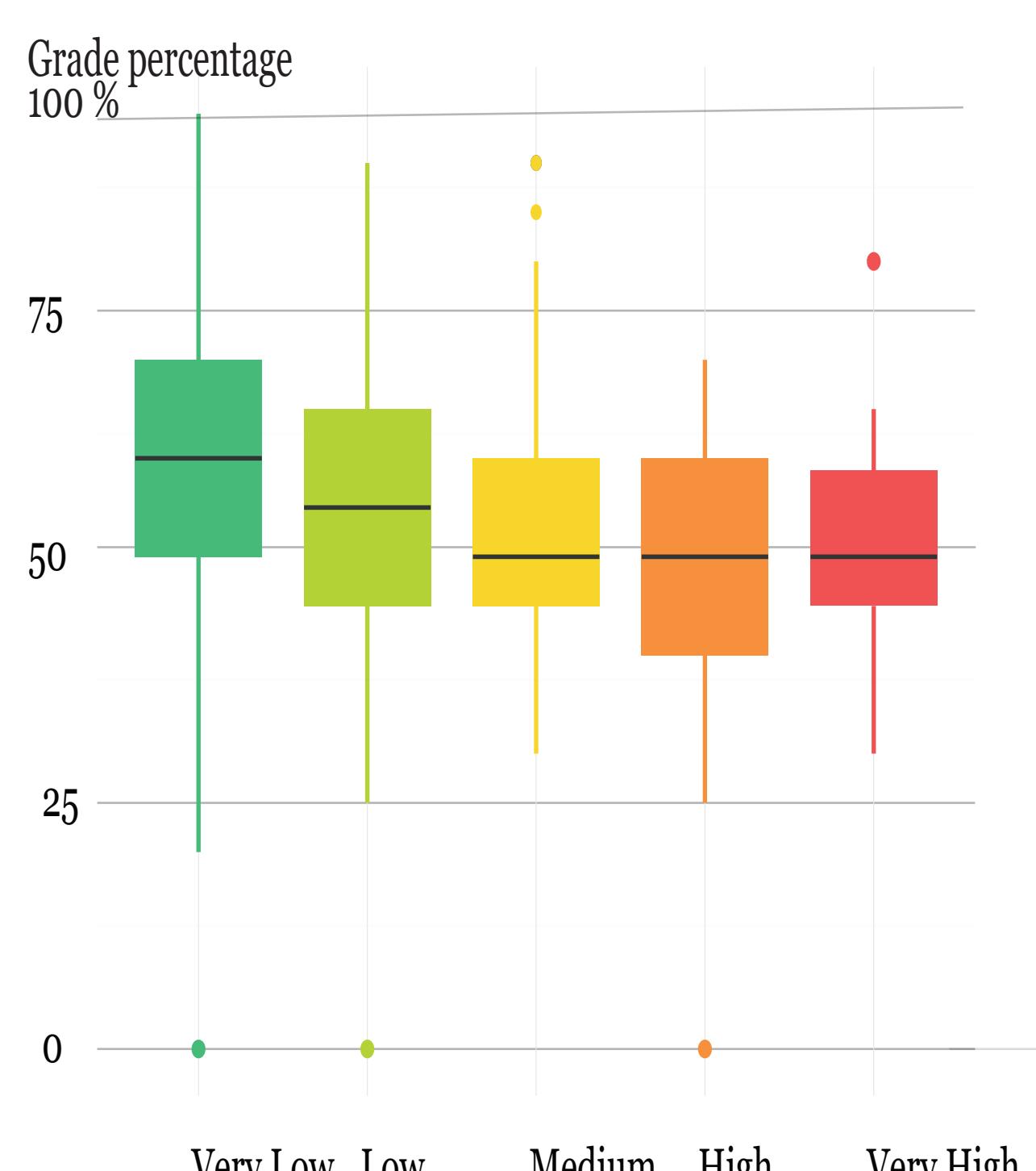
Male Female

Effect of alcohol consumption on academics

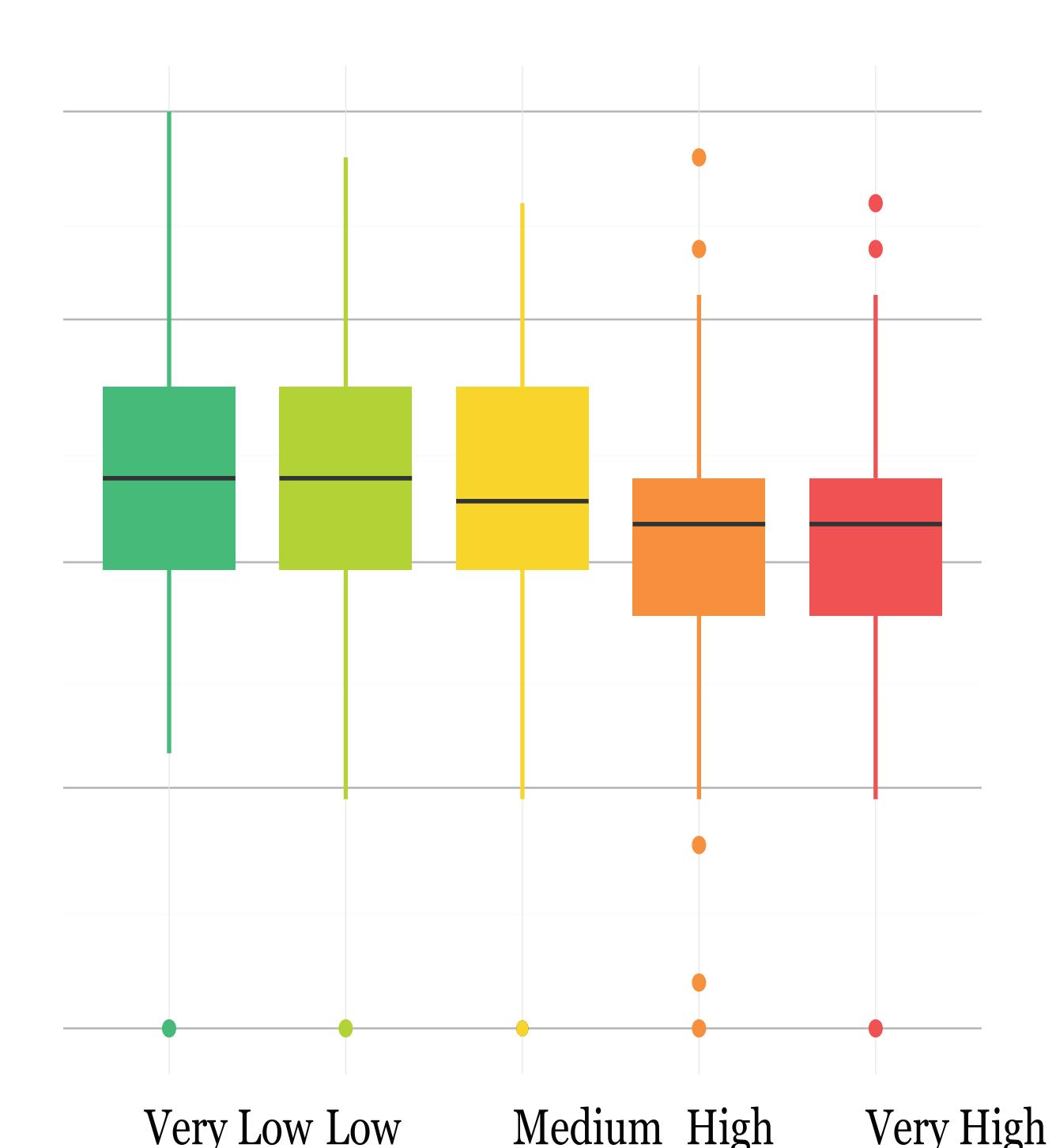


Very high level of alcohol consumption during the week doesn't seem to help get a great final grade.

Workday alcohol consumption



Weekend alcohol consumption



Audience



The school administrator, teaching, non-teaching staff, parents and students interested in understanding behavioral pattern that would ultimately benefit students academic achievement and help generate appropriate assessment, prevention and intervention strategies.

Data Source:



1. "Using Data Mining To Predict Secondary School Student Alcohol Consumption, by Fabio Pagnotta and Mohammad Amran of Department of Computer Science
2. Kaggle

Design Process and Tools



Data was acquired in Excel format and saved as "student.csv" and was clean. PLots were created in R using functions ggplot, waffle plot, box plot, bar chart, pie chart. Later the plots were designed in the illustrator.

Image source

- www.creativemarket.com
- www.t-cep.org
- www.findicons.com
- www.rightnowinc.com