**Ice Cream data set**

This page shows an example of a multinomial logistic regression analysis with footnotes explaining the output. The data were collected on 200 high school students and are scores on various tests, including a video game and a puzzle. The outcome measure in this analysis is the student’s favorite flavor of ice cream – vanilla, chocolate or strawberry- from which we are going to see what relationships exists with video game scores (**video**), puzzle scores (**puzzle**) and gender (**female**).

|  |  |  |
| --- | --- | --- |
| Variable name | Variable | Data type |
| Id | Identity of the student | Nominal |
| female | Gender (0: Male, 1:Female) | Binary |
| ice\_cream | Favorite Flavor (1: Vanilla, 2: Chocolate, 3: Strawberry) | Nominal |
| video | Score on the video game | Scale/Continuous |
| puzzle | Score on the puzzle | Scale/Continuous |

**ice\_cream** is the **dependent** variable(the **predicted** variable).

**female, video** and **puzzle** are the **independent** variables(the **predictors**).