

**Instituto de Computação (IC) Unicamp**



**Escola de Extensão da Unicamp**



**UNICAMP**

**Universidade Estadual de Campinas**

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**INF 331 - Componentização e Reuso de Software**  
**Prof. André Santanché**

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**Aula 01**

Orange + notebook

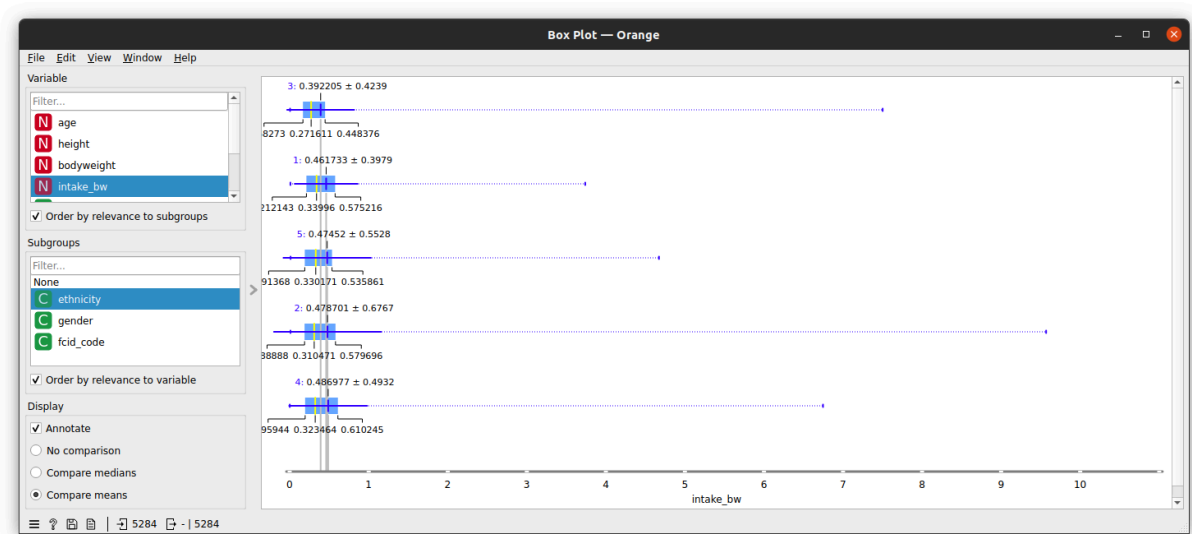
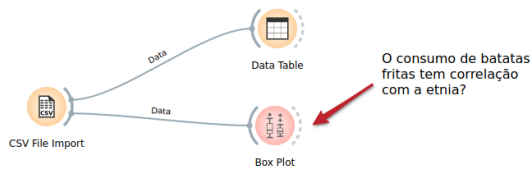
**Aluno**

Douglas Sermarini - 147730

Repositório : <https://github.com/Douglas019BR/INF331-lab01>

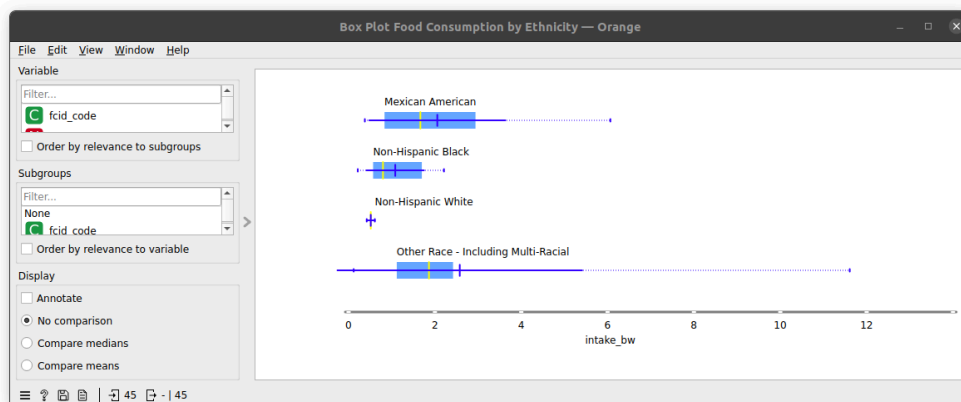
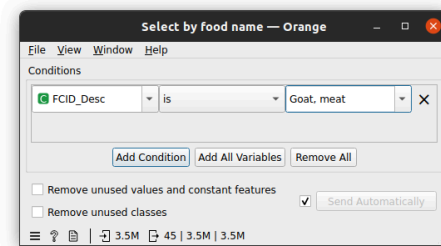
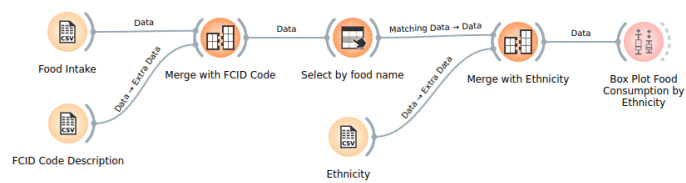
## Laboratório 1 – Tarefa 1

Arquivo: [tarefa-01-01.ows](#)



## Laboratório 2 – Tarefa 1

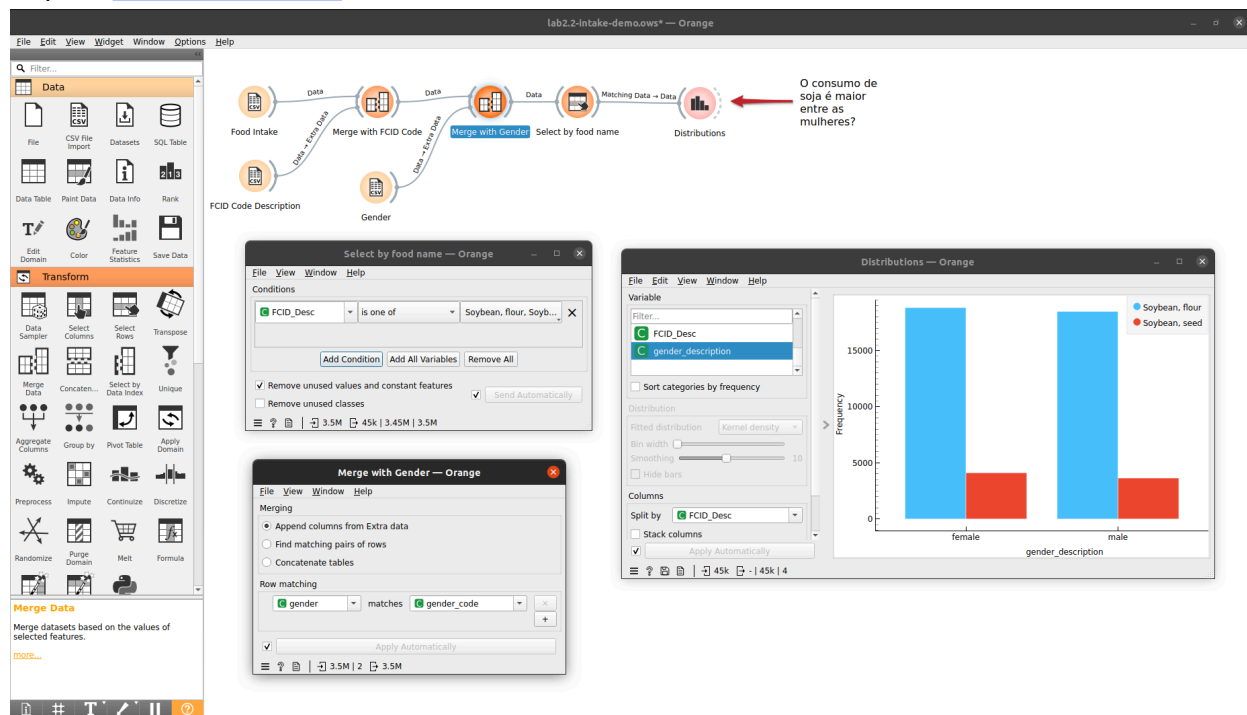
Arquivo: [tarefa-02-01.ows](#)

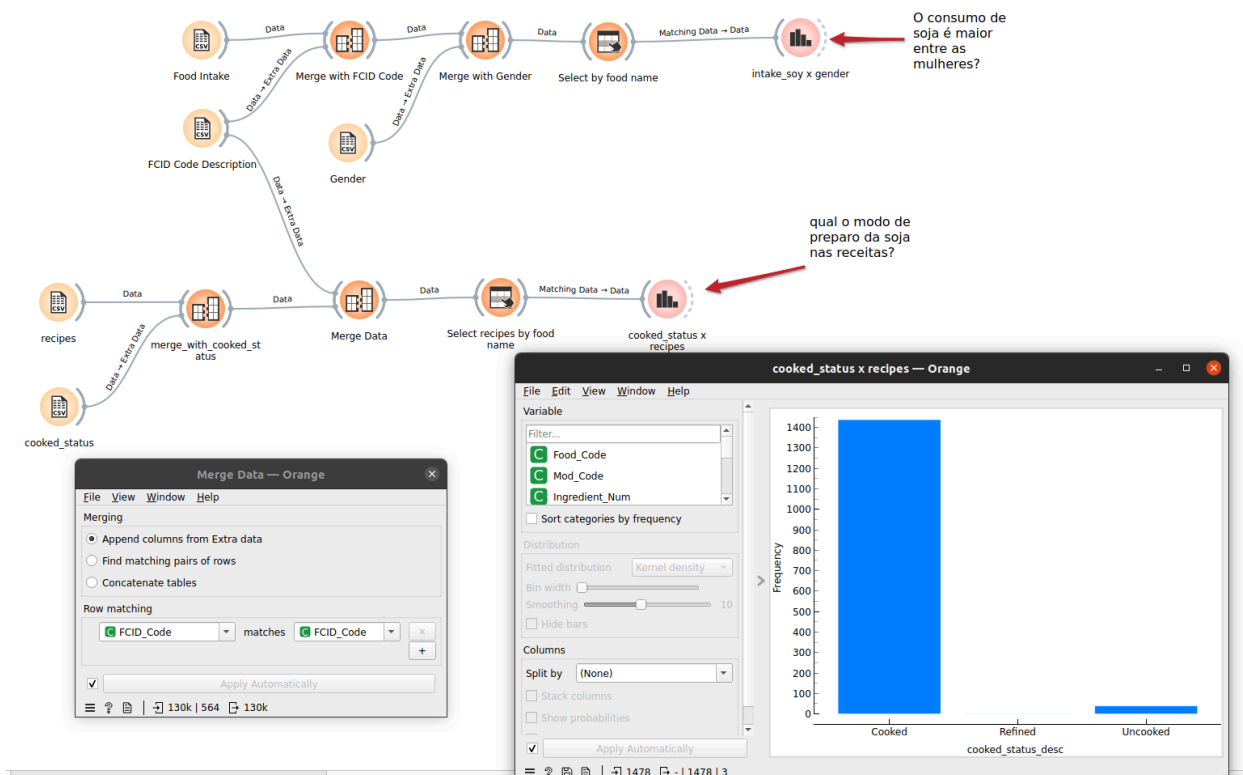


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## Laboratório 2 – Tarefa 2

Arquivo: [tarefa-02-02.ows](#)





## Laboratório 3 – Tarefa 1

Arquivo: [w10-intake-potato-chips-douglas.ipynb](#)

```

Plotting Correlation between Potato Chips Intake and Age and the box_plot between
Potato Chips Intake and ethnicity

Assisted by Claude

[4] import pandas as pd
import matplotlib.pyplot as plt

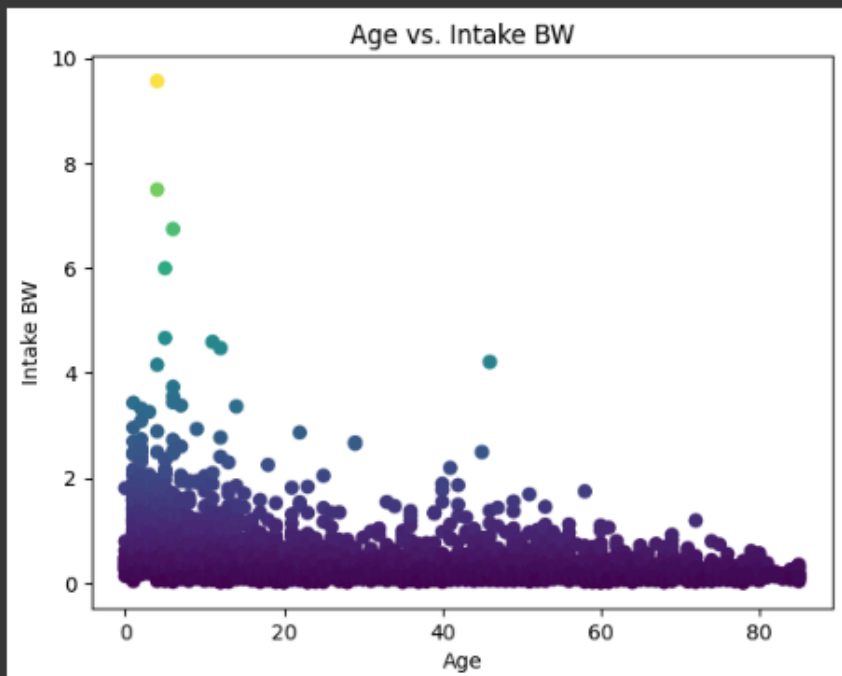
def import_file(file_path):
    df = pd.read_csv(file_path)
    return df

def show_scatter_plot(data_frame, x_column, y_column, x_legend, y_legend, title):
    df = data_frame
    plt.scatter(df[x_column], df[y_column], c=df[y_column], cmap='viridis')
    plt.xlabel(x_column)
    plt.ylabel(y_column)
    plt.title(title)
    plt.show()

def show_box_plot(data_frame, x_column, y_column, x_legend, y_legend, title):
    df = data_frame
    plt.figure(figsize=(10, 6))
    df.boxplot(column=y_column, by=x_column)
    plt.xlabel(x_column)
    plt.ylabel(y_column)
    plt.title(title)
    plt.suptitle('') # This removes the automatic subtitle added by pandas
    plt.show()

File path = '/content/intake-person-demo(potato-chips).csv'
df = import_file(file_path)
show_scatter_plot(df, 'age', 'intake_bu', 'Age', 'Intake BW', 'Age vs. Intake BW')
show_box_plot(df, 'ethnicity', 'intake_bu', 'Ethnicity', 'Intake (Body Weight)', 'Intake by Ethnicity')

```



<Figure size 1000x600 with 0 Axes>

