

## Tutorial III.III - DataFrames in Julia

Applied Optimization with Julia

# Introduction

Welcome to this tutorial on plotting in Julia! We'll be using the powerful Plots.jl package to create beautiful and informative visualizations. Don't worry if you're new to plotting – we'll start with the basics and gradually build up to more advanced techniques.

In this tutorial, you'll learn how to: 1. Create simple plots like line graphs and scatter plots 2. Customize your plots with colors, labels, and styles 3. Add multiple data series to a single plot 4. Save your plots as image files for use in reports or presentations

Follow the instructions, write your code in the designated code blocks, and validate your results with `@assert` statements.

Before we begin, let's make sure you have the necessary packages installed. If you've been following the course, you'll need to install the Plots and StatsPlots packages:

```
import Pkg; Pkg.add(["Plots","StatsPlots"])
```

Now, let's load these packages:

```
using Plots, StatsPlots
```