For tutorials with DataFrames and CSV files you can check:<https://github.com/bkamins/JuliaCon2021-DataFrames-Tutorial> and <https://github.com/bkamins/Julia-DataFrames-Tutorial>.

Also the documentation of the CSV.jl package may come in handy: <https://github.com/JuliaData/CSV.jl>.

A function has **!**as a convention at it end when it would mutate its arguments.

Question from someone: What is the difference between p3 = Point3(x=999, meta = "Origin") and p3 = Point3(;x=999, meta = "Origin")

There is no difference. You can omit ; when you pass keyword arguments, but many people add it to improve code readability. This is especially useful when you pass both positional and keyword arguments, for example

```

julia> string(10; pad=10)  
"0000000010"

```

here 10 is positional argument, and pad=10 is keyword argument. You are allowed to separate positional and keyword arguments by ; to make sure that after `;` only keyword arguments are passed. But you could also write:

```

julia> string(pad=10, 10)  
"0000000010"

```

This is allowed as it is not ambiguous, but it is not very readable, so usually people avoid it.