

# BiorbdOptim

07/04/20

pyomeca /BiorbdOptim

<https://github.com/pyomeca/BiorbdOptim>

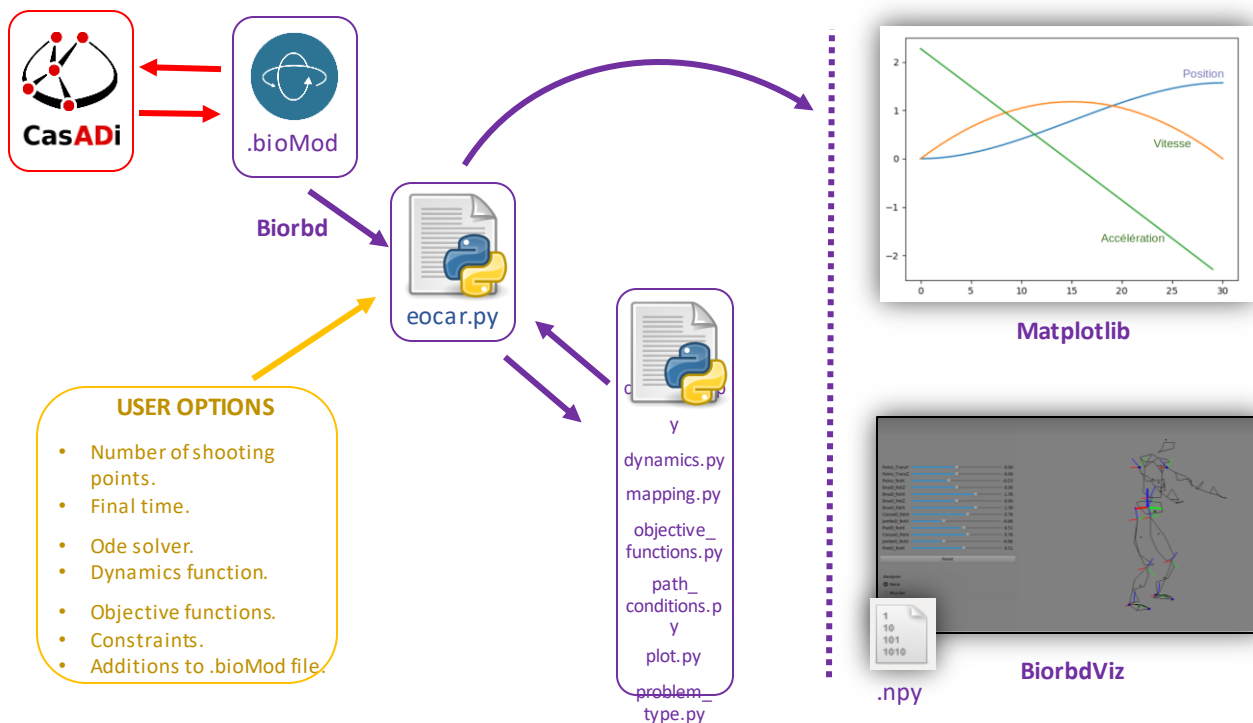
Developed by :

Benjamin MICHAUD

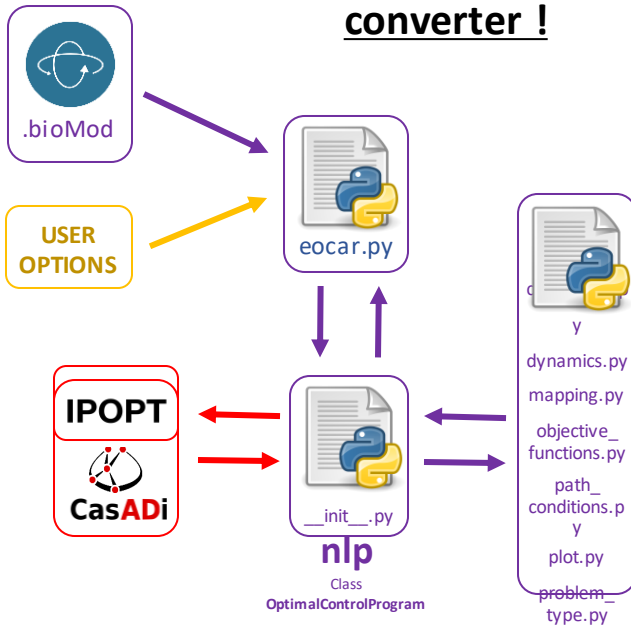
Paul WEGIEL

Théophile GOUSSELOT

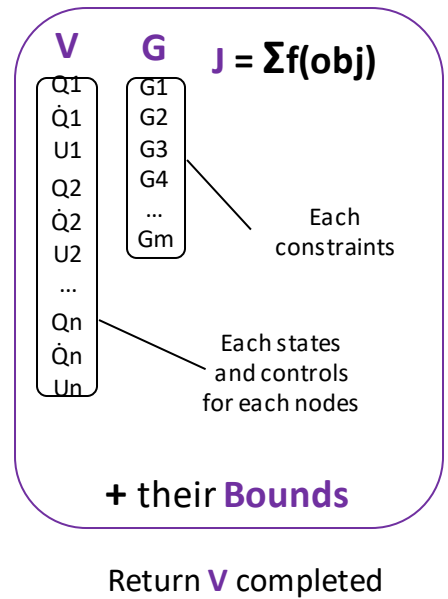
Paul WEGIEL &  
Théophile GOUSSELOT



## Nothing more than a converter !



## What does Ipopt wants ?



## NEW PROJECT

1 Copy/Paste eocar.py in new Folder and create new branch in Git.

2 Adds .bioMod file **.bioMod**

3 Adapts eocar.py to your problem

Have to change :

- Path to bioMod file.
- Number of shooting points.
- Final time.
- Ode solver.
- Dynamics function.
- Objective functions.
- Constraints.
- Bounds



**DO NOT TOUCH THE "BIORBD\_OPTIM" FILES.**

## ADDS FUNCTIONALITY

? New objective function ?

- Adds a static method in class ObjectiveFunction

**objective\_functions.py**

? New constraint ?

- Adds a static method in class Constraint
- Adds a call to this function at the end of "add\_constraints" method.

**constraints.py**



... Same method for all files.



**Ask a Pull request.**



**DO NOT FORGET TO USE YOUR new fonctionnality in "eocar.py".**