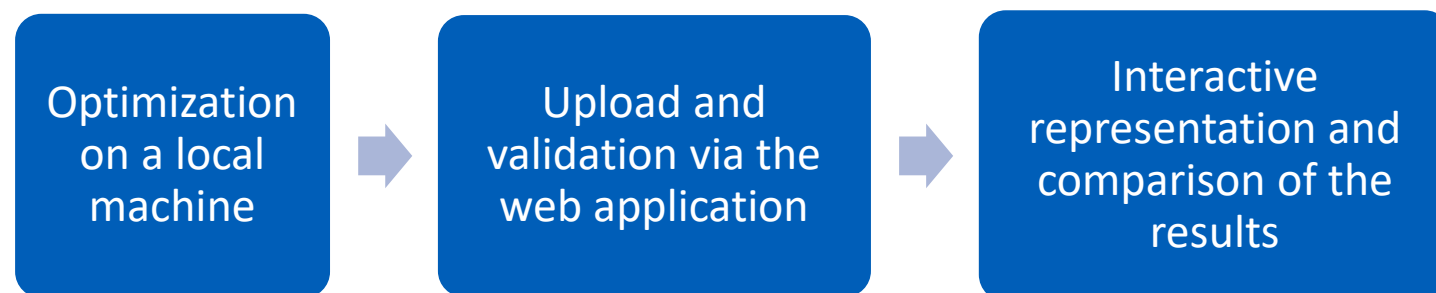


## Development of an interactive optimization benchmark dashboard

### Motivation:

An important part of optimization is the analysis of the objective space and the optimization results. To do this on the fly, an interactive dashboard is needed. The idea is to develop a flexible dashboard where different data visualizations and data sources can be selected. The main goal is to develop useful representations that can give a good insight into high dimensional data. This dashboard shall be incorporated into a website which allows users to register, upload and compare their results for pre-defined benchmark problems. For more detailed information please contact us.

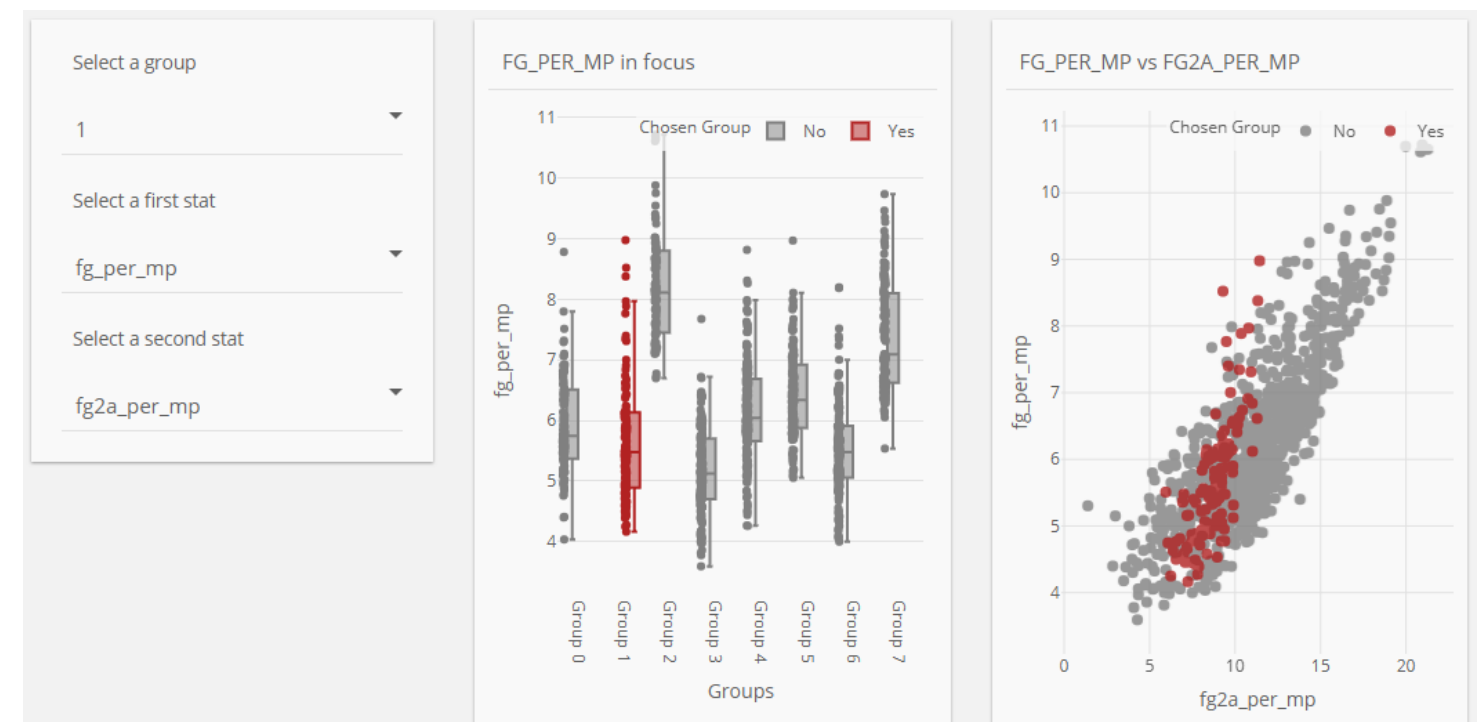


### Prerequisites:

- Basic knowledge in python (javascript is a bonus).
- Motivation to learn about optimization and optimization result representation.

### Tasks:

- Getting familiar with optimization and result visualization.
- Development of an interactive visualization dashboard.
- Modifying of available website template for this use case.
- Integration of the dashboard into the website.



Example of a dashboard implementation: <https://dash.gallery/>

### Contact:

Alice Reinbacher-Köstinger, [alice.koestinger@tugraz.at](mailto:alice.koestinger@tugraz.at)

Eniz Mušeljić, [emuseljic@tugraz.at](mailto:emuseljic@tugraz.at)