

Problemsheets

1. Make a new directory with name **practice-project**
2. Run `git init` in this directory
3. Make directory **useful_package**, and `__init__.py` inside it
4. Add and commit changes to a **master** branch
5. Create and checkout a folder **module_a_dev**
6. Create a file **module_a.py** under it
7. Add to **module_a.py** a function **polynom_3** that returns some cubic expression of X^3
8. Add import of **polynom_3** to a **useful_package/__init__.py**
9. Add and commit changes to a **module_a_dev** branch.
10. Checkout on **master**
11. Create and checkout on **module_b_dev**
12. Create a file **module_b.py** under **useful_package** directory
13. Add to **module_b.py** a function **hyperbola** that returns some hyperbola of X (with known definition area)
14. Add import of **hyperbola** to a **useful_package/__init__.py**
15. Add and commit changes to a **module_b_dev** branch.
16. Checkout on **master** and merge **module_a_dev**
17. Then merge **module_b_dev** and resolve conflicts (after modification don't forget to `git add`)
18. Checkout on **master** and hold on
19. Go to **github.com**, create a new empty repository
20. Add this repository to ours as a remote repository
21. Push to **github.com** our master branch
22. Create a new branch **regression-feature**
23. Create the **main.py** in the root of our project with a **sklearn RandomForestRegressor** to approximate functions and calculate MSE of the predictions
 - a. **hyperbola**
 - b. **polynom_3**
24. Add changes, commit them to **regression-feature**

25. Push **regression-feature** to a remote **regression-feature** and open a **pull request** on **github** (to **master**)
26. Accept **pull request** (add comments to some lines first) and look at new **master**
27. Return back to our local, remove whole directory and clone it from the **github.com**