

PYT project evaluation criteria

- Programming a **standalone program** for solving a specific problem.
- The project is shared with the subject of Structural Biology
- Structural biology and PYT evaluation are independent.

Evaluation will take into account:

- Program structure (modules, functions, class definitions,...)
- Readability
- Usability as an standalone application usable in command line (argparse)
 - Possible usage of a minimal graphical interface (standalone, as plugin,...)
 - Reusability as a package
- Reusability as a package (installable package)
- Documentation
- Graphical output if possible
- Usable with different cases

Re-construction of a macrocomplex

Problem: Given a set of interacting pairs (prot-prot, prot-RNA), reconstruct the complete macrocomplex.

Strategies: multiple alignment, modelling, ...

Examples:

- Ribosome (4V4A)
- Proteasome (1G65)
- ATP-Synthase (5DN6)
- Phosphate dehydratase (2F1D)
- Nucleosome (3KUY)
- ...