

UnderTracks

**A web platform dedicated to capitalization of
Data, Operators and Analysis processes
about Man-ILE interactions**



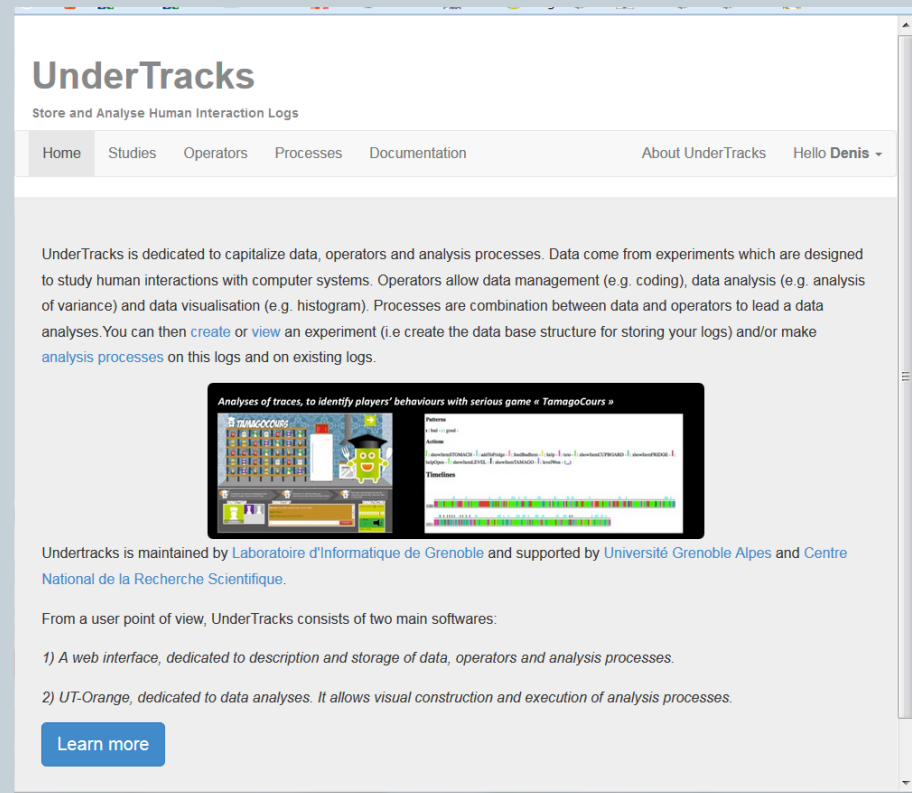
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[HTTP://UNDERTRACKS.IMAG.FR](http://undertracks.imag.fr)



About Data



- Capitalize Data
- Share Data
- Describe Data
- Link Data
 - With MetaData
 - With Analysis Process
 - With Extra Information

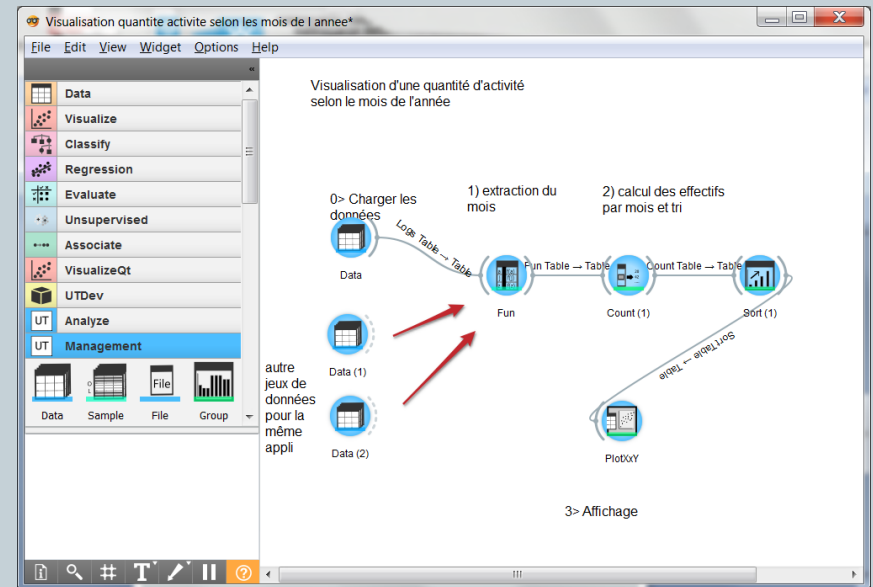


Web Platform <https://undertracks.imag.fr/>

About Analysis Process



- Capitalize Analysis Process
- Execute Analysis Process
- Describe Analysis Process
- Link Analysis Process
 - With Data
 - With Operator
 - With Results

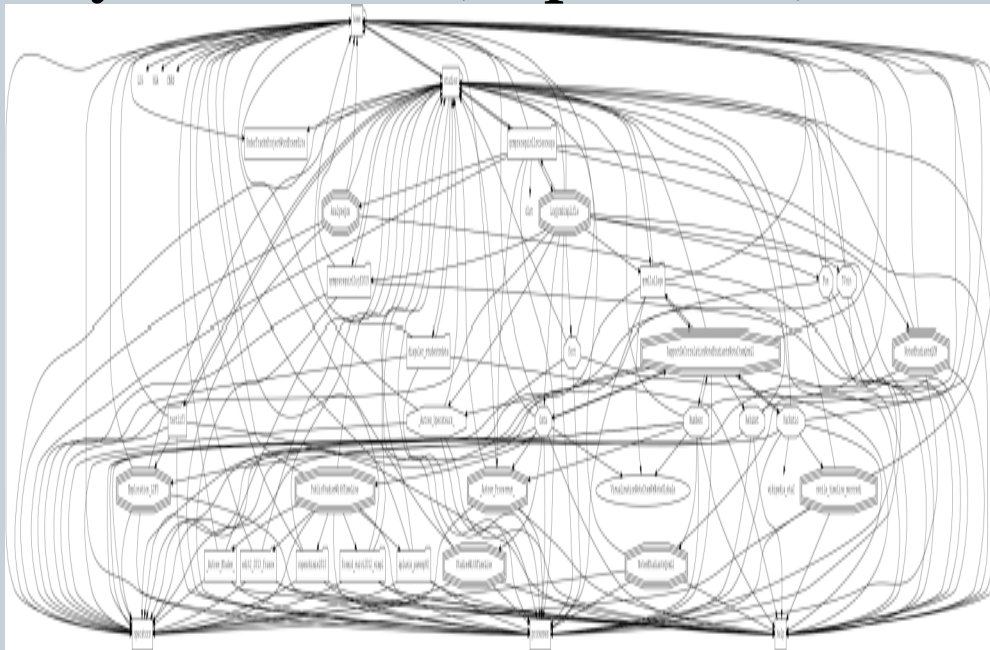


□ UT-Orange, clone of <http://orange.biolab.si/>

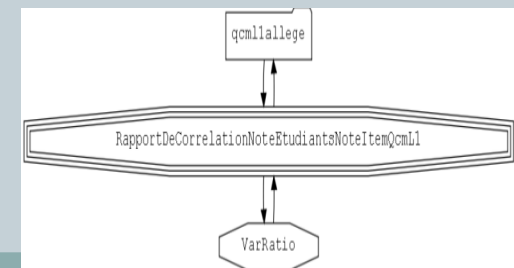
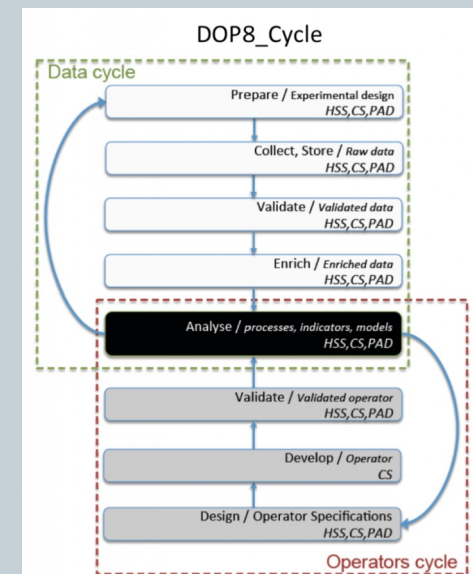
Links



- Web UnderTracks, Main Pages, Documentation, Data, Analyses Process, Operators, ...



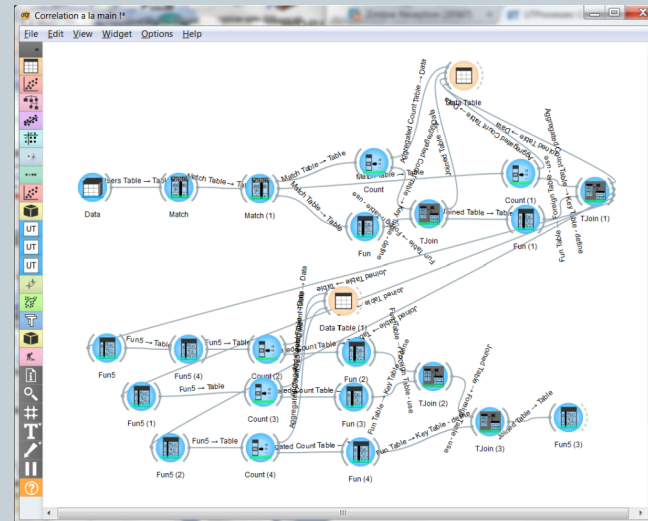
- Data => Analysis Process <= Operator
Data life cycle and Operator life cycle
meets at Analysis Processes



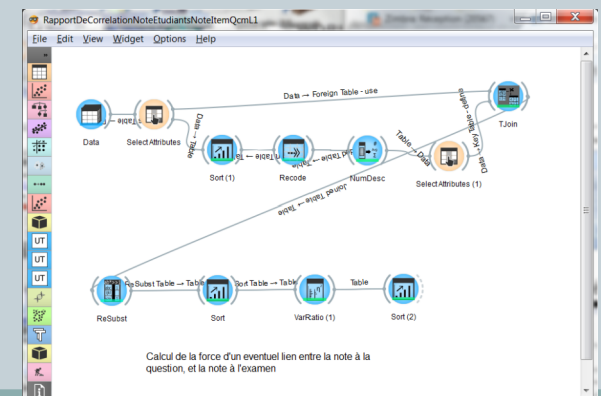
Data life cycle and Operator life cycle meets at Analysis Process and contribute to improve Data, Operator & Analysis Process

- Raw Data for computing R^2

$$R^2 = \frac{\sum_{i=1}^n (\hat{y}_i - \bar{y})^2}{\sum_{i=1}^n (y_i - \bar{y})^2}$$

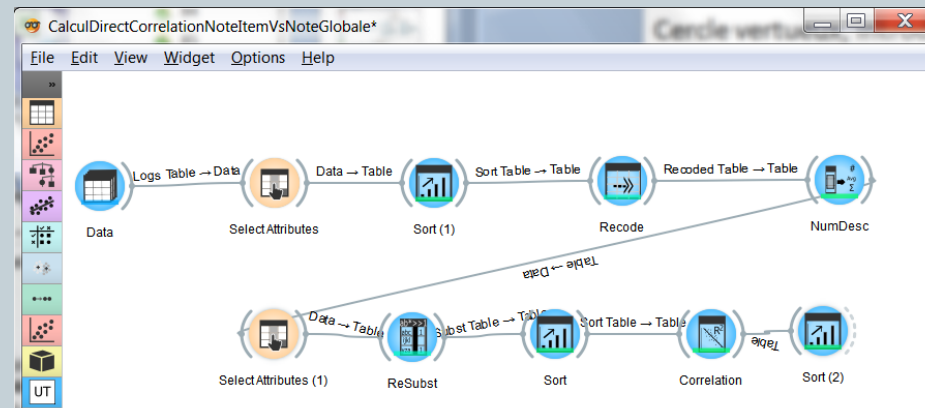


- New Operator for computing intermediate function => Computing of R^2

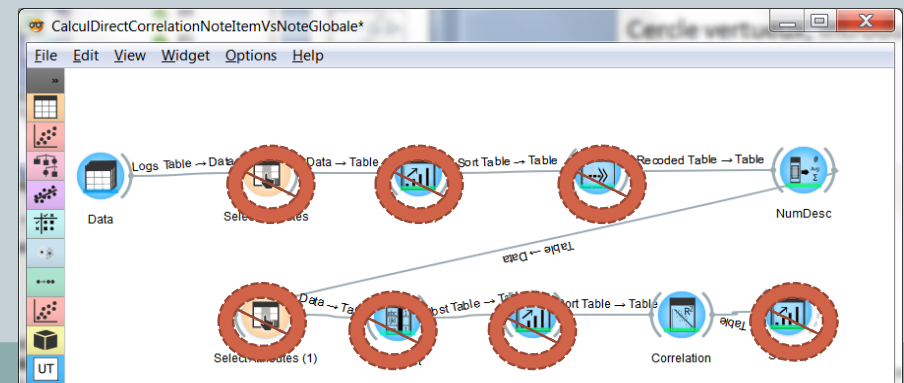


Data life cycle and Operator life cycle meets at Analysis Processes

- New Improved Data obtained from first part of the Analysis Process => Computing of R^2



- Next ?
Improved Operators with select/sort/... functions => computing of R^2



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<https://undertracks.imag.fr>

Mandran N., Ortega M., Luengo V., Bouhineau, D. “DOP8_Cycle: Merging both data and analysis operators life cycles for Technology Enhanced Learning”, LAK '15, March 16 – 20, 2015, Poughkeepsie, NY, USA.

Denis Bouhineau, Vanda Luengo, Nadine Mandran, Michael Ortega, Claire Wajeman, Open platform to model and capture experimental data in Technology enhanced learning systems. *Workshop Data Analysis and Interpretation for Learning Environments*, Autrans, France, 2013.

Denis Bouhineau, Sébastien Lalle, Vanda Luengo, Nadine Mandran, Michael Ortega, Claire Wajeman. Share data treatment and analysis processes in Technology enhanced learning. *Workshop Data Analysis and Interpretation for Learning Environments*, Autrans, France, 2013.