



Declare4Py overview

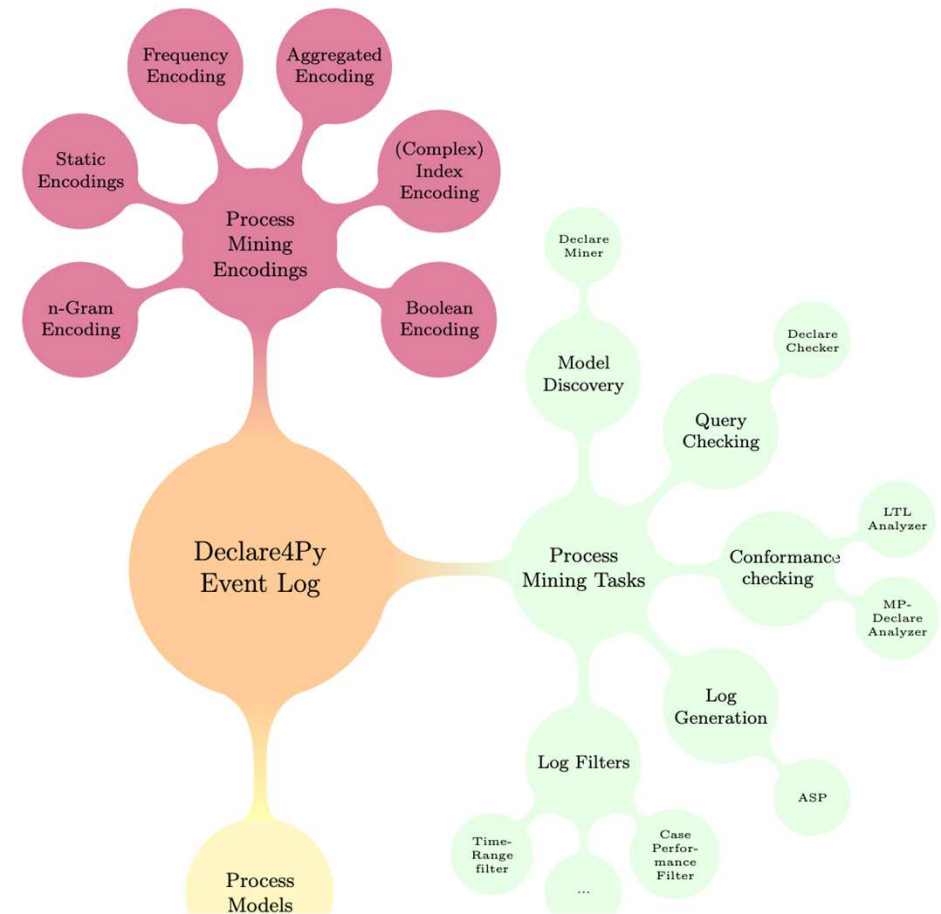
What is Declare4Py?

- A Python library that supports Declarative Process Mining tasks
- <https://github.com/ivanDonadello/Declare4Py>



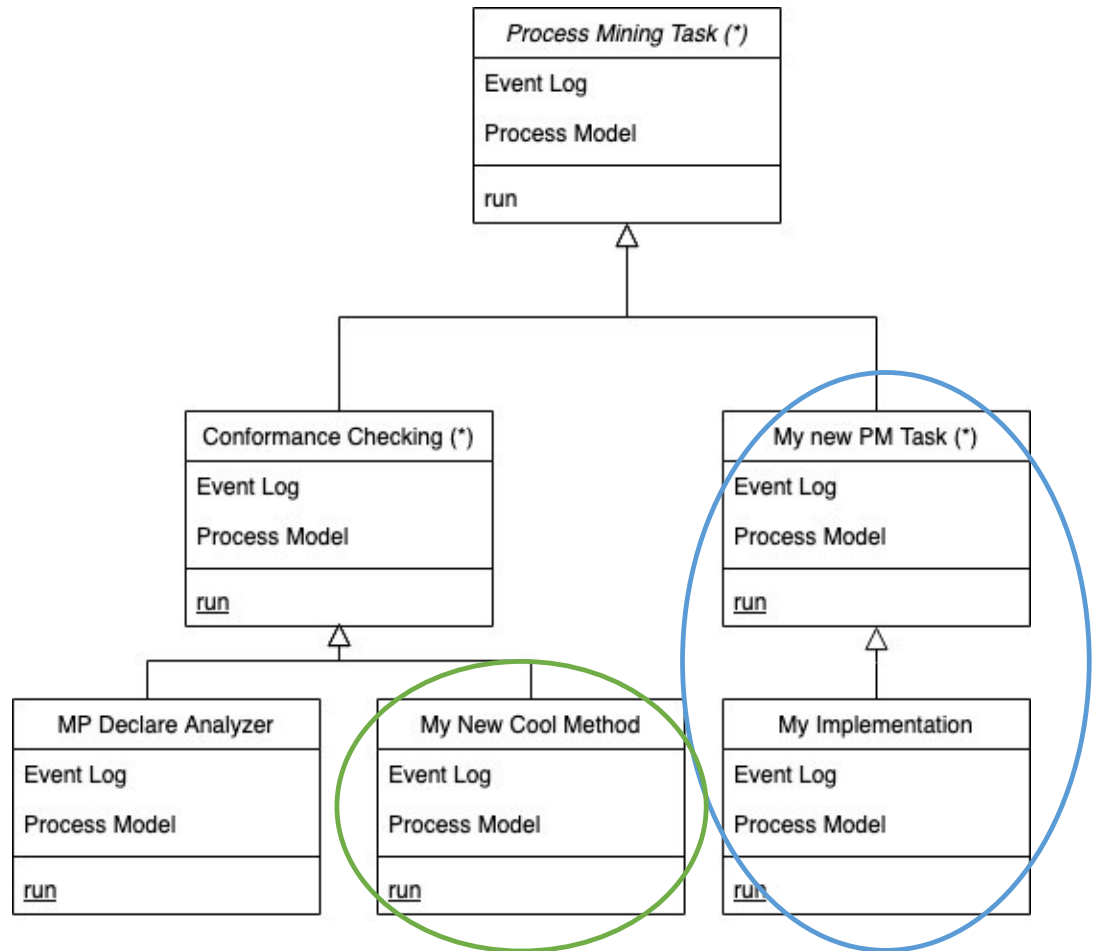
What is Declare4Py?

- Main concepts
 - Event Log
 - Process Model
 - Process Mining Tasks:
 - Conformance checking
 - Model discovery
 - ...
- Support for
 - log encoding (for ML tasks)
 - Log filtering



What is Declare4Py?

- Is an easy extendable library for:
 - new Process Mining tasks
 - new implementations of the already defined Process Mining tasks
- You just need to extend the existing abstract classes





**Declare4Py in
action**

Declare4Py in Action (Support for)

- Event logs
 - Basic log operations (e.g., load and save xes, extract traces/payloads)
 - Log filtering
 - Log encoding for ML applications
- Process Models
 - Declarative (MP-Declare, LTLf)
 - Procedural (work in progress)
- Process Mining tasks
 - Conformance Checking (for MP-Declare and LTLf models)
 - Query Checking (for MP-Declare models)
 - Model Discovery (for Declare models)
 - Log Generation (for MP-Declare models)

Declare4Py in Action

Live code session