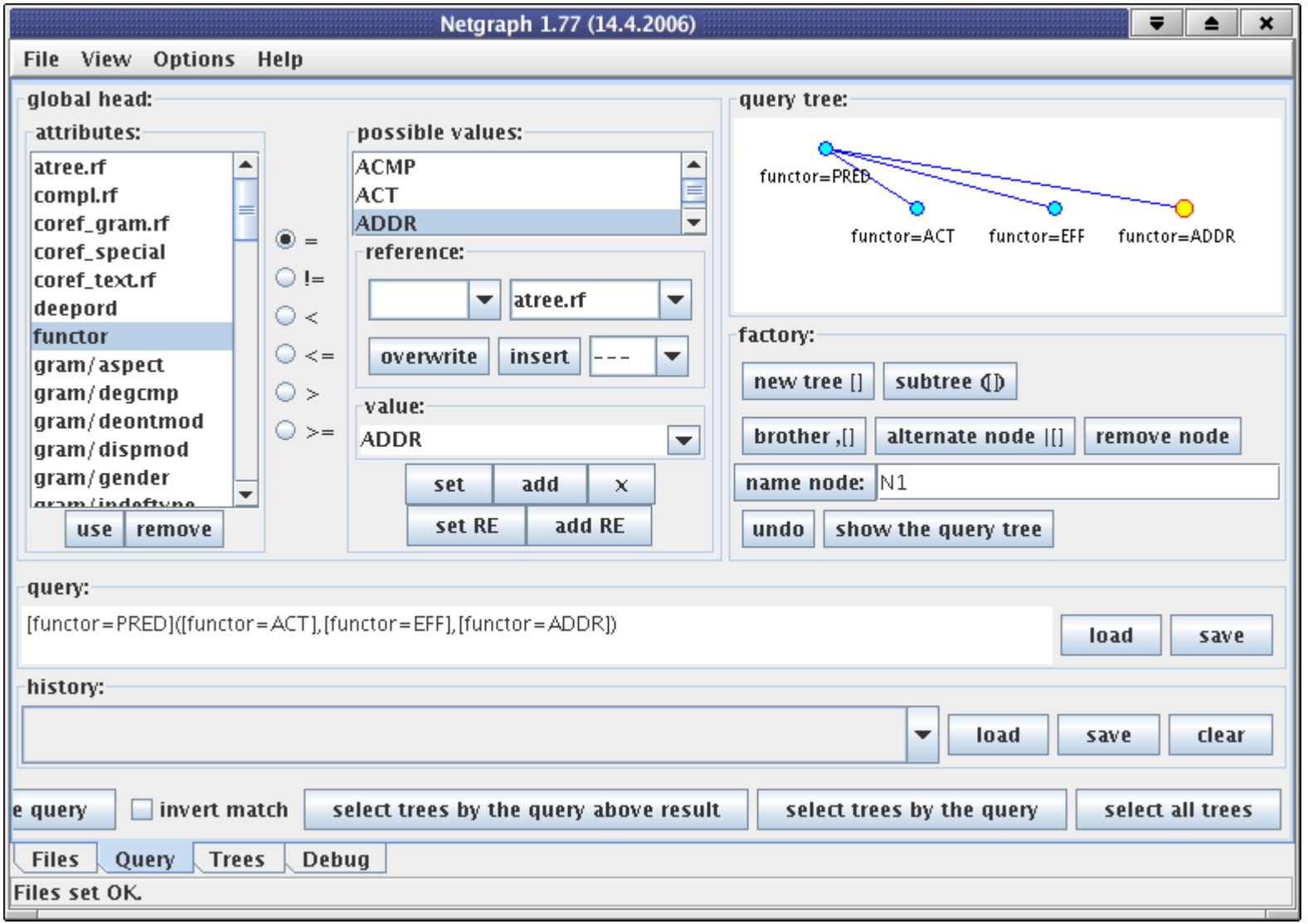
Netgraph – a Tool for Searching in Prague Dependency Treebank 2.0

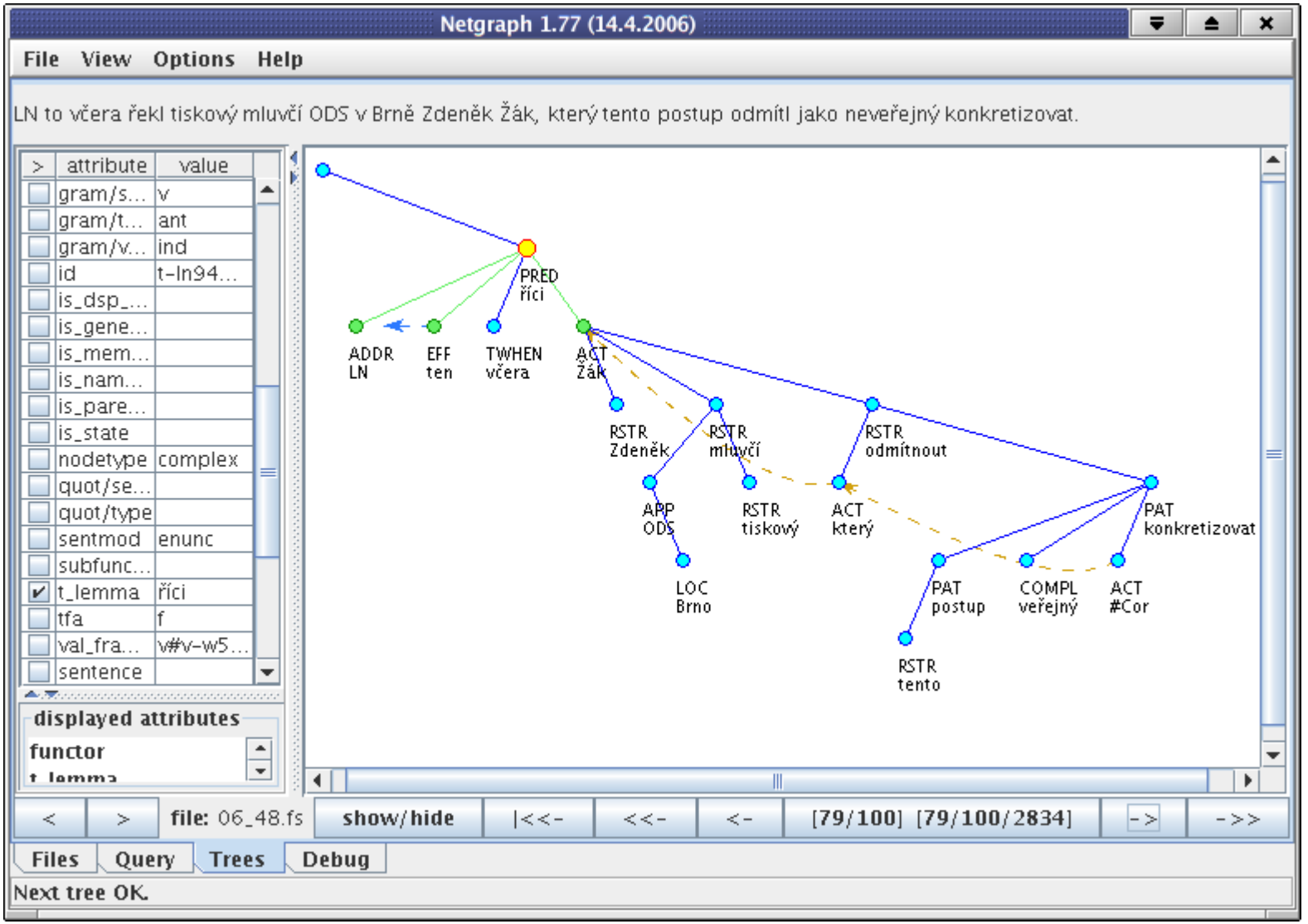
- Client–server architecture
- Authentication of users
- Subcorpus definition
- Graphic creation of a query
- Searching in the treebank according to the query
- Viewing the result trees
- Basic statistics

A Query Creation



[functor=PRED]([functor=ACT],[functor=EFF],[functor=ADDR])

Viewing the Result

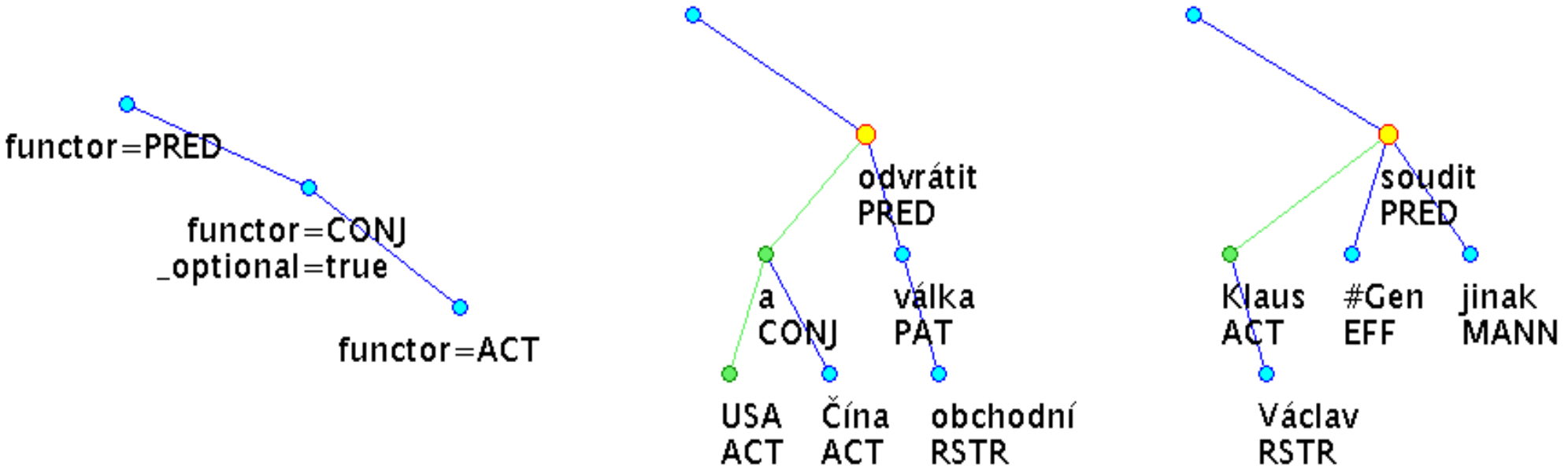


- Different order of nodes; additional sons of the PREDicate

Meta-attributes

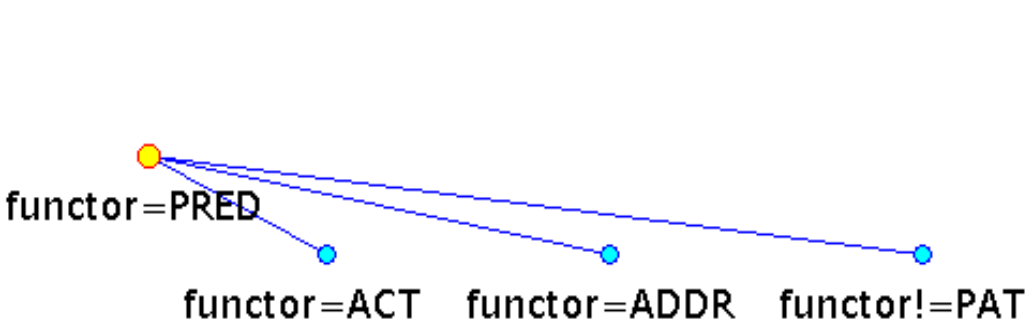
- Additional power to the query language
- Attributes not present in the corpus
- Treated like normal attributes
  - **_transitive** *(transitive edge)*
  - **_optional** *(optional node)*
  - **_#sons** *(exact number of sons)*
  - **_depth** *(distance from the root)*
  - **...**

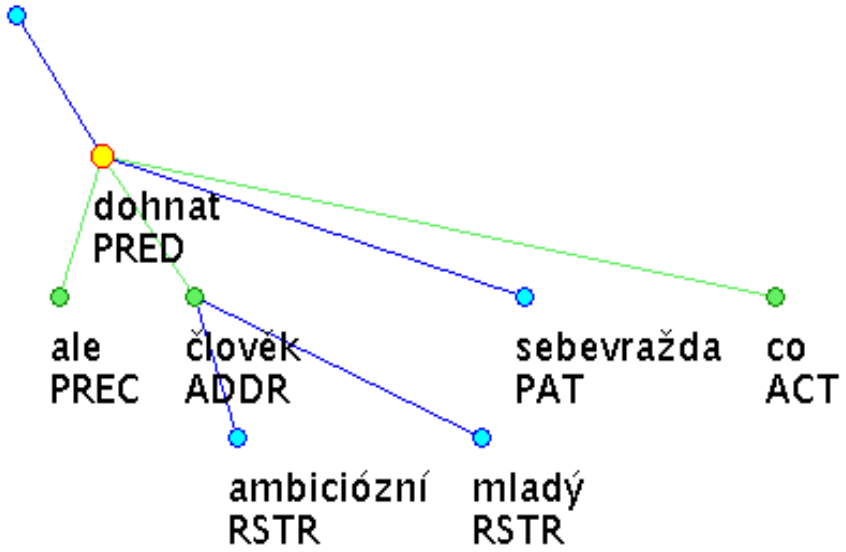
An Example Query



- A query with optional CONJunction node
- Two possible types of result – with and without the optional node

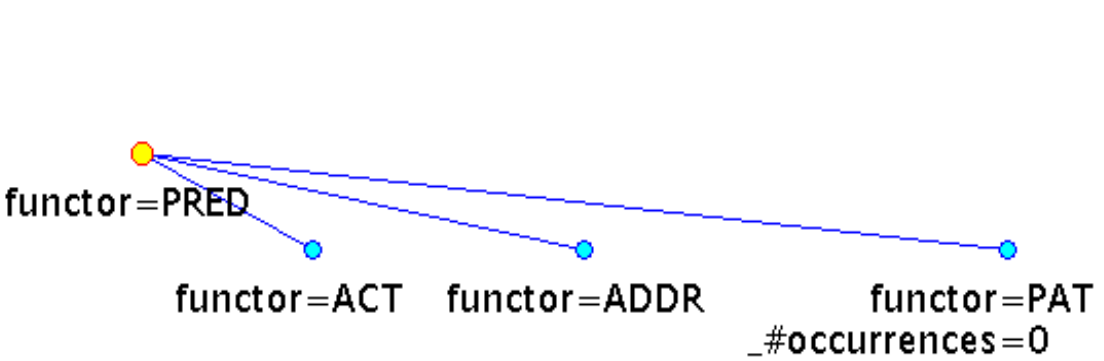
An Example of a Wrong Query

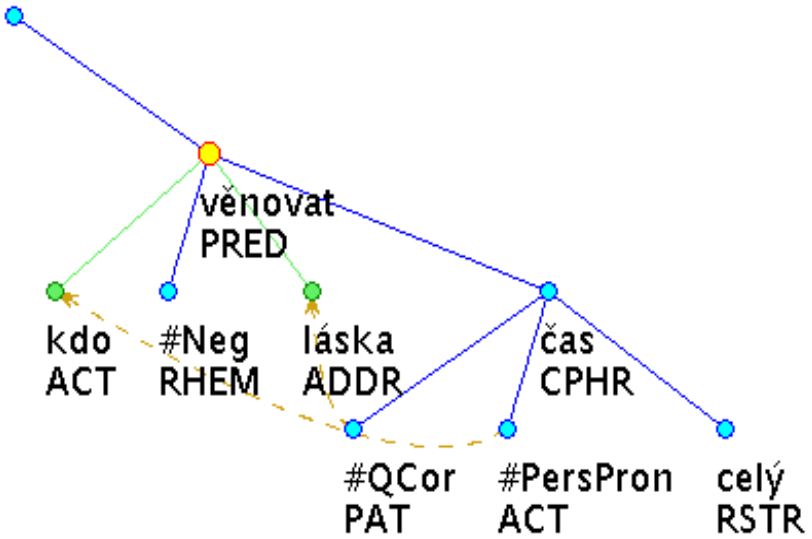




- A wrong attempt to set negation in the query
- We do not want the PATient there at all
- But the query node matches with PREC

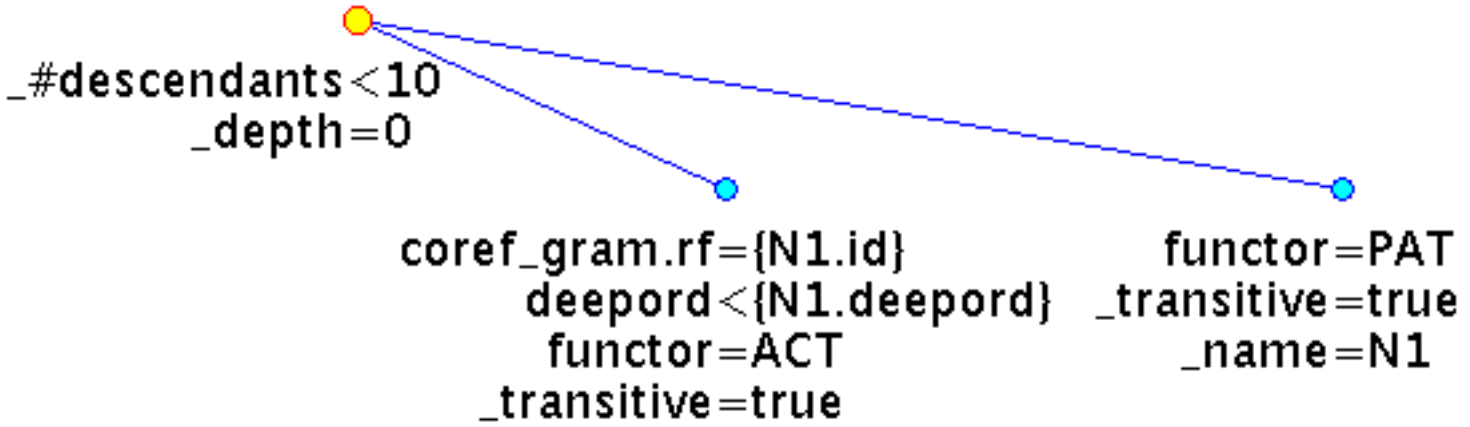
A Correct Negation





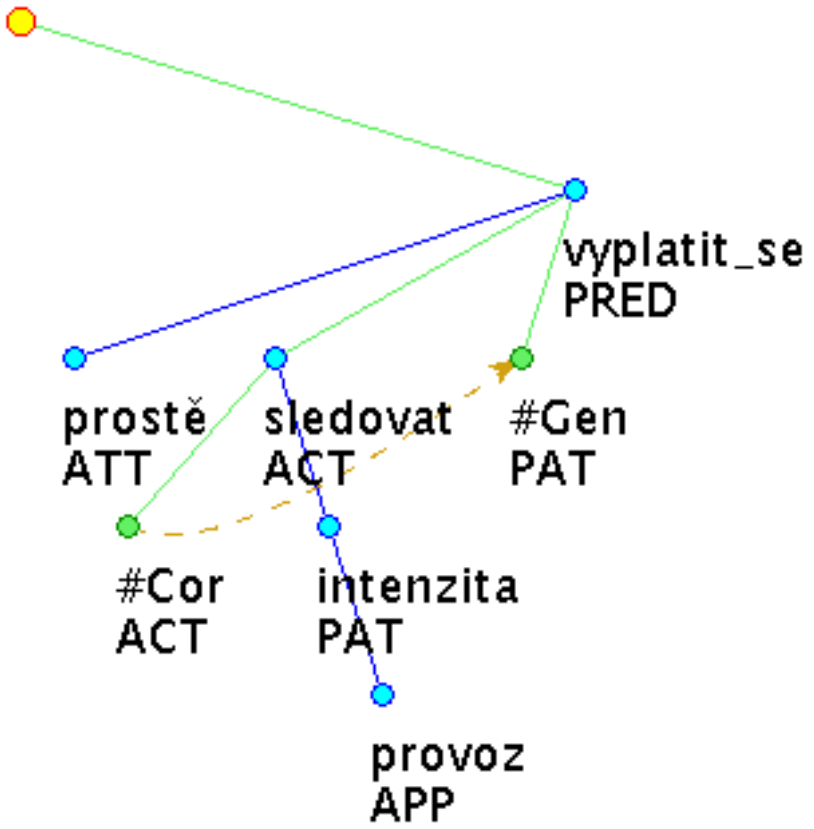
- A correct way how to set negation in the query
- We define that there are exactly zero PATients as sons of the PREDicate

Yet Another Example Query



- Looking for a small tree (root of the query)
- PATient is a coreferencial node of ACTor and is on the left side from the ACTor

A Result Tree



http://quest.ms.mff.cuni.cz/netgraph