Netgraph – a Tool for Searching in Prague Dependency Treebank 2.0

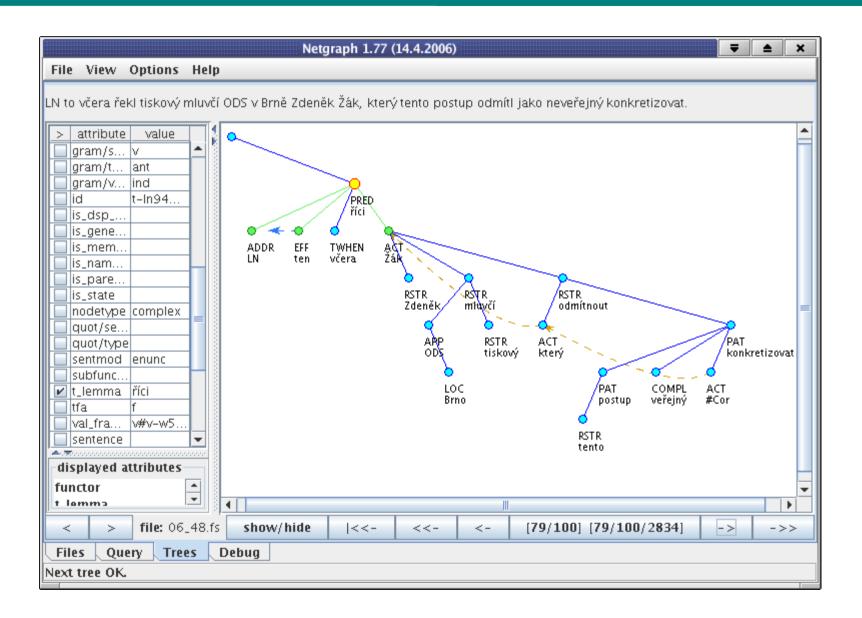
- Client-server architecture
- Authentication of users
- Subcorpus definition
- Graphic creation of a query
- Searching in the treebank according to the query
- Viewing the result trees
- Basic statistics

#### A Query Creation

	Netgraph 1.77 (14.4.2006) 🗾 🗾 🛋 🗙
File View Options Hel	lp
global head: attributes: atree.rf compl.rf coref_gram.rf coref_special coref_text.rf deepord functor gram/aspect gram/degcmp gram/degcmp	<pre>possible values: ACMP ACT ADDR ifunctor=ACT functor=EFF functor=ADDR functor=ACT functor=EFF functor=ADDR factory: new tree [] subtree (]) brother ,[] alternate node [[] remove node name node: N1 undo show the query tree</pre>
query:   [functor = PRED]([functor = ACT], [functor = EFF], [functor = ADDR])     history:   v   load   save   clear      e query   invert match   select trees by the query above result   select trees by the query   Files   Query   Trees	
Files set OK.	

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

# Viewing the Result

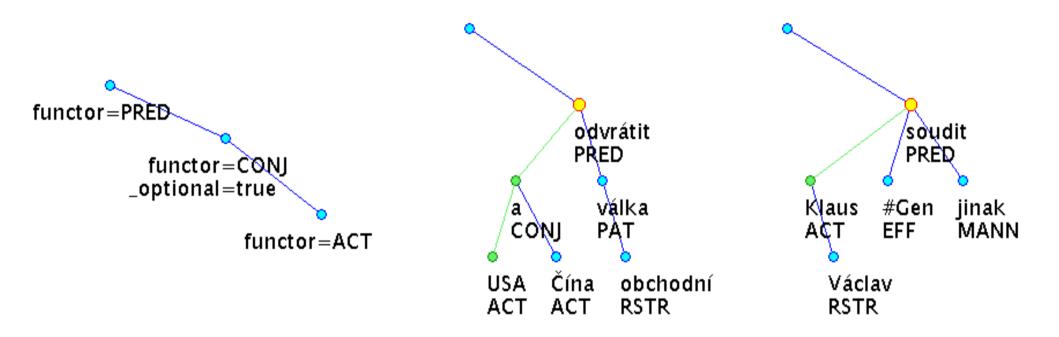


Different order of nodes; additional sons of the PREDicate

#### Meta-attributes

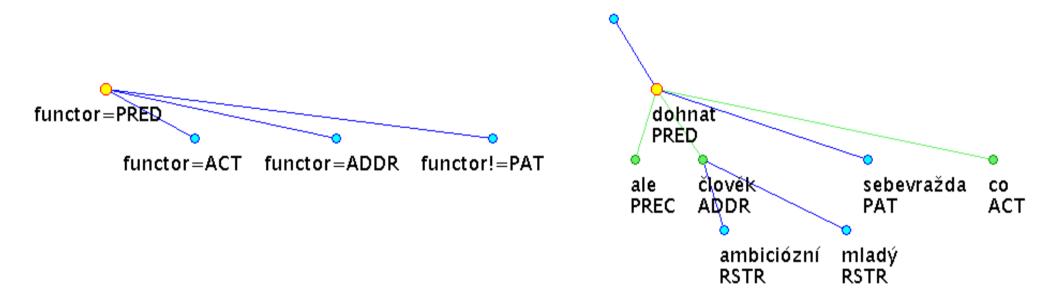
- Additional power to the query language
- Attributes not present in the corpus
- Treated like normal attributes
  - \_transitive (transitive edge)
  - \_optional (optional node)
  - \_#sons (exact number of sons)
  - \_depth (distance from the root)

# An Example Query



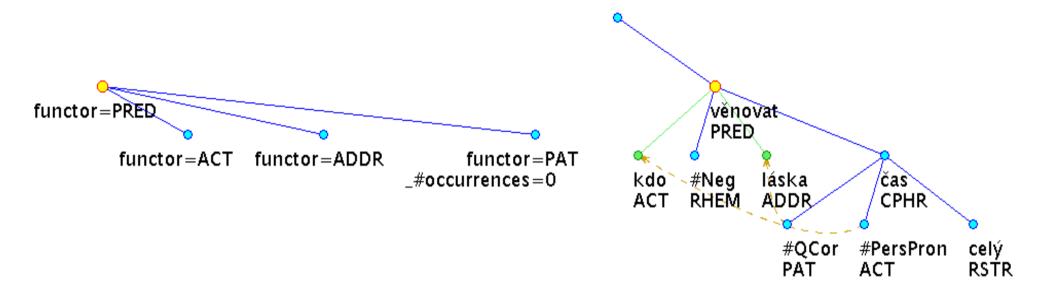
- A query with optional CONJunction node
- Two possible types of result with and without the optional node

# An Example of a Wrong Query



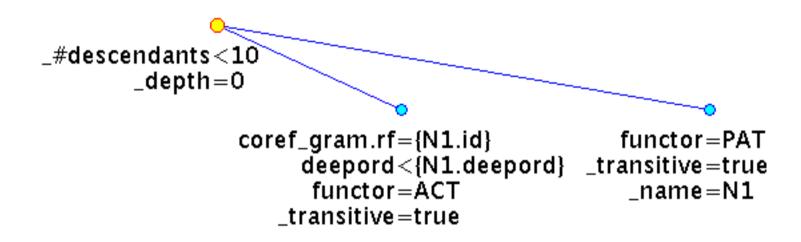
- A wrong attempt to set negation in the query
- We do not want the PATient there at all
- But the query node matches with PREC

# A Correct Negation



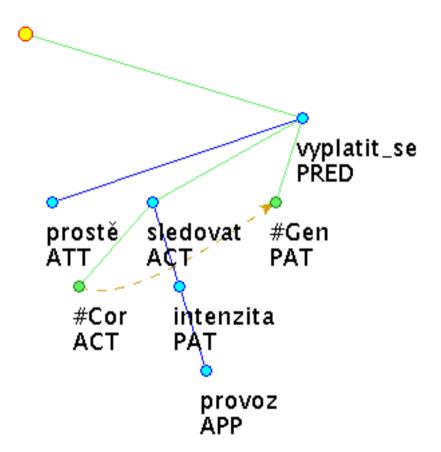
- A correct way how to set negation in the query
- We define that there are exactly zero PATients as sons of the PREDicate

#### 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