



ANNIS: Search and Visualization in Multilayer Linguistic Corpora

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A brief introduction

- **Search and Visualization in Multilayer Linguistic Corpora**
 - Imports existing corpora
 - Corpora already have to be annotated, ANNIS only uses what's there
 - No NLP!



A brief introduction

- **Search and Visualization in Multilayer Linguistic Corpora**
 - Makes corpora searchable
 - One query language for all corpora (AQL)
 - Abstraction over linguistic data necessary
 - But: Corpora have different annotations → query has to match the annotations



A brief introduction

- **Search and Visualization in Multilayer Linguistic Corpora**
 - Displays corpora
 - Many visualizations available
 - Corresponding to type of annotation (syntactic trees, phrase trees (RST), grids, coreferences ...)



A brief introduction

- What ANNIS cannot do
 - Does not know how to speak natural language
→ so you have to learn AQL



A brief introduction

- What ANNIS cannot do
 - Does not know how to speak natural language
→ so you have to learn AQL
 - ANNIS does not know any semantics
→ „NN“, „NP“, „sentence“, „word“, „my favorite annotation“ ... are just sequences of characters



A brief introduction

- What ANNIS cannot do
 - Does not know how to speak natural language
→ so you have to learn AQL
 - ANNIS does not know any semantics
→ „NN“, „NP“, „sentence“, „word“, „my favorite annotation“ ... are just sequences of characters
 - You need to be exact
→ e.g. „POS“ != „pos“ and „NN“ != „NN “ (regard the blank)



ANNIS basics



ANNIS: Search and Visualization in Multilayer Linguistic Corpora

The screenshot shows the ANNIS search interface with several key components highlighted:

- Enter query**: A red box highlights the search input field at the top center.
- Virtual Keyboard (e.g. arabic)**: A red box highlights the keyboard icon in the toolbar.
- Previous queries**: A red box highlights the "History" dropdown menu.
- Corpus list**: A red box highlights the list of available corpora on the left.

The interface includes a toolbar with "About ANNIS", "Report Problem", "Help us to make ANNIS better!", "not logged in", and "Login". The main area displays a search history table with columns: Example Query, Description, and open corpus browser. The table contains the following rows:

Example Query	Description	open corpus browser
lemmal="sein"	search for all words with the lemma "sein" in documents	pcc2
tok!="ist"	search for all words that are not "ist"	pcc2
/.*lich/	search for words ending with "lich" (regular expression)	pcc2
"statisch"	search for the word "statisch"	pcc2
exmaralda	search for all Inf-Stat annotations with the value in the "exmaralda" space	pcc2

The left sidebar also includes "Query Builder", "Help/Ex", "Tutorial", and "Example Queries" buttons. The bottom left shows a "Corpus List" tab with a "Search Options" button, a "Visible: All" dropdown, and a "Filter" table listing corpora by Name, Texts, and Tokens. The "pcc2" corpus is currently selected.



ANNIS: Search and Visualization in Multilayer Linguistic Corpora

Help us to make ANNIS better!

not logged in [Login](#)

cat="NP"

Query Builder

Example Queries

Sample queries (corresponding to corpus)

Example Query	Description	open corpus browser
lemma="sein" & meta::Genre="Sport"	search for all words with the lemma "sein" in documents from the Genre "Sport"	pcc2
exmaralda:Inf-Stat="new"	search for all Inf-Stat annotations with the value "new" in the "exmaralda" namespace	pcc2
"statisch"	search for the word "statisch"	pcc2
lemmal!="sein"	search for all words where the lemma is not "sein"	pcc2
tok!="ist"	search for all words that are not "ist"	pcc2
/.*lich/	Search for words ending with "lich" (regular expression)	pcc2



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Help us to make ANNIS better!

not logged in | Login

cat="NP"

Query result

Search More ▾ History ▾

41 matches in 2 documents

Corpus List Search Options

Visible: All

Filter

Name	Texts	Tokens
pcc2	2	399
RIDGES_Herbology_\	22	122.698
RIDGES_Herbology_\	29	154.266
Ridges_Herbology_Ve	13	60.811

Help/Examples Query Result

Base text Token Annotations

1 Path: pcc2 > 11299 (tokens 1 - 10) left context: 5 right context: 5

Feigenblatt Die Jugendlichen in Zossen wollen ein Mi
Feigenblatt der jugendliche in Zossen wollen ein Mi
Nom.Sg.Neut Nom.PI.* Nom.PI.* -- Dat.Sg.Neut 3.PI.Pres.Ind Acc.Sg.Neut Ac
NN ART NN APPR NE VMFIN ART NN

+ dependencies (arches)
+ information structure (grid)
+ discourse referents (grid)
+ constituents (tree)

Visualizations



ANNIS: Search and Visualization in Multilayer Linguistic Corpora

The screenshot shows the ANNIS interface with several key components:

- Corpus metadata window (highlighted with a red box and arrow):** A large central window titled "Base text Token Annotations" and "Corpus information for pcc2 (ID: 5664)". It contains a "Metadata" section with details about the selected corpus (pcc2) and an "Available annotations" section listing various linguistic annotations.
- Corpus list (highlighted with a red box and arrow):** A sidebar on the left displaying a list of available corpora. The "pcc2" corpus is currently selected, indicated by a blue background.
- Search results:** Below the corpus list, it says "41 matches in 2 documents".
- Toolbar:** Includes buttons for "Query Builder" and "Keyboard".
- Bottom navigation:** A row of words and symbols: Die, Jugendlichen, in, Zossen, wollen, ein, Musikcafé, ., Das, forderten, sie.

Annotations in the "Available annotations" section (partial list):

- exmaralda:Focus_newInf="nf-unsol"
- exmaralda:heading="heading"
- exmaralda:Inf-Stat="giv-active"
- exmaralda:NP="NP"
- exmaralda:PP="PP"
- exmaralda:Sent="s"
- exmaralda:Topic="ab"
- mmax:ambiguity="not_ambig"
- mmax:anaphor_type="anaphor_nominative"
- mmax:complex_np="no"
- mmax:dir_speech="text_level"
- mmax:grammatical_role="other"
- mmax:np_form="defnp"
- mmax:phrase_type="np"
- mmax:referentiality="discourse-new"
- mmax:type="none"
- ret-kind="segment"



ANNIS: Search and Visualization in Multilayer Linguistic Corpora

Document metadata

Path: pcc2 > 11299 (tokens 1 - 10)

Feigenblatt Die Jugendlichen in Zossen wollen ein
Feigenblatt der jugendliche in Zossen wollen ein

Nom.Sg.Neut N Acc.Sg.Neut
NN ART

- dependencies (arch.)
- information structure
- discourse referents
- constituents (tree)

Info for salt/pcc2/11299



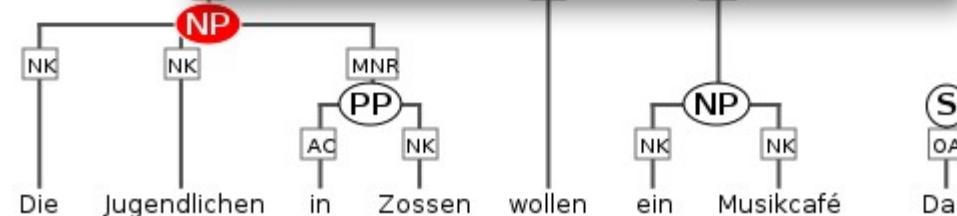
Document metadata window

Metadata

document: 11299

Name	Value
Dokumentname	pcc-11299
Genre	Politik
Titel	Feigenblatt

corpus: pcc2





- Basic principles of AQL (ANNIS Query Language)
 - Attributes and values
 - Searching for exact character sequences
 - Searching for patterns
 - Combinatory search



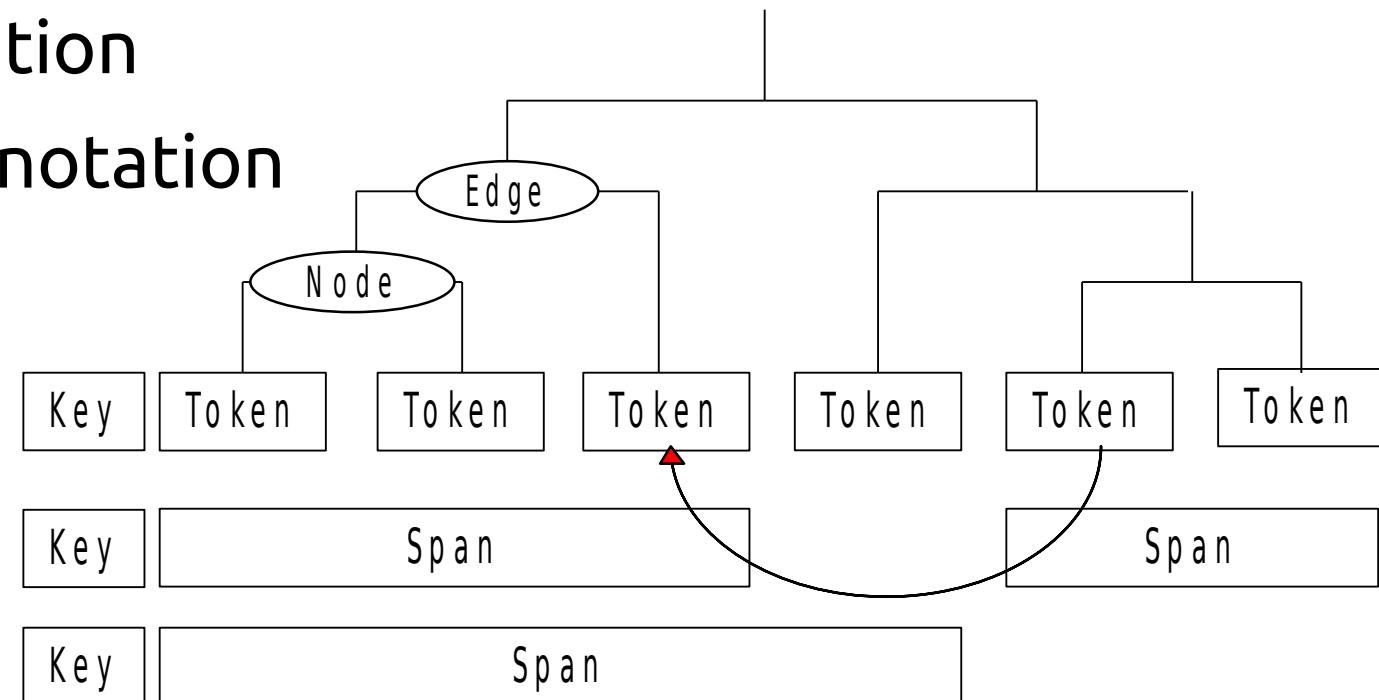
- Corpus for demonstration: pcc2 (a sub corpus of pcc)

https://korpling.german.hu-berlin.de/annis3/#_c=cGNjMg

- Potsdam Commentary Corpus
 - German Newspaper commentaries
'Märkische Allgemeine Zeitung'
<https://www.ling.uni-potsdam.de/acl-lab/Forsch/pcc/pcc.html>
 - Multiple annotations

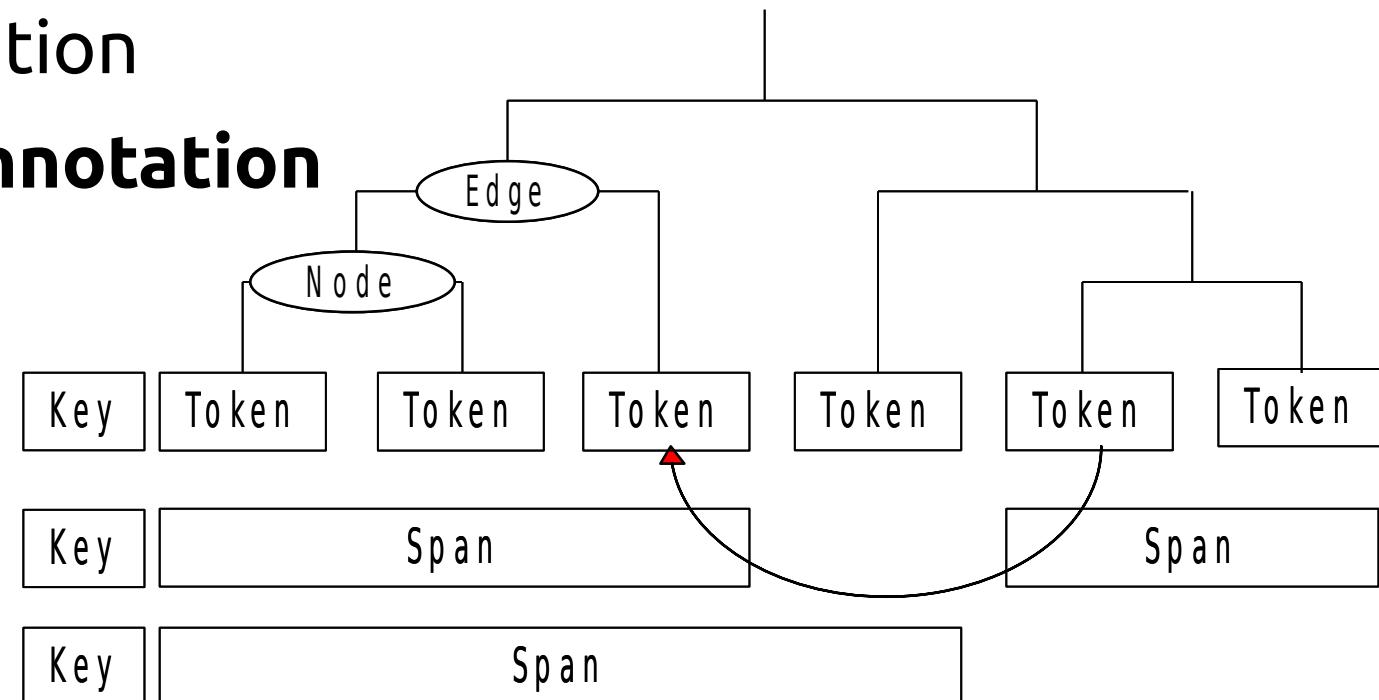


- Different types of annotations
 - Token annotation
 - Span annotation
 - Pointing relation
 - Hierarchy annotation
(trees)



ANNIS basics

- Different types of annotations
 - **Token annotation**
 - **Span annotation**
 - Pointing relation
 - **Hierarchy annotation (trees)**





- Token annotation
 - Exact sequence

searching for a word form

"Jugendlichen"

"jugendlichen"



- Token annotation
 - Exact sequence

searching for a word form

"Jugendlichen" 3 hits

"jugendlichen" 0 hits

→ **tok="jugendlichen"**



- Token annotation
 - Exact sequence

searching for an **exact** part of speech tag

pos	=	"NN"
-----	---	------

attribute value

- Attributes can have more than one value
- Searching for all values of an attribute



- Token annotation
 - Exact sequence

searching for an exact part of speech tag

pos="NN"

pos="ADJA"



- Token annotation
 - Exact sequence

searching for an exact part of speech tag

pos="NN" 62 hits

pos="ADJA" 18 hits

searching for all values of an attribute

pos 399 hits



- Span annotation
 - Exact sequence

searching for sentences

Sent="s"



- Span annotation
 - Exact sequence

searching for sentences

Sent="s" 28 hits



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Metadata

- **Sent="s"** 28 hits
 - necessary to know which annotations are in a corpus

Visible:	All	<input type="button" value=""/>
pcc		
Name	▲ Texts Tokens	<input type="button" value=""/>
pcc2	2 399	<input type="button" value=""/> <input type="button" value=""/>

Corpus information for pcc2 (ID: 5664)

Metadata		Available annotations	
Select corpus/document:		Name	
pcc2		Name	Value
		URL	link
		annotation_description	POS, lemma, morphology, constituent and dependency syntax, information structure, coreference, rhetorical structure, article headings
		annotation_levels	pos;lemma;morph;Inf-Stat;Focus_newInfl;PP;NP;Topic;Sent;Foc_(for dominance edges);dep:func (for dependency pointing relations);anaphor_antecedent (pointing relations)
		full_name	Potsdam Commentary Corpus (sample of 2 documents)
		language	German
		source	Project D1, SFB 632
		version	6.0

Available annotations

Name	Example (click to use query)	URL
exmaralda:Focu	exmaralda:Focus_newInf="nf-unsol"	<input type="button" value=""/>
exmaralda:head	exmaralda:heading="heading"	<input type="button" value=""/>
exmaralda:Inf-S	exmaralda:Inf-Stat="giv-active"	<input type="button" value=""/>
exmaralda:NP	exmaralda:NP="NP"	<input type="button" value=""/>
exmaralda:PP	exmaralda:PP="PP"	<input type="button" value=""/>
exmaralda:Sent	exmaralda:Sent="s"	<input type="button" value=""/>
exmaralda:Topic	exmaralda:Topic="ab"	<input type="button" value=""/>
mmax:ambiguity	mmax:ambiguity="not_ambig"	<input type="button" value=""/>
mmax:anaphor_	mmax:anaphor_type="anaphor_nomi	<input type="button" value=""/>
mmax:complex_	mmax:complex_np="no"	<input type="button" value=""/>
mmax:dir_speec	mmax:dir_speech="text_level"	<input type="button" value=""/>
mmax:grammati	mmax:grammatical_role="other"	<input type="button" value=""/>
mmax:np_form	mmax:np_form="defnp"	<input type="button" value=""/>
mmax:phrase_ty	mmax:phrase_type="np"	<input type="button" value=""/>
mmax:referentie	mmax:referentiality="discourse-new"	<input type="button" value=""/>
mmax:type	mmax:type="none"	<input type="button" value=""/>
rst:kind	rst:kind="segment"	<input type="button" value=""/>

Edge Annotations

Edge Types

Meta Annotations

Link to corpus: https://korpling.german.hu-berlin.de/annis3/#_c=cGNjMg



- Token annotation
 - Patterns
 - . matches any single character
 - * zero or more of the preceding element
- searching for the beginning a of word

/Jugend.*/

/jugend.*/



- Token annotation

- Patterns

- . matches any single character
 - * zero or more of the preceding element

searching for the beginning a of word

/Jugend.*/

5 hits ("Jugendlichen" 3 hits)

Jugendlichen Jugendliche

/jugend.*/

0 hits ("jugendlichen" 0 hits)



- Token annotation
 - patterns

searching for **all** nouns

pos=/N./

includes NN & NE

searching for **all** adjectives

pos=/ADJ./

includes ADJA & ADJD



- Token annotation
 - patterns

searching for **all nouns**

pos=/N./

73 hits (pos="NN" 62 hits)

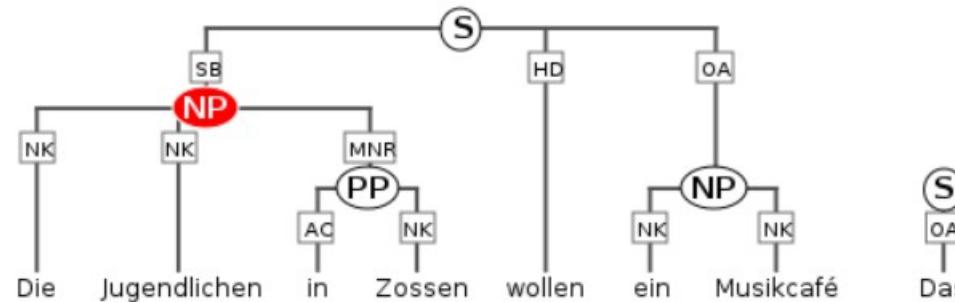
searching for **all adjectives**

pos=/ADJ./

32 hits (pos="ADJA" 18 hits)



- Span annotation
searching for all NPs
- cat="NP"** 41 hits (pos="NN" 62 hits)
- e.g. *Die Jugendlichen in Zossen*





- Relations between attributes

searching for all NPs which contain a preposition

`cat="NP"`

41 hits

`pos="APPR"`

19 hits

e.g. *Die Jugendlichen in Zossen*

→ no relation between the two information!



- Relations between attributes

searching for **all** NPs which contain a preposition

`cat="NP"`

#1

`pos="APPR"`

#2

e.g. *Die Jugendlichen in Zossen*

→ NP includes APPR

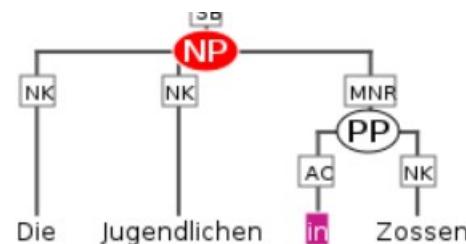


- Relations between attributes

searching for **all** NPs which contain a preposition

```
cat="NP" &  
pos="APPR" &  
#1_i_#2
```

e.g. *Die Jugendlichen in Zossen*

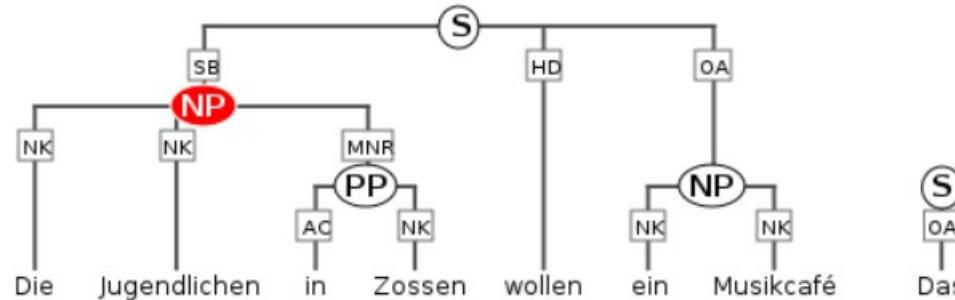


Hierarchy relations

- Relations between attributes
searching for **all NPs which are objects**

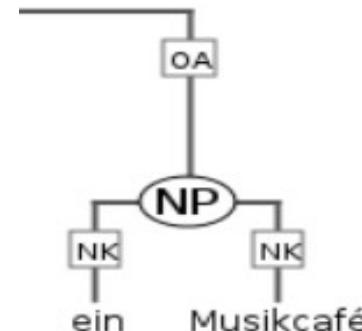
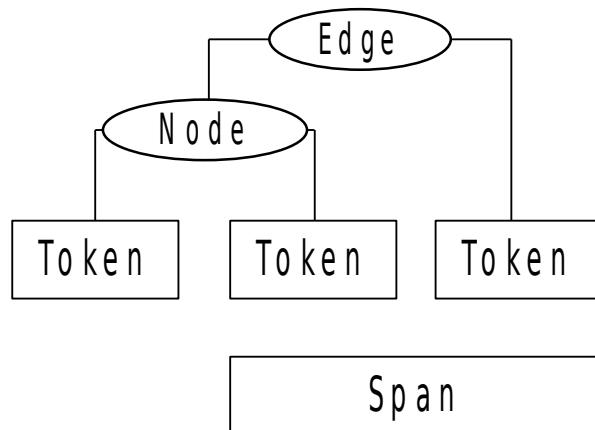
cat="NP"

e.g. *Die Jugendlichen in Zossen* -->subject!



Hierarchy relations

- Relations between attributes
 - searching all **NPs** which are **objects**
 - **NP** → node annotation
 - **OA** → edge annotation





- Relations between attributes
searching all NPs which are objects

`cat="NP"`

the syntactic function in the tree

`func="OA"`

→ Note: At least there are two elements which relate in a way to each other!

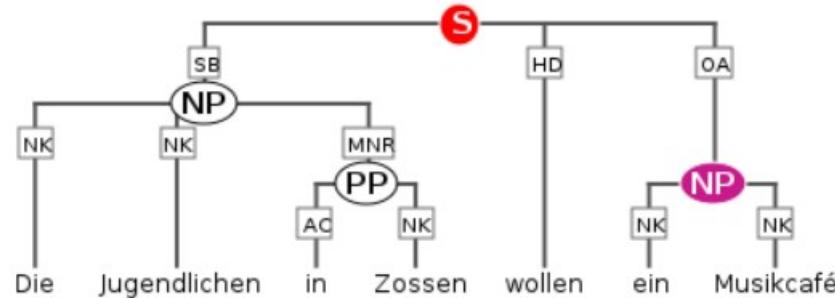
Hierarchy relations

- Relations between attributes

searching all NPs which are objects

```
node & cat="NP" & #1 >[func="OA"] #2
```

e.g. *ein Musikcafé* -->object!





- Relations we used:

A _i_ B

A includes B

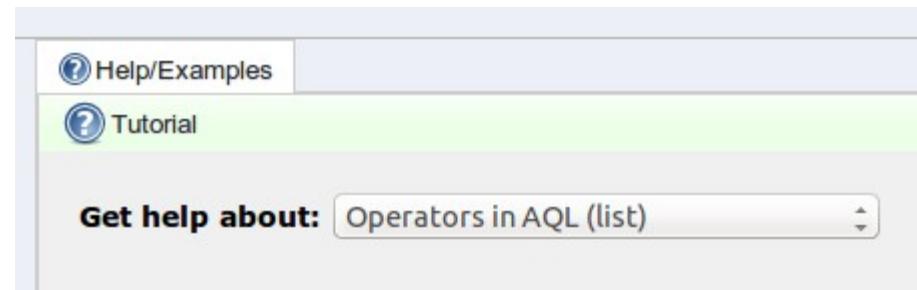
A > B

A dominates B

A >[func="OA"] B

A dominates B and B is an object

The full list of relations can be found in ANNIS





ANNIS: Search and
Visualization in
Multilayer Linguistic
Corpora

What's new in
ANNIS

What's new in ANNIS

version 3.1.7

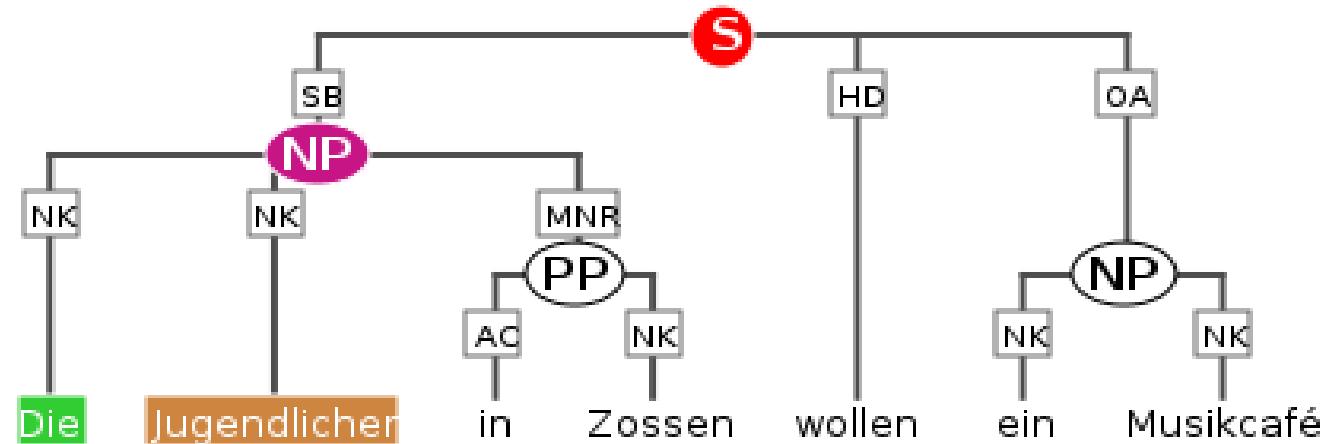


- Simplified syntax (AQL)
- Frequency analysis (Visualisierung)
- Expand match context (Visualisierung)
- Equality and Inequality (AQL)
- Variables (AQL)
- Complex OR expression (AQL)
- Document browser (Visualisierung)
- CSV export (Visualisierung)
- Tooltip for corpus names (Visualisierung)
- Report problem (Visualisierung)

Simplified syntax

- Question:

„Die“ followed by „Jugendlichen“ both being dominated by a prepositional phrase which is dominated by a sentence



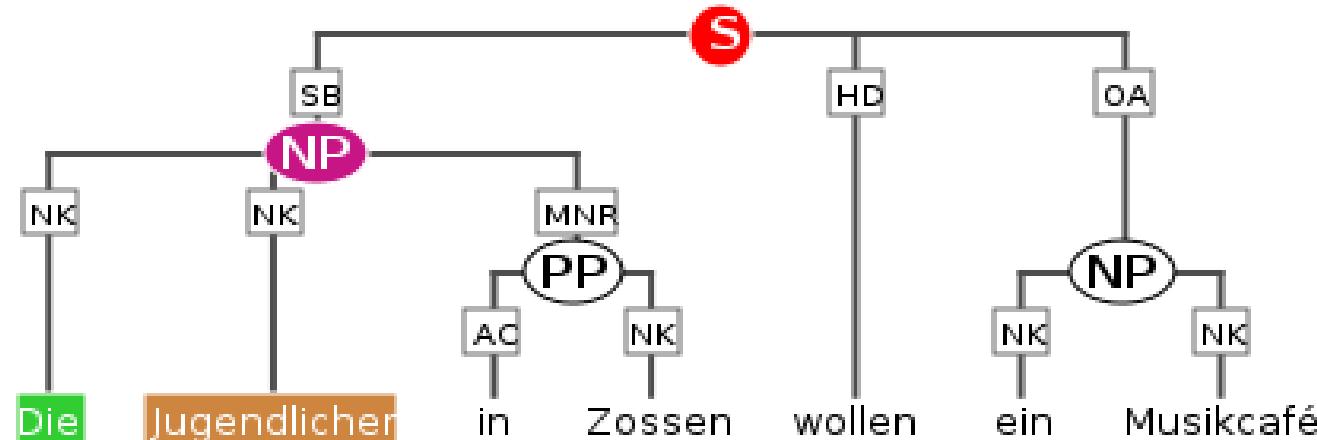
So far:

```
cat="S" & cat="NP" & "Die" & "Jugendlichen" & #1 > #2 & #2 > #3 & #2 > #4 & #3 . #4
```

Simplified syntax

- Question:

„Die“ followed by „Jugendlichen“ both being dominated by a prepositional phrase which is dominated by a sentence



So far:

`cat="S" & cat="NP" & "Die" & "Jugendlichen" & #1 > #2 & #2 > #3 & #2 > #4 & #3 . #4`

Simplified:

`cat="S" > cat="NP" > "Die" . "Jugendlichen" & #2 > #4`



Frequency analysis

- Question:
 - How many words tagged as „NN“, „ADJA“ or „ADV“ does a corpus contain?
 - What are the most frequent part-of-speech tags followed by a noun?
 - What are the most frequent part-of-speech tags in a prepositional phrase, which is in a sentence?
 - ...



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Frequency analysis

The screenshot shows the ANNIS interface with the following steps highlighted:

- An orange arrow points down from the search results area to the "Frequency Analysis" button in the search toolbar.
- An orange arrow points left from the "Frequency Analysis" button in the search toolbar to the "Frequency Analysis" tab in the main window.
- An orange arrow points left from the "Frequency Analysis" tab to the "Perform frequency analysis" button at the bottom of the main window.

Search Results Area (Left):

- Text input field: pos
- Buttons: Search, More ▾, History ▾
- Message: 399 matches in 2 documents
- Toolbar buttons: Export, Frequency Analysis
- Corpus List: pcc2, Potsdam_Commentary_
- Filter: Name, Texts, Tokens

Main Window (Right):

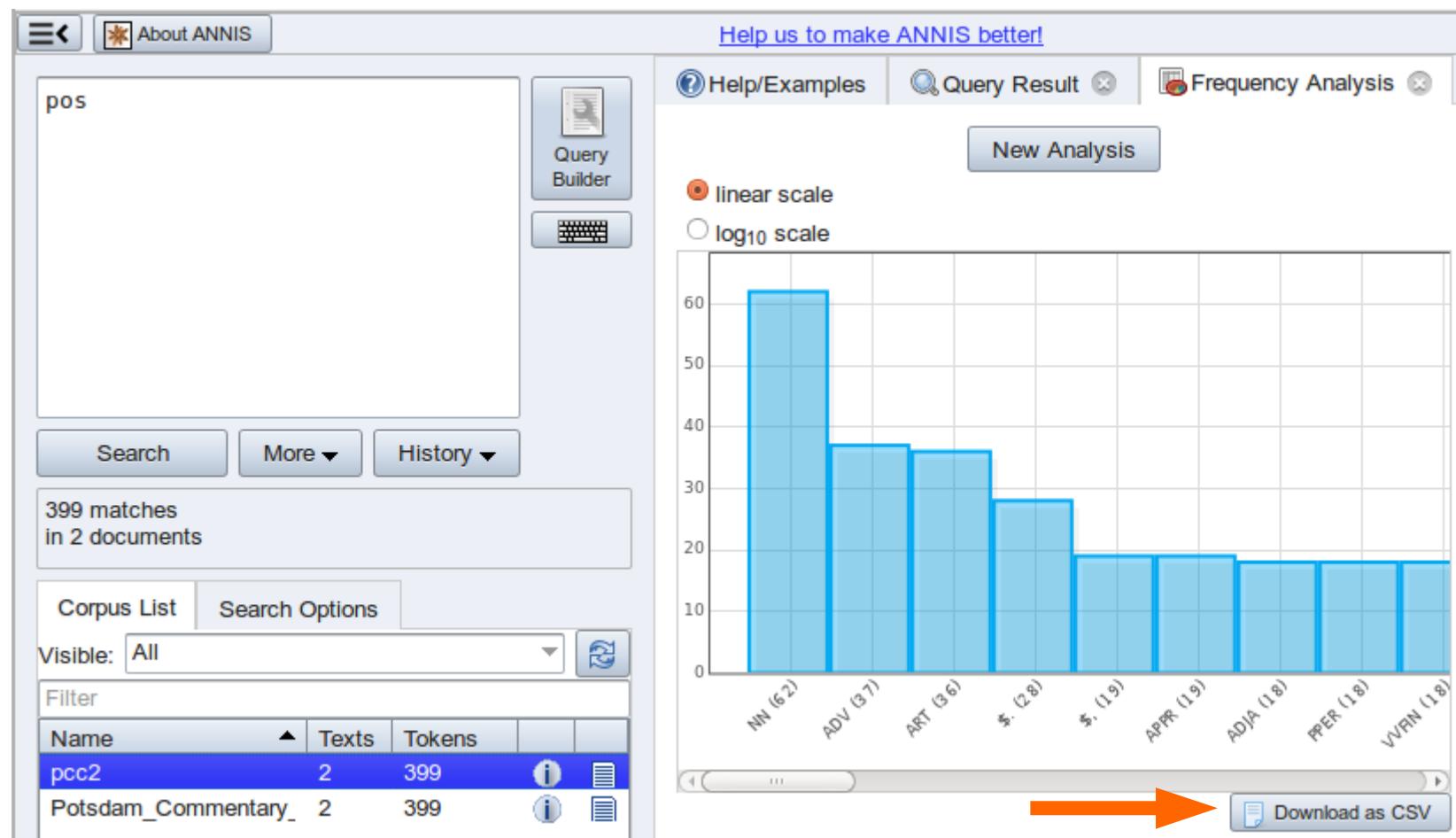
- Help us to make ANNIS better!
- Tab bar: Help/Examples, Query Result, Frequency Analysis
- Selected corpora: pcc2
- Query to analyze: pos
- Table:

	Node num	Selected annotation of	Comment
1	1	pos	automatically created from pos
- Buttons: Add, Delete selected row(s), Perform frequency analysis, Automatic mode



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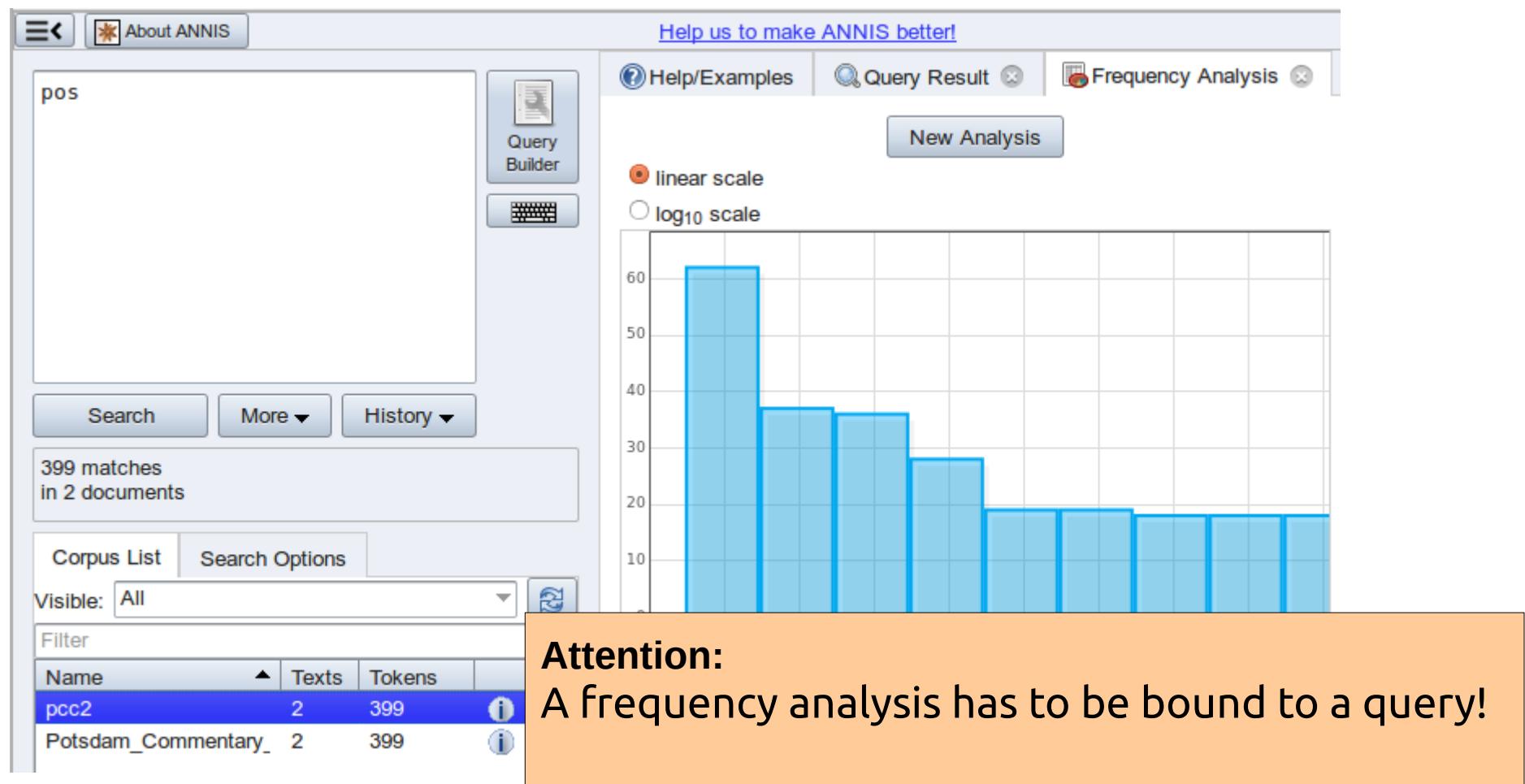
Frequency analysis





ANNIS: Search and Visualization in Multilayer Linguistic Corpora

Frequency analysis



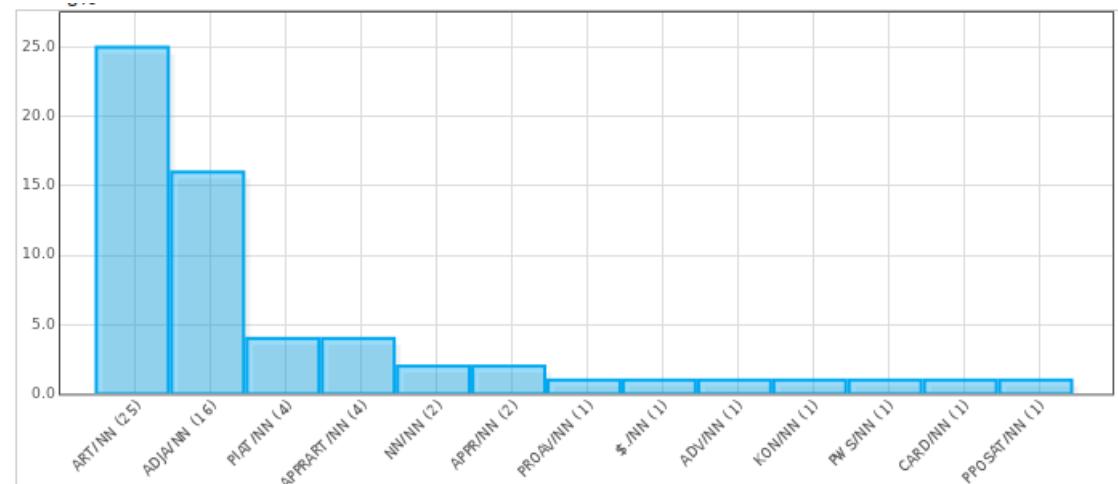


ANNIS: Search and Visualization in Multilayer Linguistic Corpora

Frequency analysis

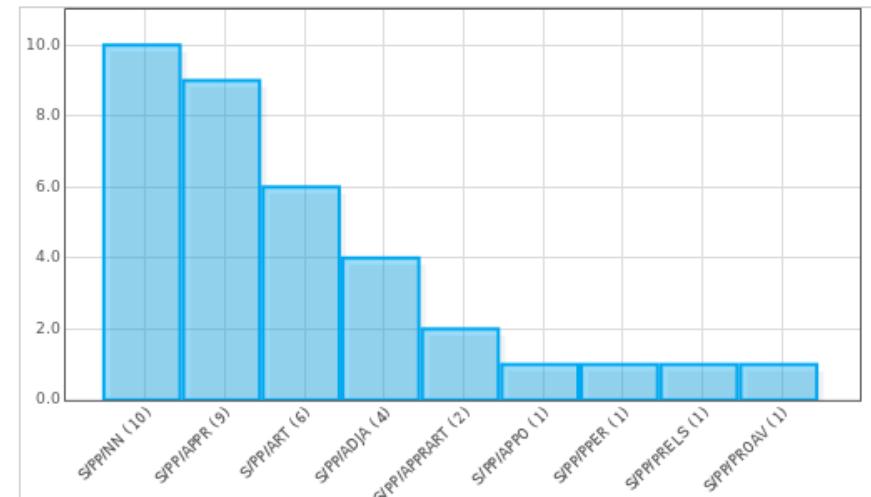
- What are the most frequent part-of-speech tags followed by a noun?

```
pos . pos="NN"
```



- What are the most frequent part-of-speech tags in a prepositional phrase, which is in a sentence?

```
cat="S" > cat="PP" > pos
```





- Sometimes the context is too small

Path: pcc2 > 11299 (tokens 5 - 24)

Zossen	wollen	ein	Musikcafé	.	Das	forderten	sie	bei
Zossen	wollen	ein	Musikcafé	.	der	fordern	sie	bei
Dat.Sg.Neut	3.PI.Pres.Ind	Acc.Sg.Neut	Acc.Sg.Neut	–	Acc.Sg.Neut	3.PI.Past.Ind	3.Nom.Pl.*	–
NE	VMFIN	ART	NN	\$.	PDS	VVFIN	PPER	APPR

+ dependencies (arches)

left context: 5 right context: 20

0
5
10
15
20
25

- Even more than 25 is possible, it's a free text field



- Equality „==“ and inequality „!=“ for attributes
- Question (equality):

two same part-of-speech tags, one directly following the other

ersten

Zossener

erster

Zossener

Pos.Dat.Sg.Fem

Pos.*.*.*

ADJA

ADJA

pos . pos & #1 == #2



- Equality „==“ and inequality „!=“ for attributes
- Question (inequality):

two different part-of-speech tags, one directly following the other

Die

Jugendlichen

der

jugendliche

Nom.PL.*

Nom.PL.*

ART

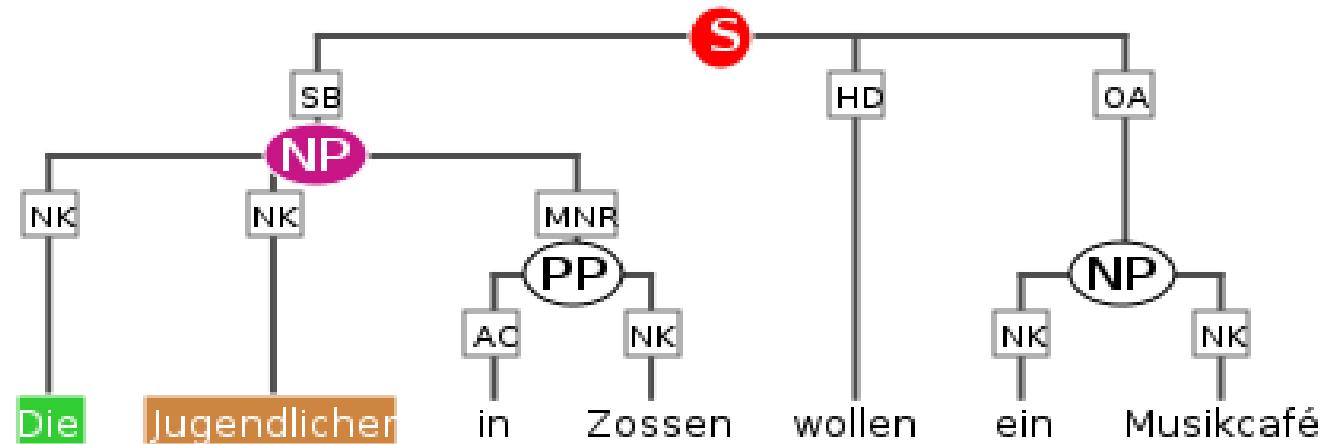
NN

pos . pos & #1 != #2

Variables

- Question:

„Die“ followed by „Jugendlichen“ both being dominated by a prepositional phrase which is dominated by a sentence



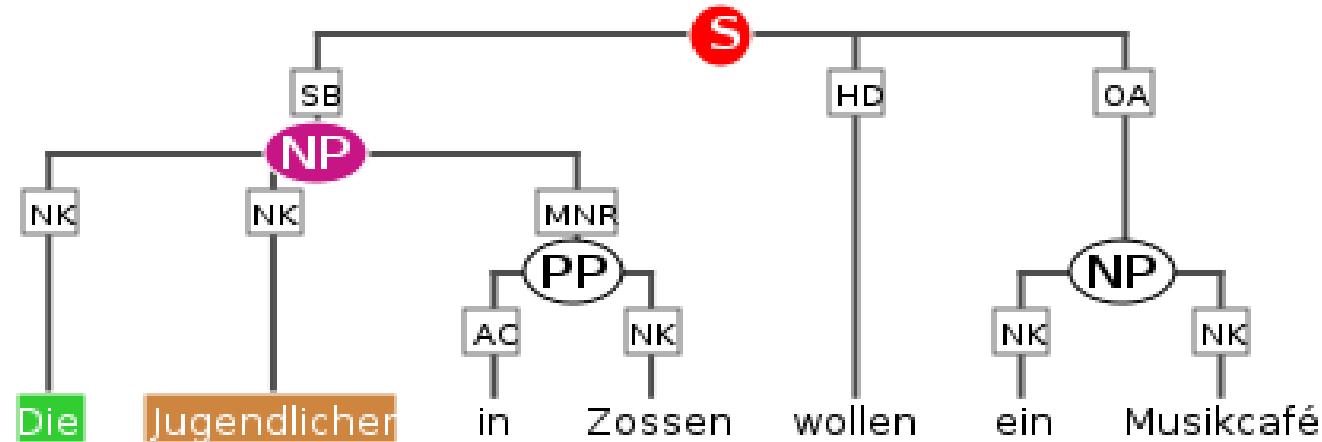
Simplified:

`cat="S" > cat="NP" > "Die" . "Jugendlichen" & #2 > #4`

Variables

- Question:

„Die“ followed by „Jugendlichen“ both being dominated by a prepositional phrase which is dominated by a sentence



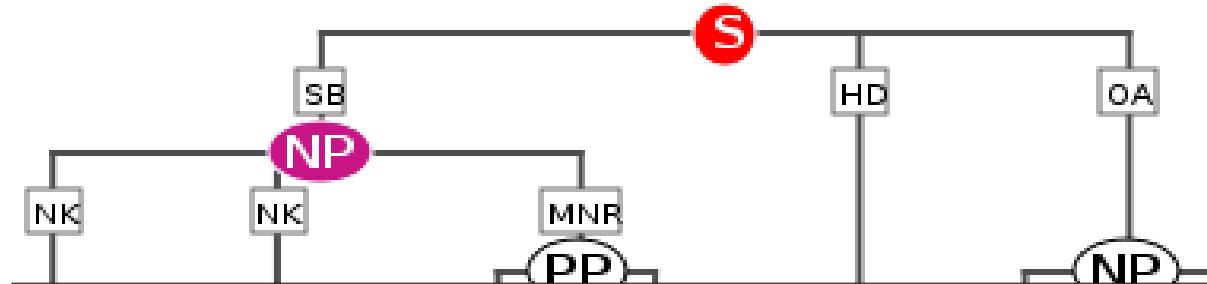
Simplified:

`cat="S" > np#cat="NP" > "Die" . jug#"Jugendlichen" & #np > #jug`

Variables

- Question:

„Die“ followed by „Jugendlichen“ both being dominated by a prepositional phrase which is dominated by a sentence



Variables and numbers can be mixed:
cat="S" > np#cat="NP" > "Die" . "Jugendlichen" & #np > #4

Simplified:

cat="S" > np#cat="NP" > "Die" . jug#"Jugendlichen" & #np > #jug



- Question (simple OR):

A part-of-speech tag which is a noun, an attributive adjective or an article

`pos=/(NN)|(ADJA)|(ART)/`

(in pattern search)



- Question (simple OR):

A part-of-speech tag which is a noun, an attributive adjective or an article

```
pos=/(NN)|(ADJA)|(ART)/          (in pattern search)
```

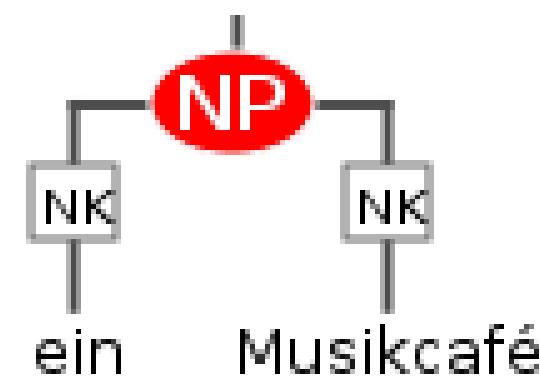
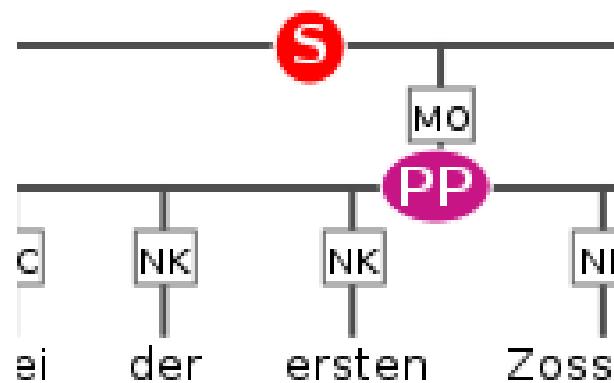
- OR for expressions

```
pos="NN" | pos="ADJA" | pos= "ART"
```



- Question (complex OR):

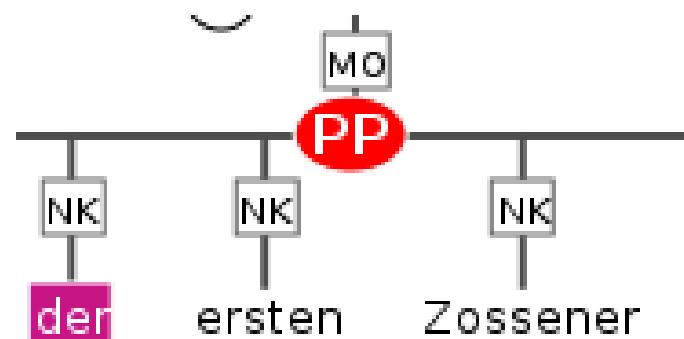
A prepositional phrase, which is dominated by a sentence,
or just a nominal phrase



`(cat="S" > cat="PP") | cat="NP"`

- Question (nested OR):

A prepositional phrase, which dominates a noun, an attributive adjective or an article

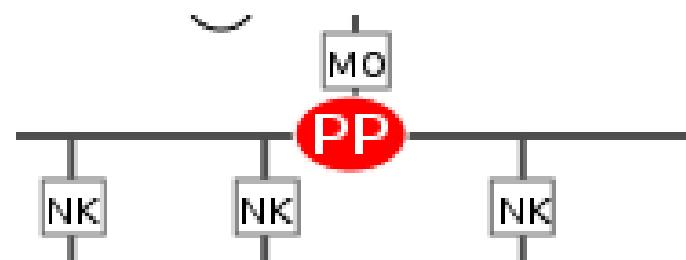


```
a#cat="PP" &  
(b#pos="NN" | b#pos="ADJA" | b#pos= "ART") &  
#a > #b
```



- Question (nested OR):

A prepositional phrase, which dominates a noun, an attributive adjective or an article



Attention:

All expressions in brackets have to use the same variable
... & (b#pos="NN" | b#pos="ADJA" | b#pos= "ART") & ...

a#cat="P"

(b#pos="NN" | b#pos="ADJA" | b#pos= "ART") &
#a > #b



ANNIS: Search and Visualization in Multilayer Linguistic Corpora

Document browser

- Displays the entire text of a document

The screenshot shows the ANNIS Document browser interface. On the left, there is a search panel with an 'AQL query' input field, a 'Query Builder' button, and a keyboard icon. Below it are 'Search', 'More', and 'History' buttons, and a status message 'Status: Ok'. At the bottom, there are tabs for 'Corpus List' and 'Search Options', and a 'Visible' dropdown set to 'All'. The main area displays a table of documents:

document name	corpus path	visualizer	info
11299	pcc2 > 11299	full text	
4282	pcc2 > 4282	full text	



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Document browser

The screenshot shows the ANNIS interface. On the left, there's a search bar with placeholder text "Please enter AQL query", a "Query Builder" button, and a keyboard icon. Below the search bar are buttons for "Search", "More ▾", and "History ▾". A status message "Status: Ok" is displayed. Underneath, there are tabs for "Corpus List" and "Search Options", and a dropdown menu set to "Visible: All". A "Filter" section shows a table with one row: "Name" (pcc2), "Texts" (2), and "Tokens" (399). On the right, a large text area displays a document snippet: "Feigenblatt Die Jugendlichen in Zossen wollen ein Musikcafé . Das forderten sie bei der ersten Zossener Runde am Dienstagabend . Dass die Politiker der Stadt dafür Verständnis haben , ist loblich . Mit dem Treffen im Rathaus ist somit auch ein Dialog zwischen den Generationen angestoßen . Dass die beiden geladenen Jugendlichen im Laufe des Abends immer weniger zu Wort kamen , war sicher keine böse Absicht , ärgerlich ist es trotzdem . Und aberwitzig dazu . Es entbehrt nicht der Komik , wenn sich drei Erwachsene - Karola Andrae (Bürgerbündnis/FDP) , Susanne Michler (CDU) und Joachim Zanow (SPD) - darüber streiten , was Jugendliche wollen und brauchen , ohne auf die Idee zu kommen , sie selbst zu fragen . Und das , obwohl sie ihnen gegenüber sitzen . Die Jugendlichen wurden somit zum bloßen Feigenblatt degradiert . Nicht über sondern mit ihnen hätten die Politiker reden sollen . Damit ist eine große Chance vertan . Vielleicht klappt es bei der nächsten Runde Anfang 2002 . Dann werden auch mehr Jugendliche eingeladen . In der Gruppe können sie sich hoffentlich mehr Gehör verschaffen . Vielleicht finden dann auch Vertreter von PDS und Gewerbeverein ihren Weg ins Rathaus . Die glänzten diesmal noch mit Abwesenheit ."



- Export data for further processing

The screenshot shows the ANNIS interface with the following elements:

- Top Bar:** Includes links for "About ANNIS" and "Report Problem".
- Help Bar:** "Help us to make ANNIS better!" and "not logged in" with a "Login" link.
- Left Panel:** Shows the search query: "cat="S" > cat="PP" > pos".
- Toolbar:** Buttons for "Search", "More", "History", "Export", and "Frequency Analysis".
- Message Area:** "35 matches in 2 documents".
- Footer:** Buttons for "Corpus List" and "Search Options".
- Right Panel (Settings):**
 - Exporter:** Set to "CSVExporter".
 - Left Context:** Set to 5.
 - Right Context:** Set to 5.
 - Annotation Keys:** Empty input field.
 - Parameters:** Empty input field.
 - Buttons:** "Perform Export" (highlighted with an orange arrow) and a "Help" icon.



- Sometimes corpus names can get very long

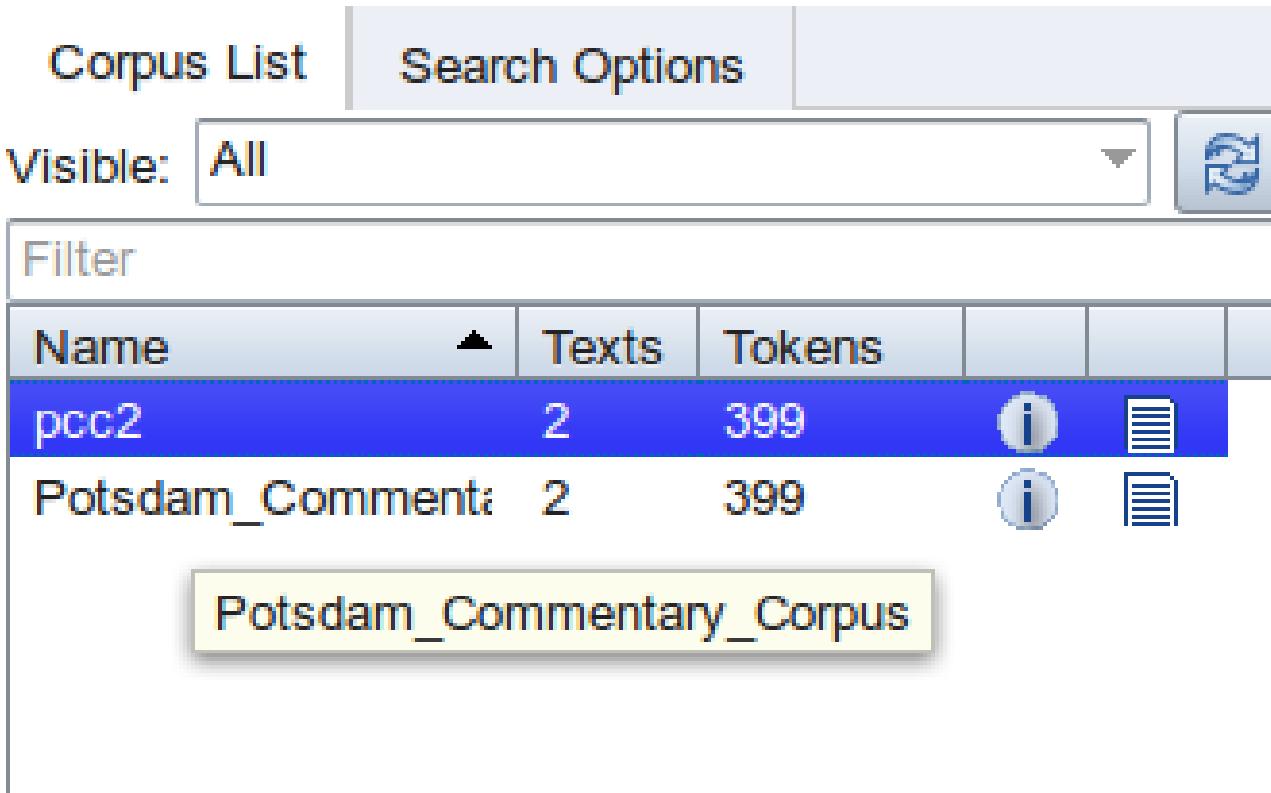
Corpus List Search Options

Visible: All

Filter

Name	▲	Texts	Tokens				
pcc2		2	399				
Potsdam_Commentary_Corpus		2	399				

Potsdam_Commentary_Corpus





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Report problem

Report Problem

Short Summary*

What steps will reproduce the problem?
1.
2.
3.

Long Description*

What is the expected result?

What happens instead

Your Name*

Your e-mail address*

Attached screenshot

Hide attached screenshot

Submit problem report

The screenshot shows the ANNIS Report Problem interface. At the top, there are tabs for 'About ANNIS' and 'Report Problem'. An orange arrow points to the 'Report Problem' tab. Below it, there are fields for 'Short Summary*', 'Long Description*', 'Your Name*', and 'Your e-mail address*'. A link 'Hide attached screenshot' is present. A large area displays a search interface with multiple results. Another orange arrow points to the 'Submit problem report' button at the bottom left of the form.



Get ANNIS

- ANNIS comes in two flavors
 - A server version
 - A desktop version (ANNIS kickstarter)
 - Both are downloadable at:
<http://www.sfb632.uni-potsdam.de/annis/>
- ANNIS is open source (Apache license 2.0) and hosted on github
 - <https://github.com/korpling/ANNIS>



Thanks for your attention!
Any questions?

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