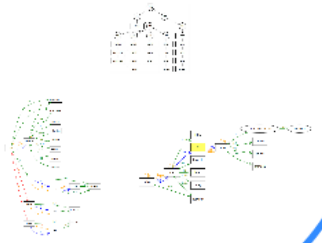
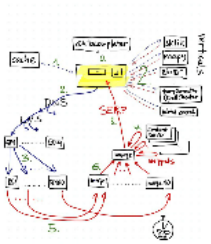
Roman Rožník
seznam fulltext revealed

query processor



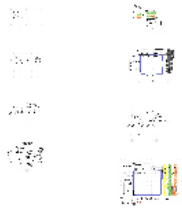
crawler

the Search

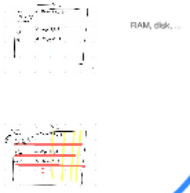


indexing

machine learning



reverse index

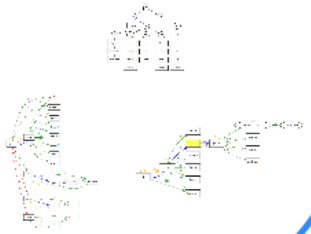


конец

romik@gmail.com
roman.roznik@linmus.seznam.cz
fulltext.sblog.cz
https://www.youtube.com/user/DusanJaninsky
http://cyber.felk.cvut.cz/research/theses/papers/471.pdf

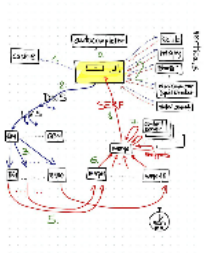
Roman Rožník
seznam fulltext revealed

query processor



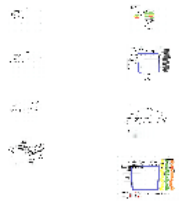
crawler

the Search



indexing

machine learning

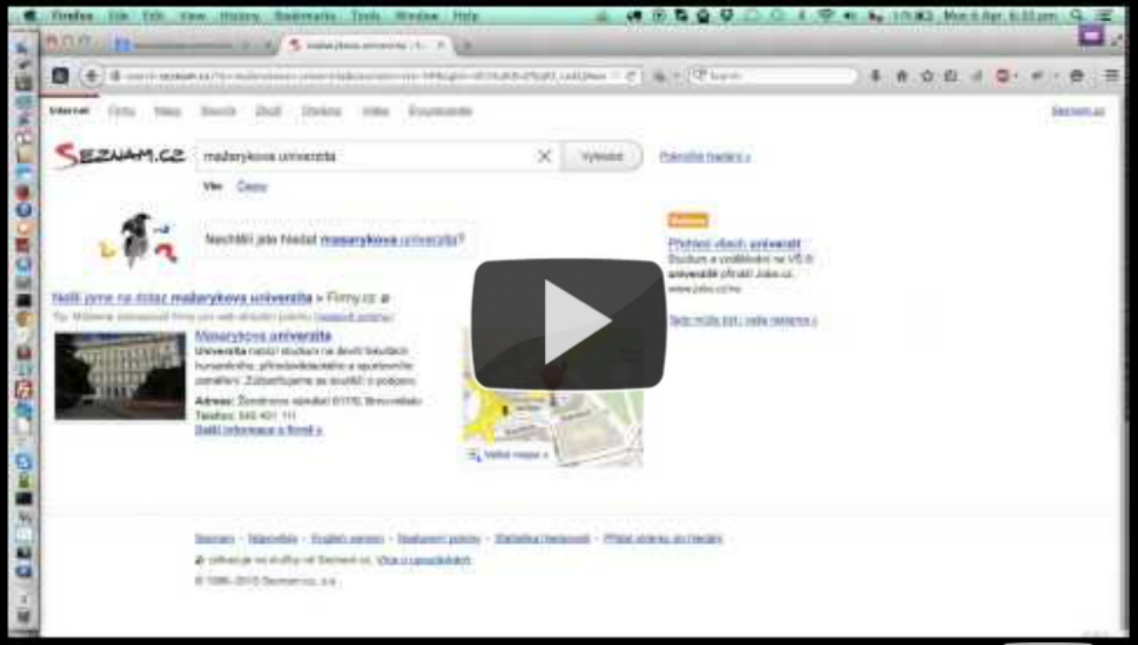


reverse index

RAM, disk, ...

конец

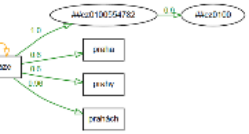
rozrik@gmail.com
roman.roznik@firma.seznam.cz
fulltext.sblog.cz
https://www.youtube.com/user/DusanJanousky
http://cyber.felk.cvut.cz/research/theses/papers/472.pdf

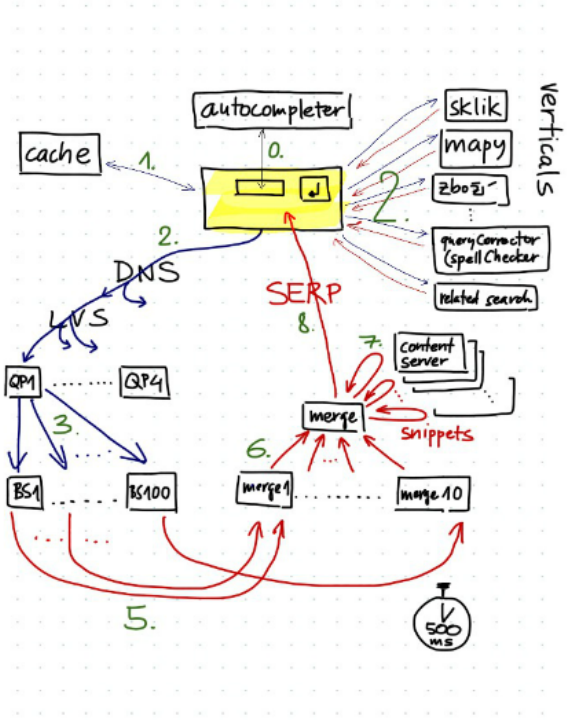


YouTube

Prezi

the Search





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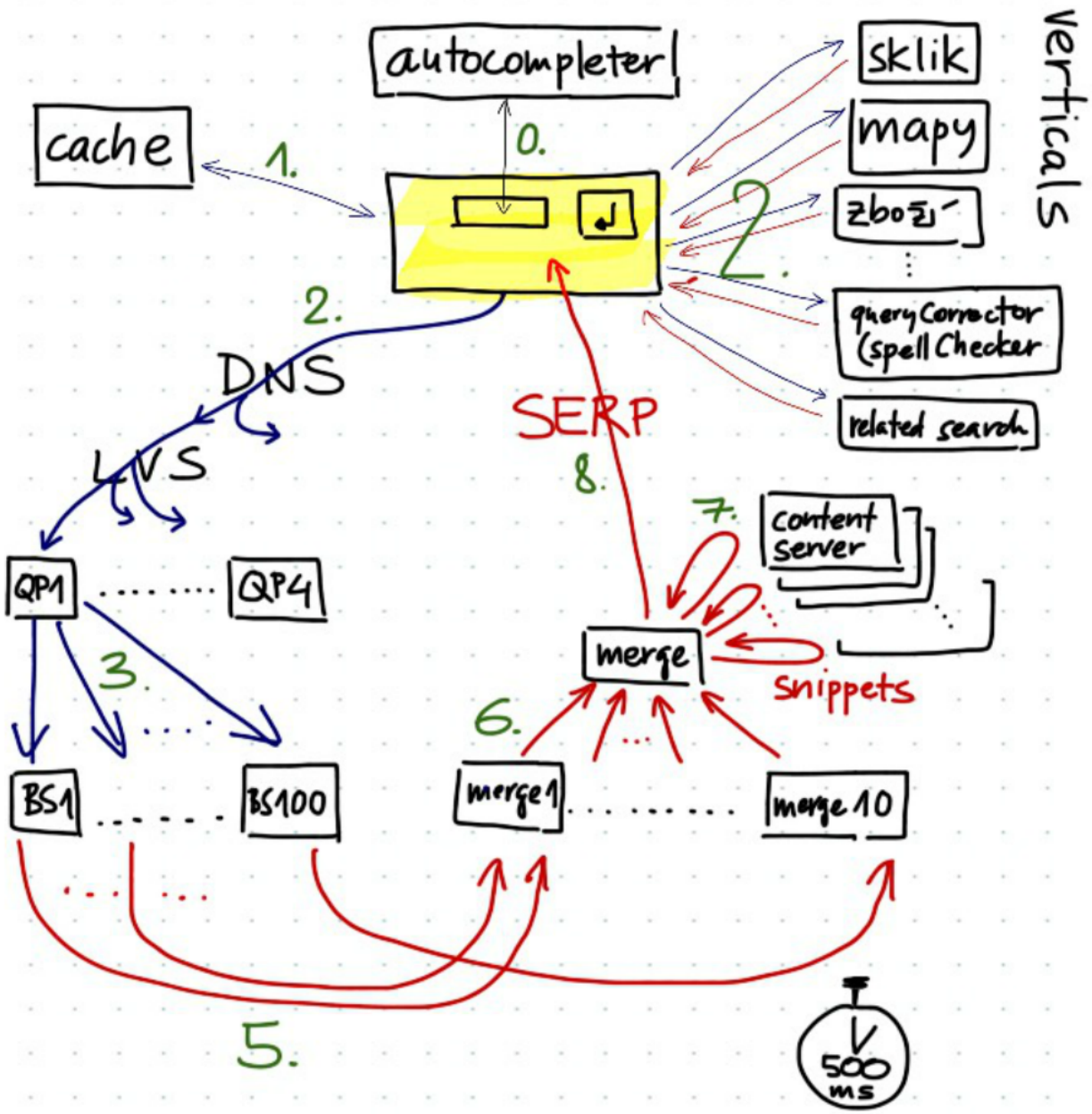
autocompleter
cache
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sklik
mapy
zboží
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verticals
queryCorrector
(spell Checker
related search
2.
DNS
SERP
8.
LVS
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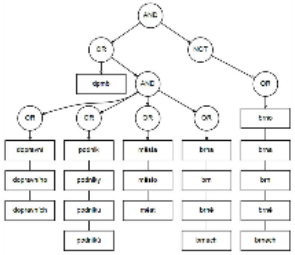
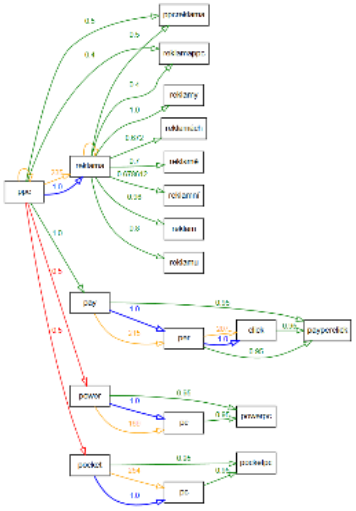
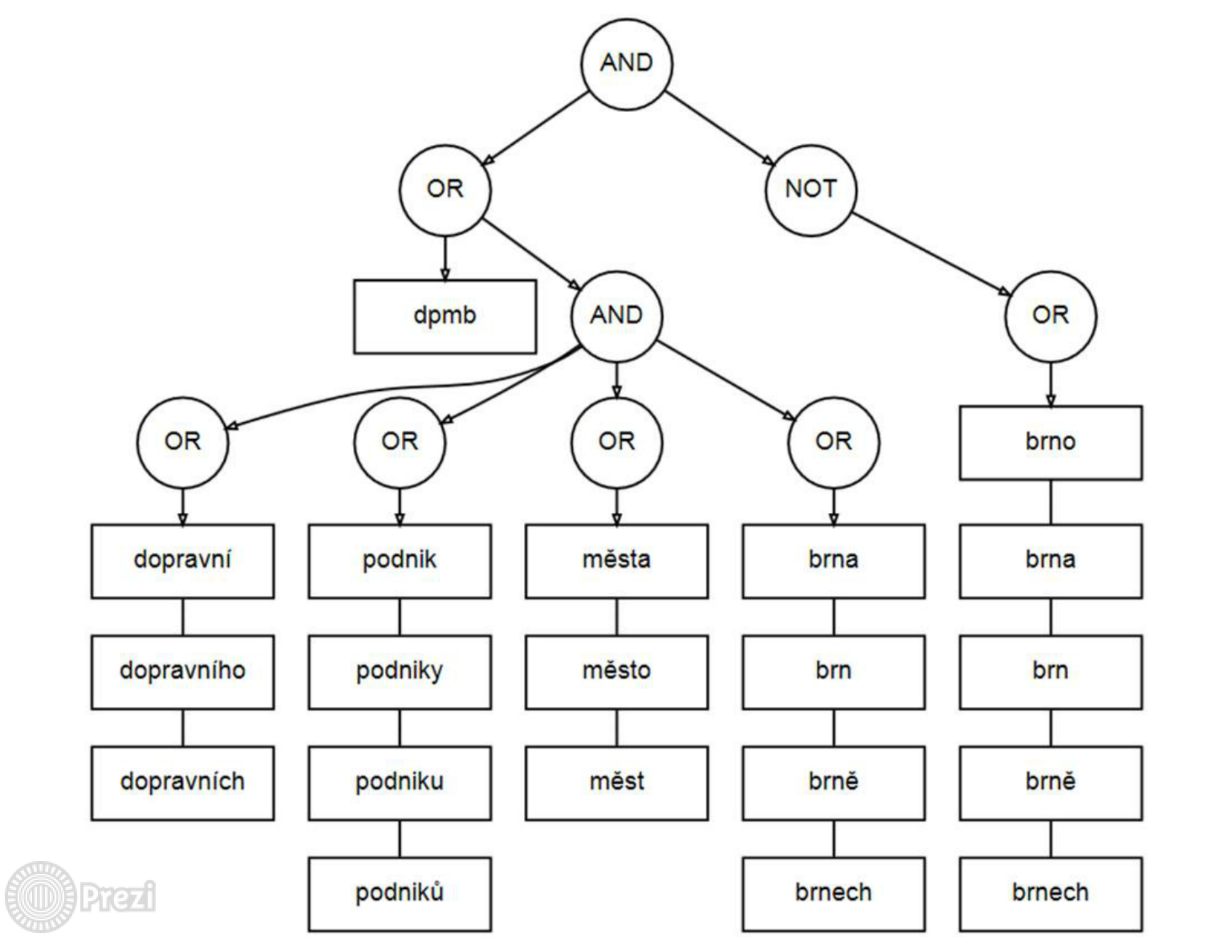
content
server
QP1
QP4
merge
snippets
3.
6.
BS1
BS100
merge1
merge 10
5.
500
ms

query processor



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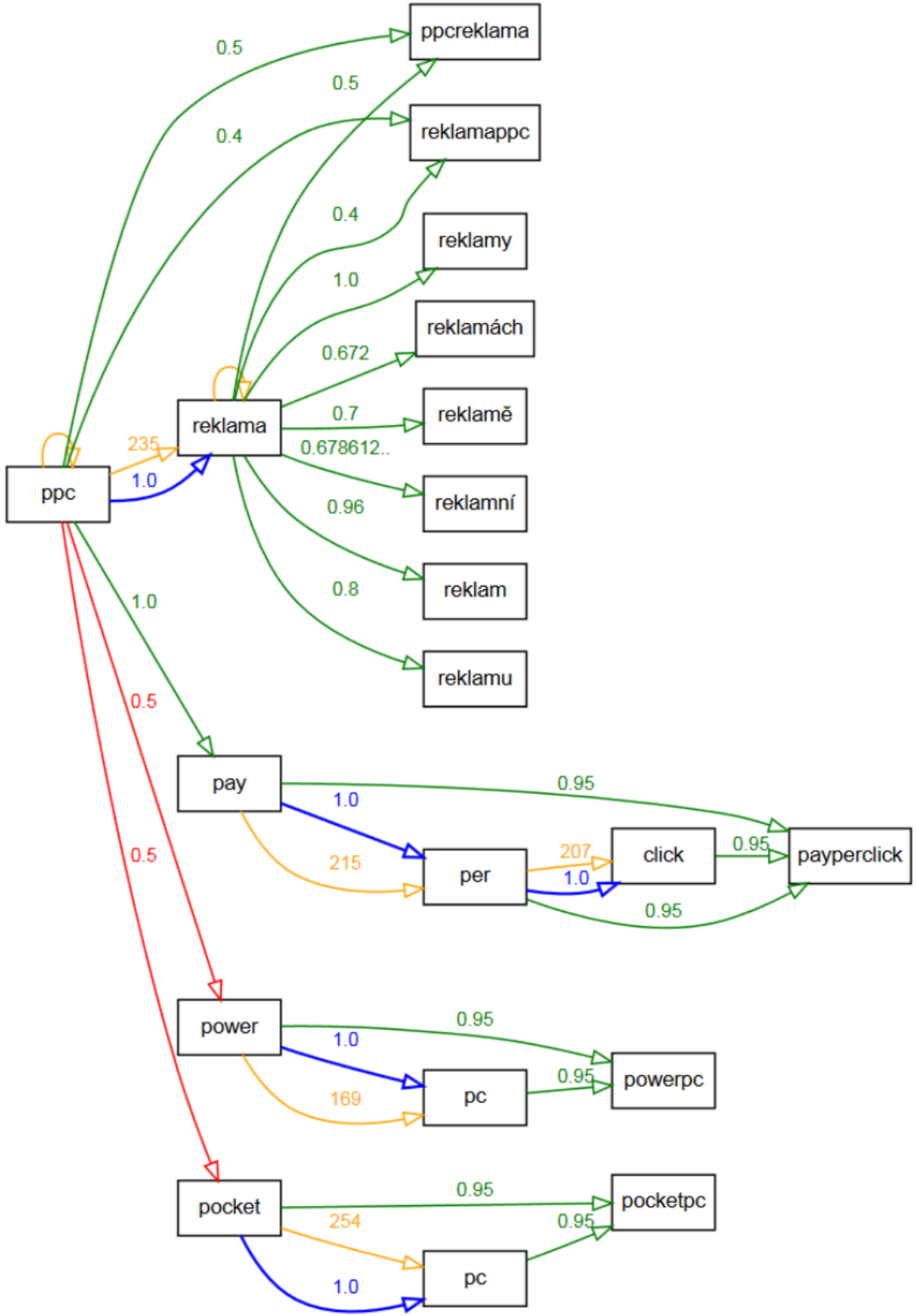
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1.0
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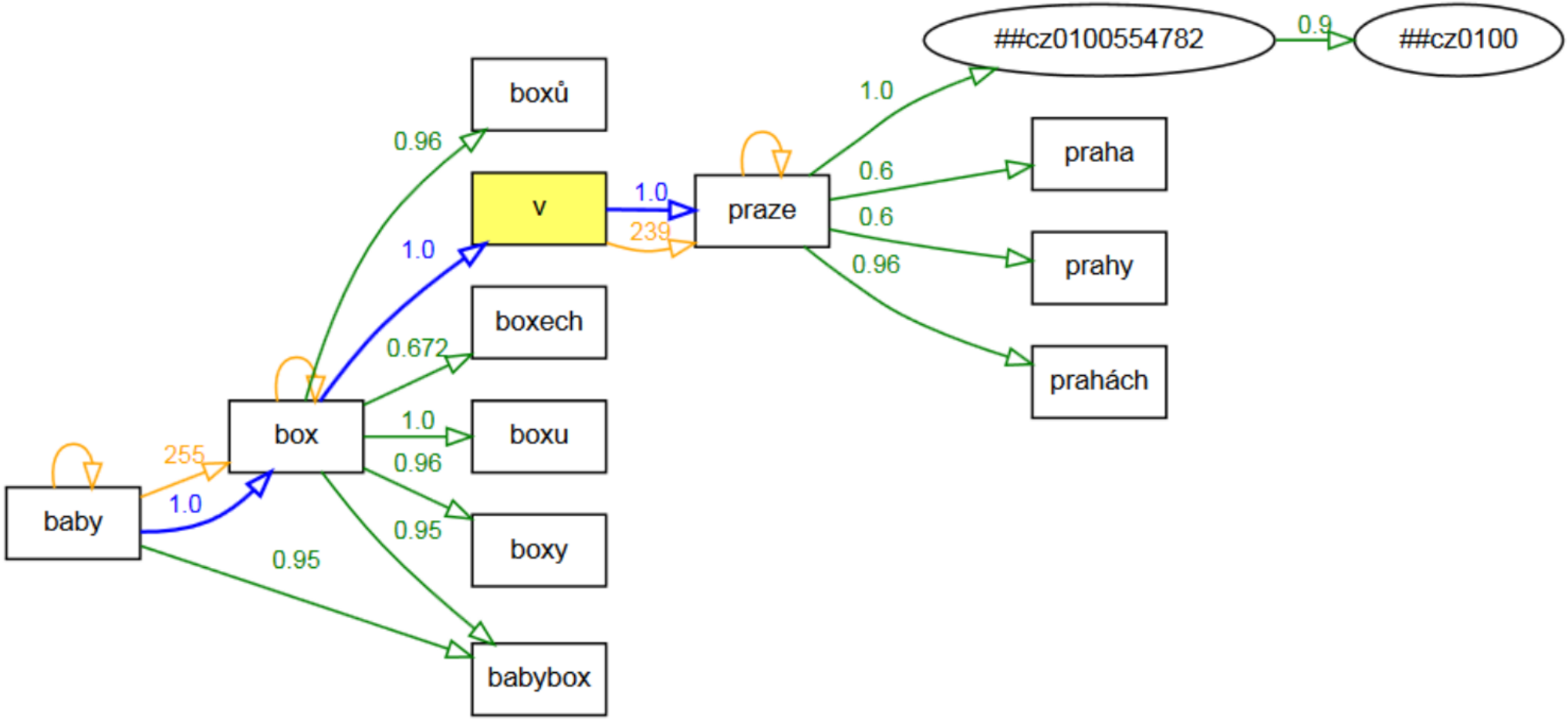
1.0


baby
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##cz0100
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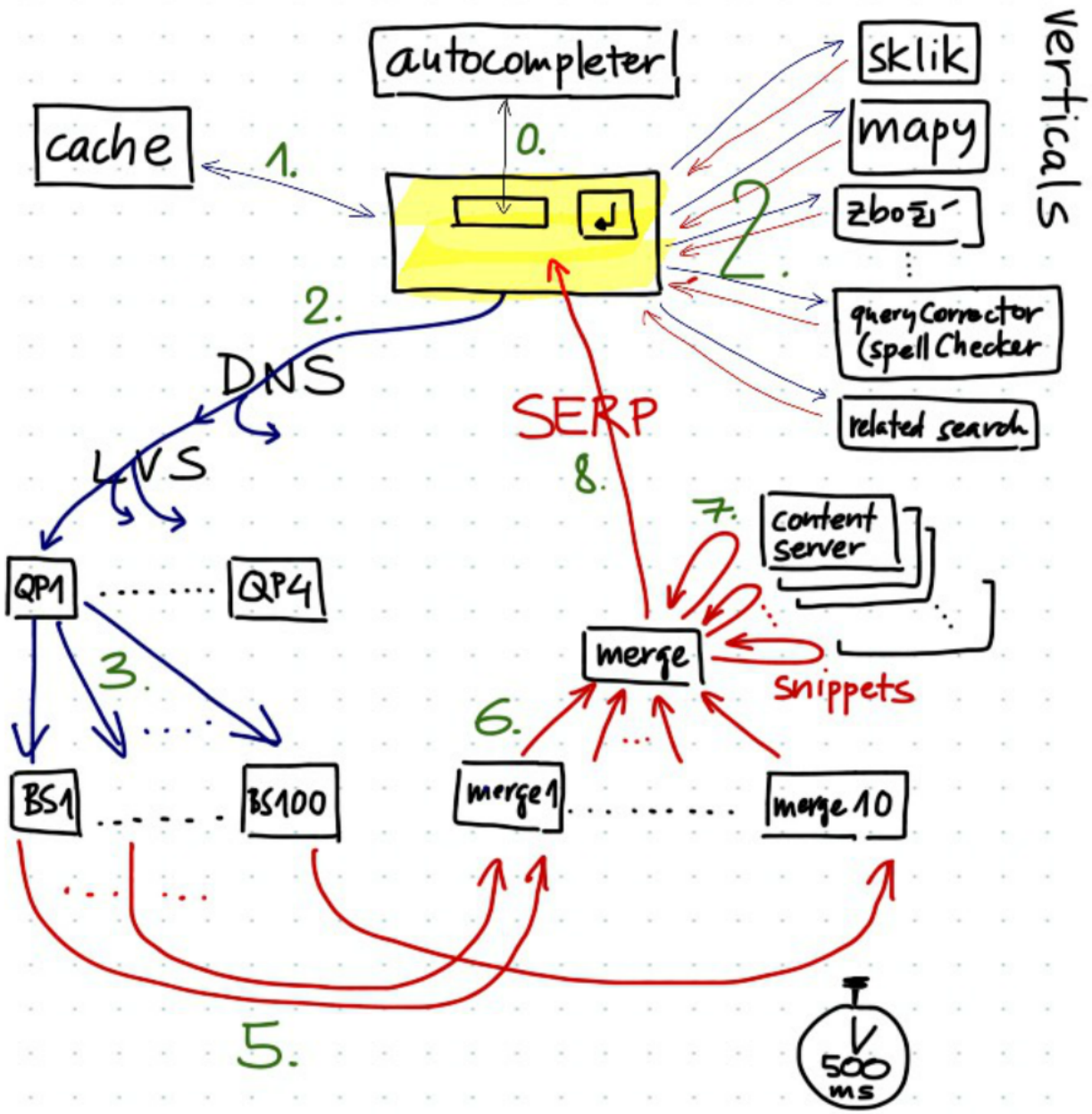
autocompleter
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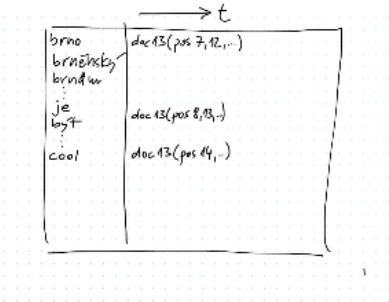
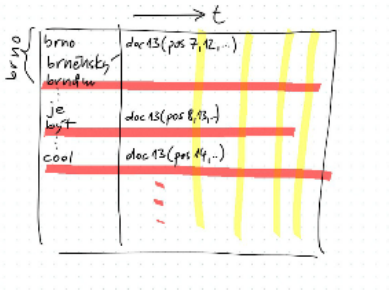
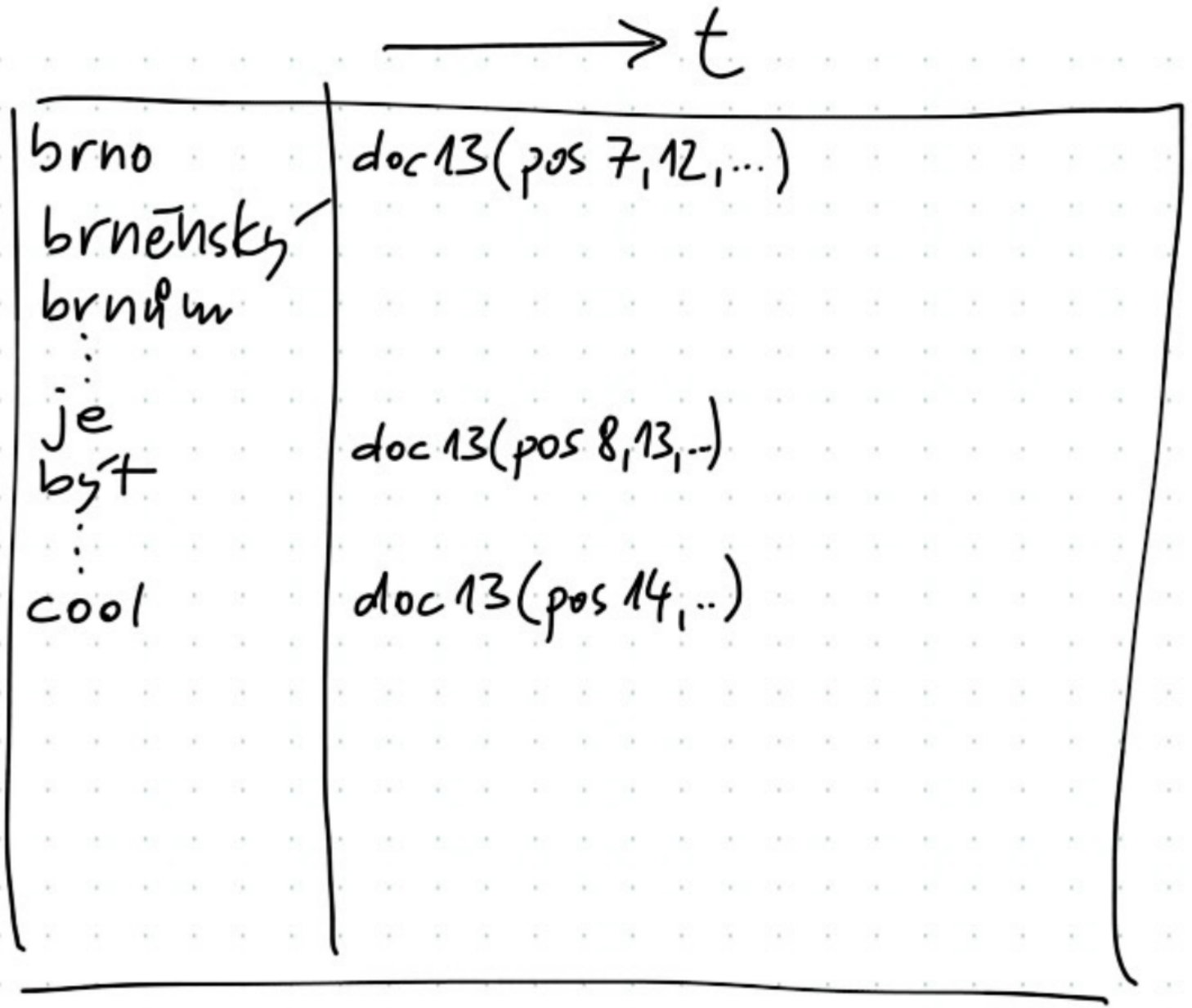
content
server
QP1
QP4
merge
snippets
3.
6.
BS1
BS100
merge1
merge 10
5.
500
ms

reverse index



RAM, disk, ...




t
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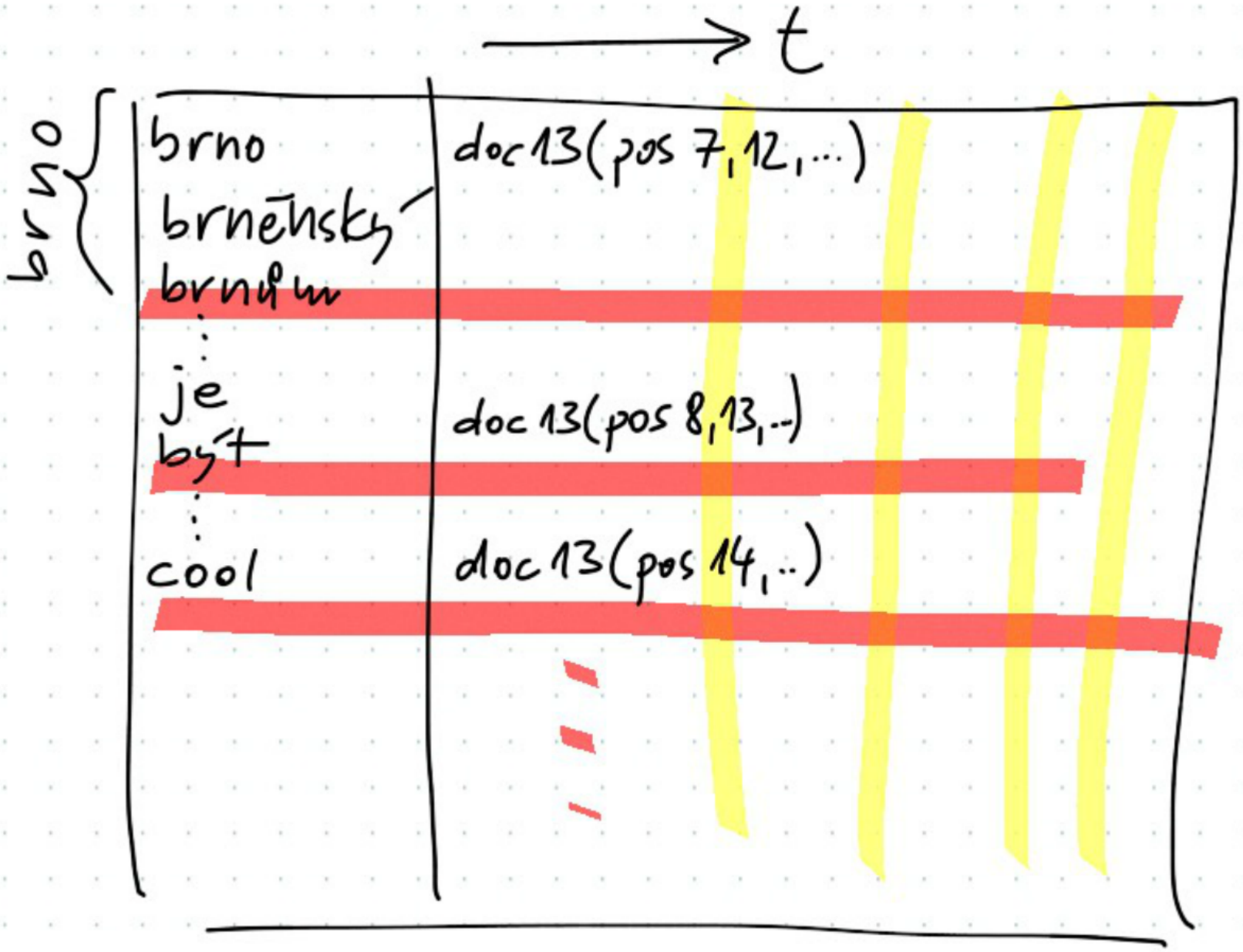
doc13(pos 7,12,...)
doc13(pos 8,13,..)
doc13(pos 14,..)


t
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doc 13 (pos 7, 12, ...)
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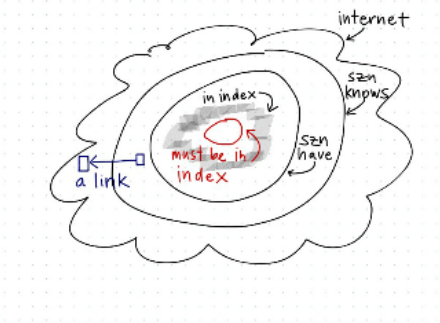
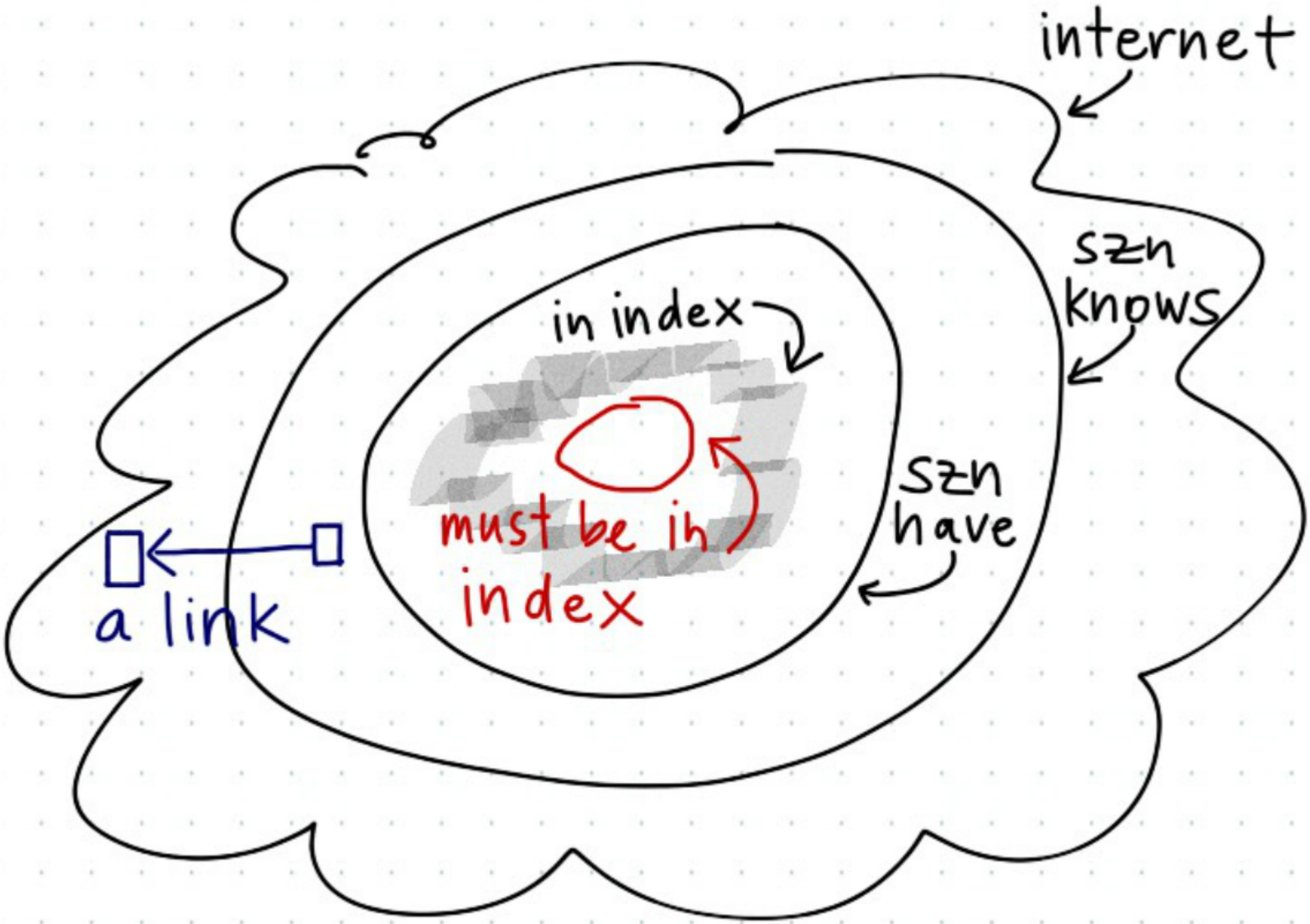
doc 13 (pos 14, ..)

crawler



www.fi.muni.cz/usr/pelikan

1.1.1970	500
2.3.1998	200
2.9.1998	304
2.9.1999	304
2.9.2002	304
2.9.2008	304
≈2020	planned


internet
szn knows
in index
must be in index
szn have
a link

www.fi.muni.cz/usr/pelikan

1.1.1970	500
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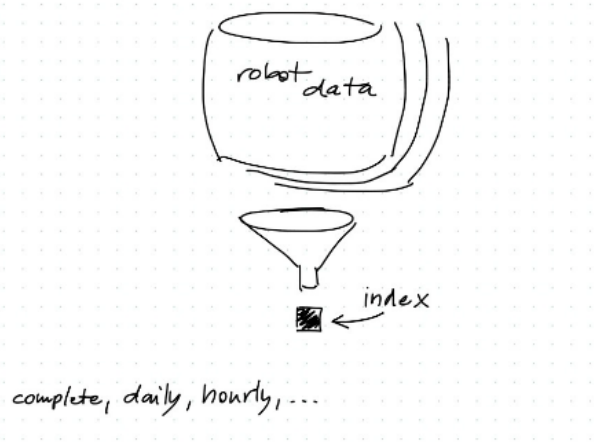
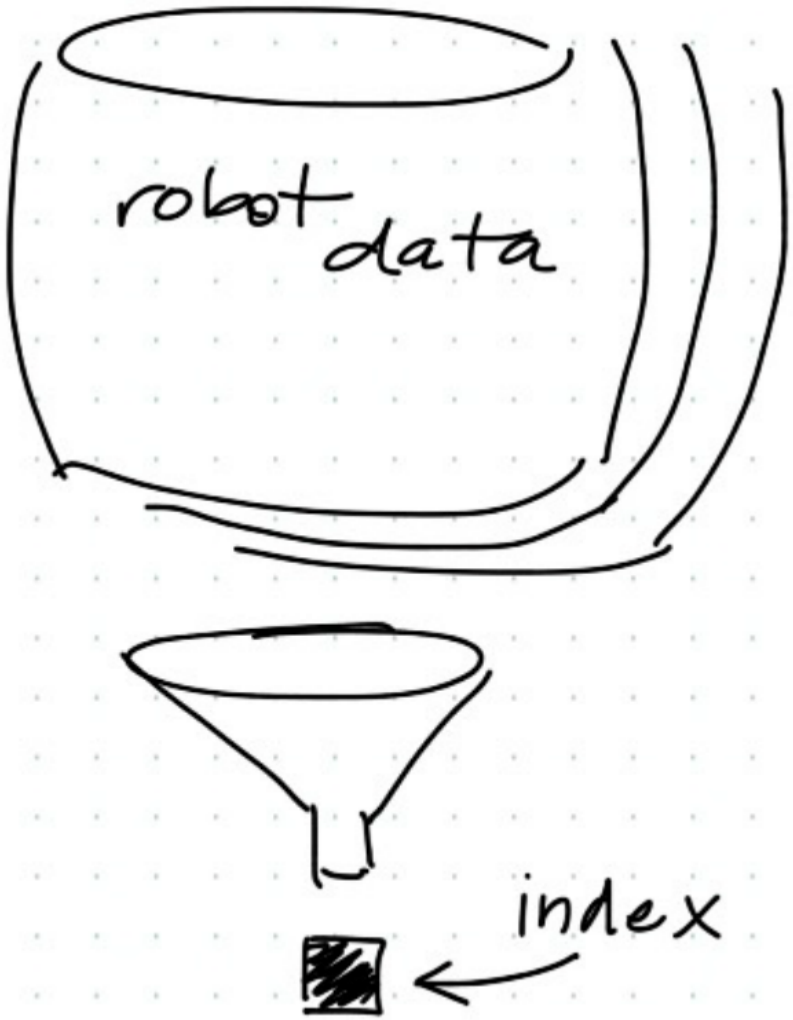
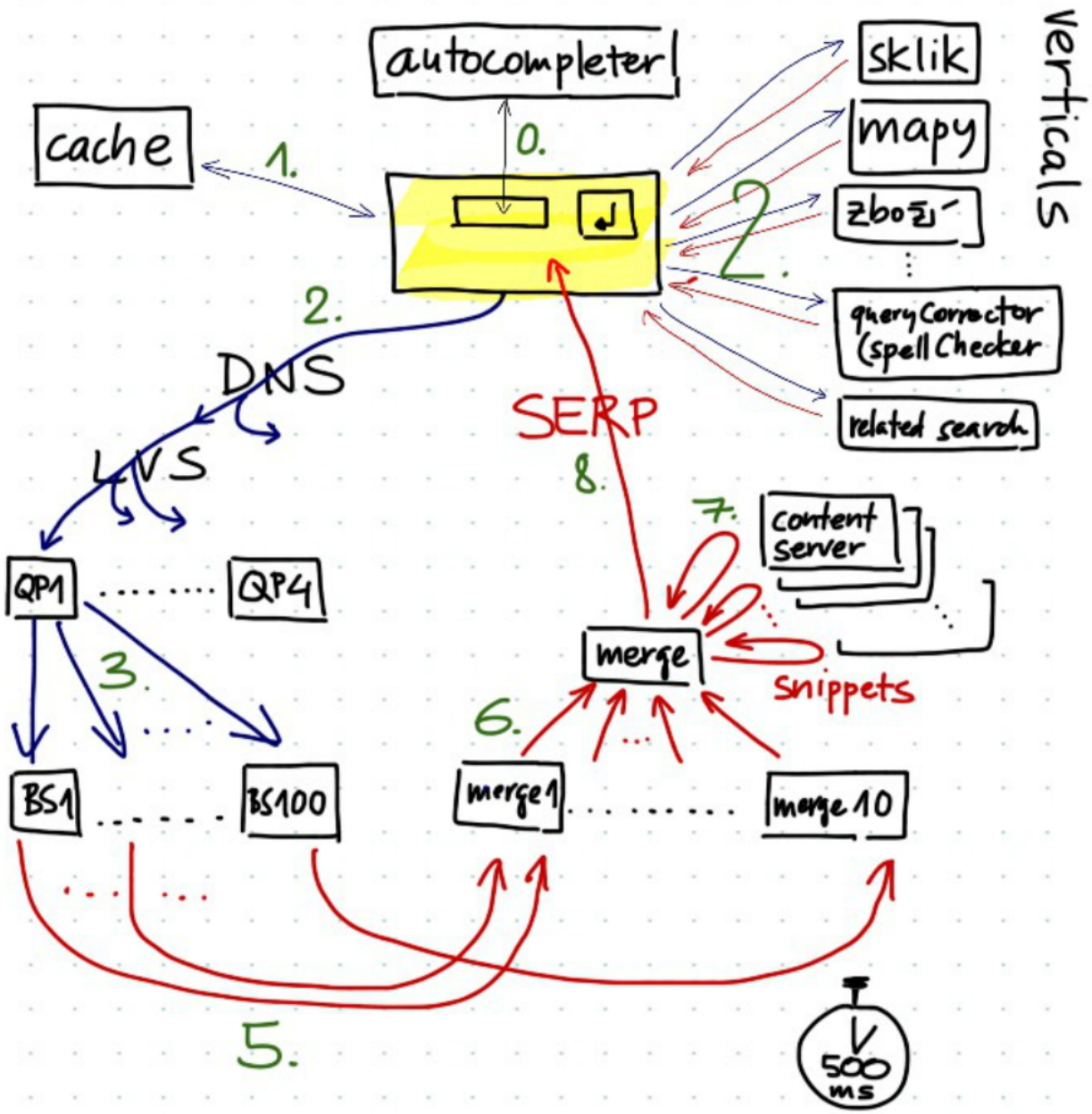
2.9.1998	304
2.9.1999	304
2.9.2002	304
2.9.2008	304
≈2020	planned

indexing





complete, daily, hourly, ...


autocompleter
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(spell Checker
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QP4
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snippets
3.
6.
BS1
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merge1
merge 10
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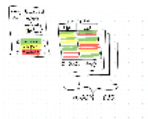
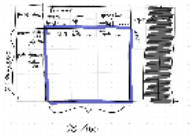
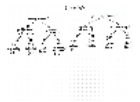
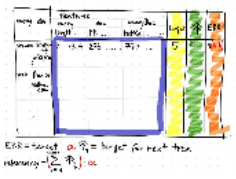
ms

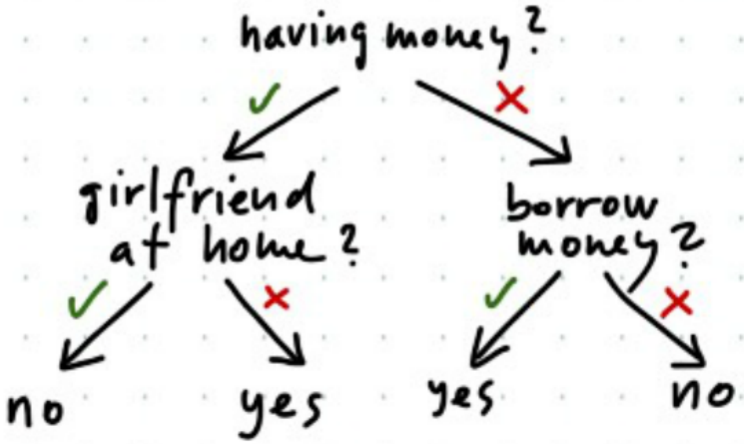
machine learning

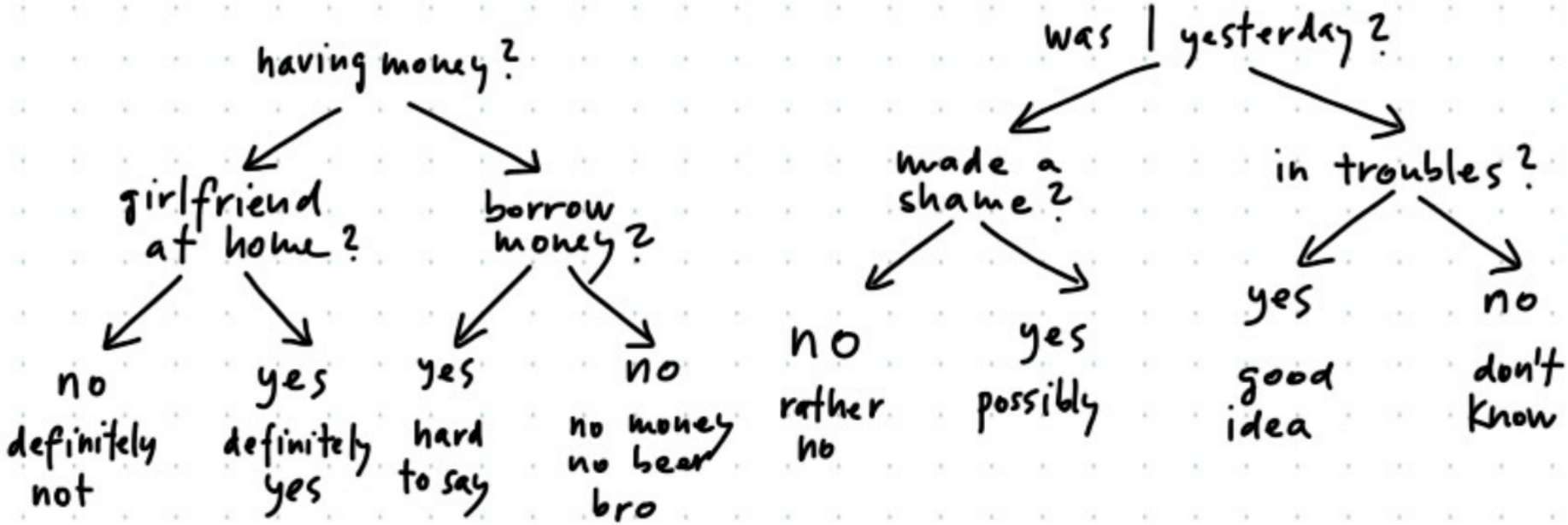



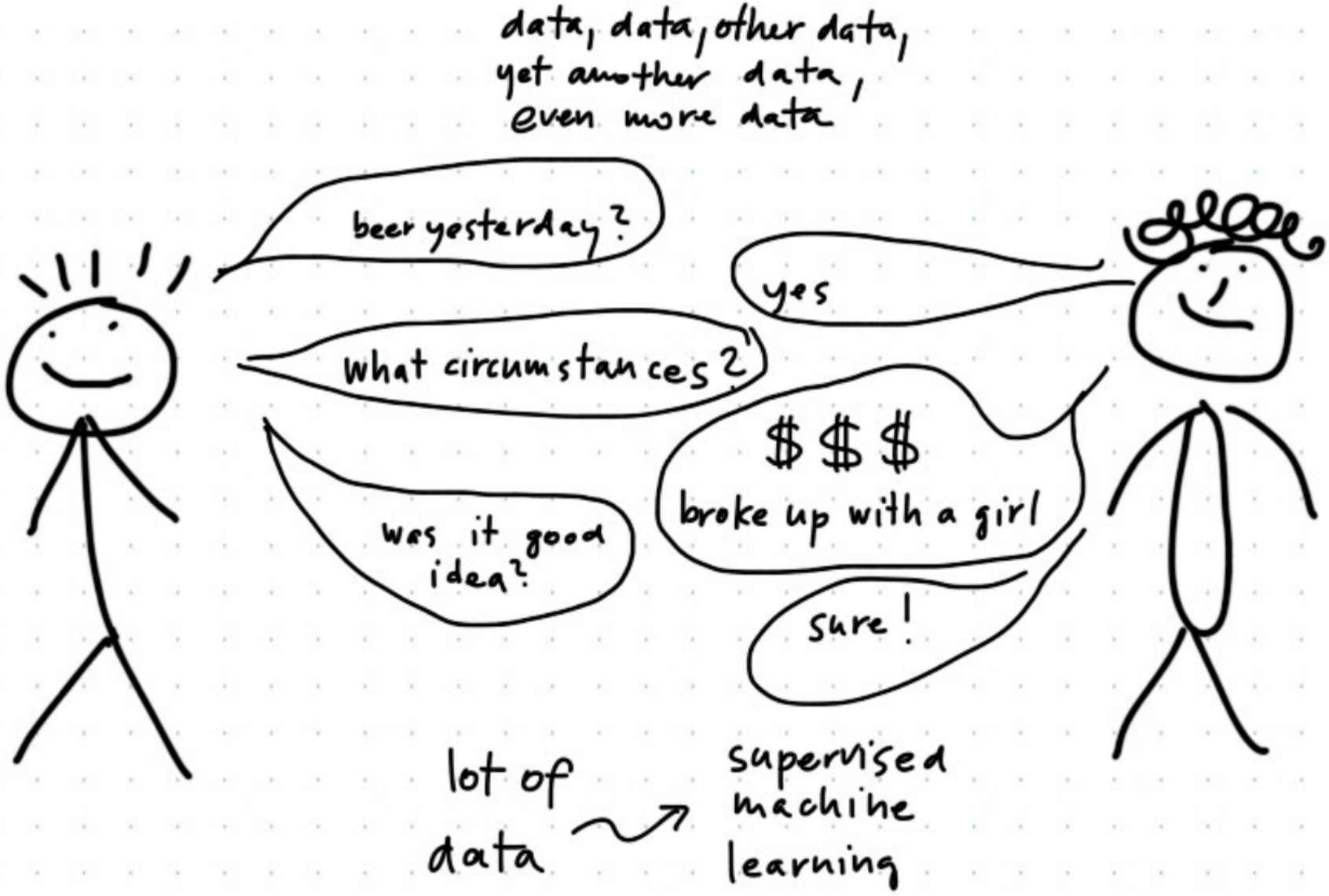
beer today?

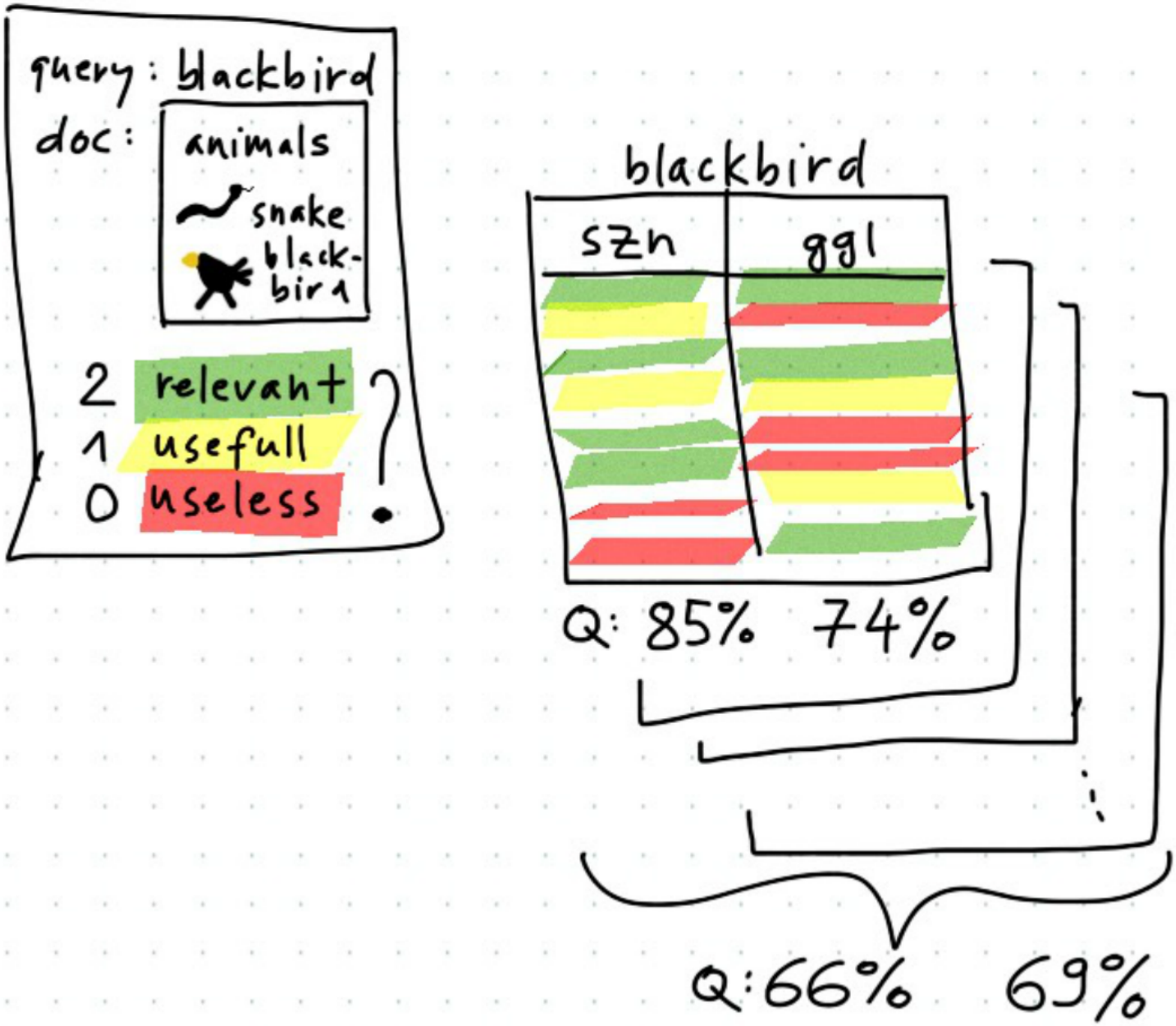



beer today?
having money?
girlfriend at home?
borrow money?
no
yes
yes
no
was I yesterday?
made a shame?
in troubles?
no
yes
yes
no

beer today?




data, data, other data,
yet another data,
even more data
beer yesterday?
yes
what circumstances?
$ $ $
broke up with a girl
was it good idea?
sure!
lot of data
supervised machine learning


query : blackbird
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animals
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2 relevant
1 usefull
0 useless
?
blackbird
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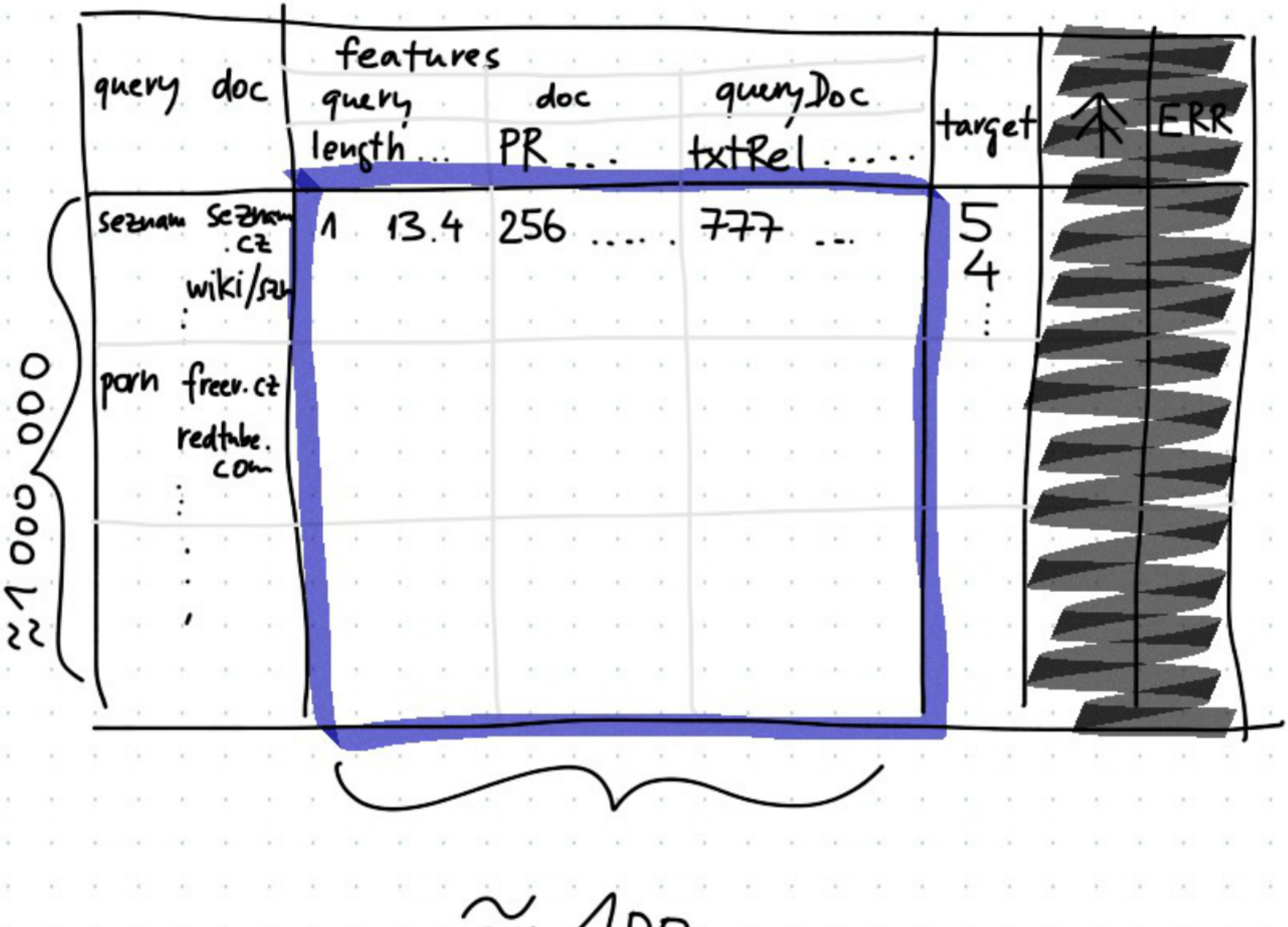
Q: 85% 74%
Q: 66% 69%


query
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features
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doc
queryDoc
length ...
PR ...
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target
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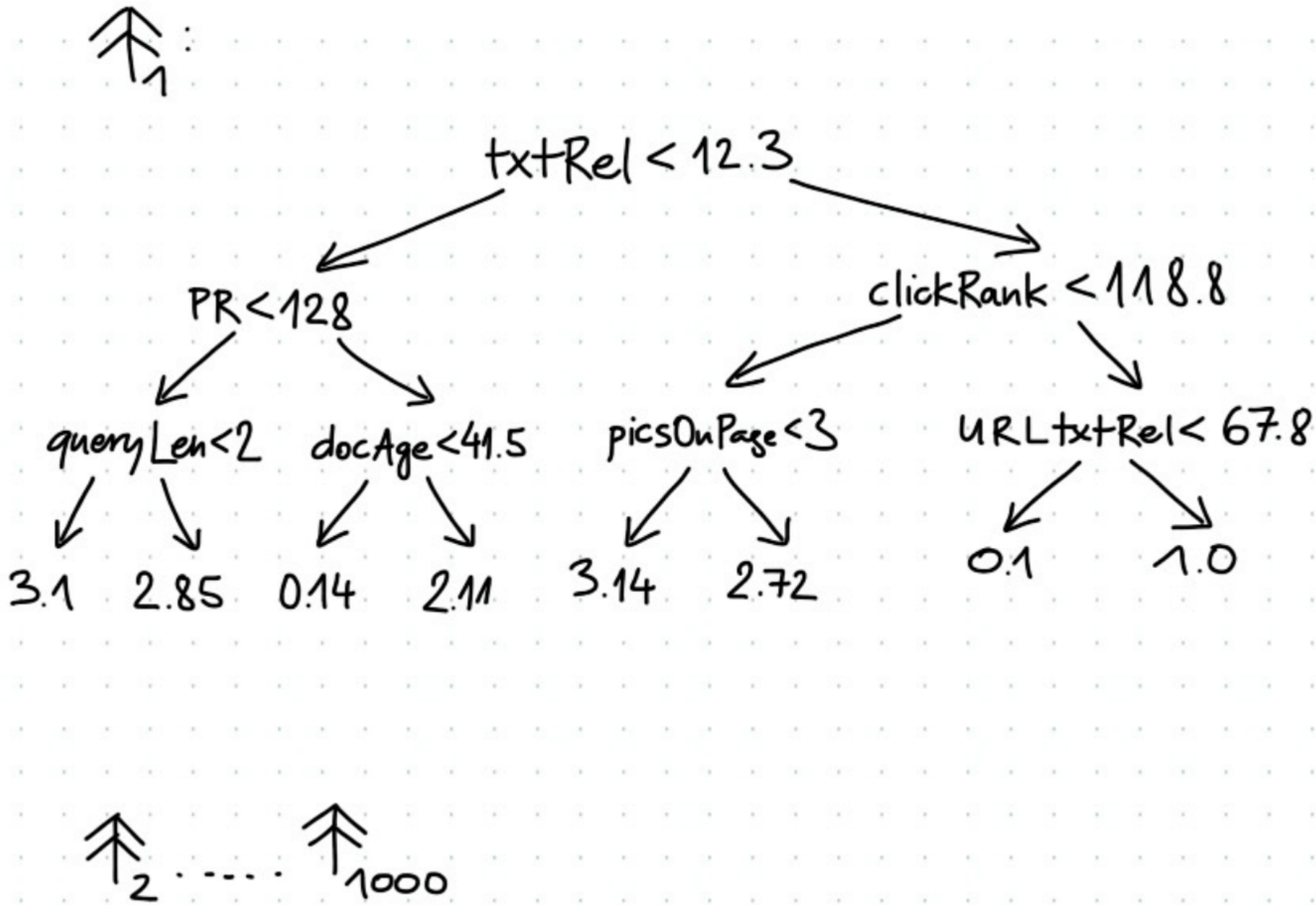
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PR<128
clickRank < 118.8
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docAge<41.5
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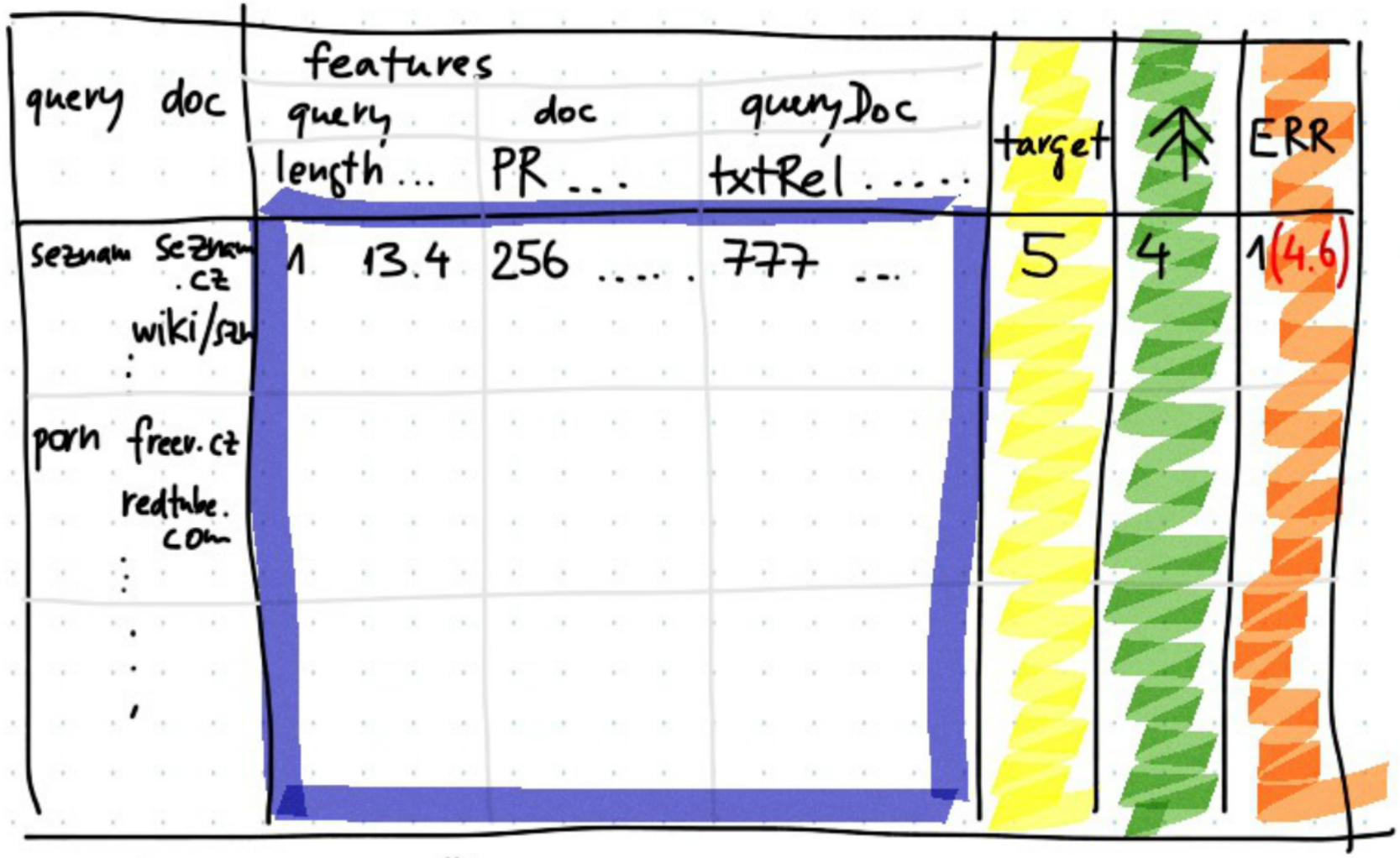
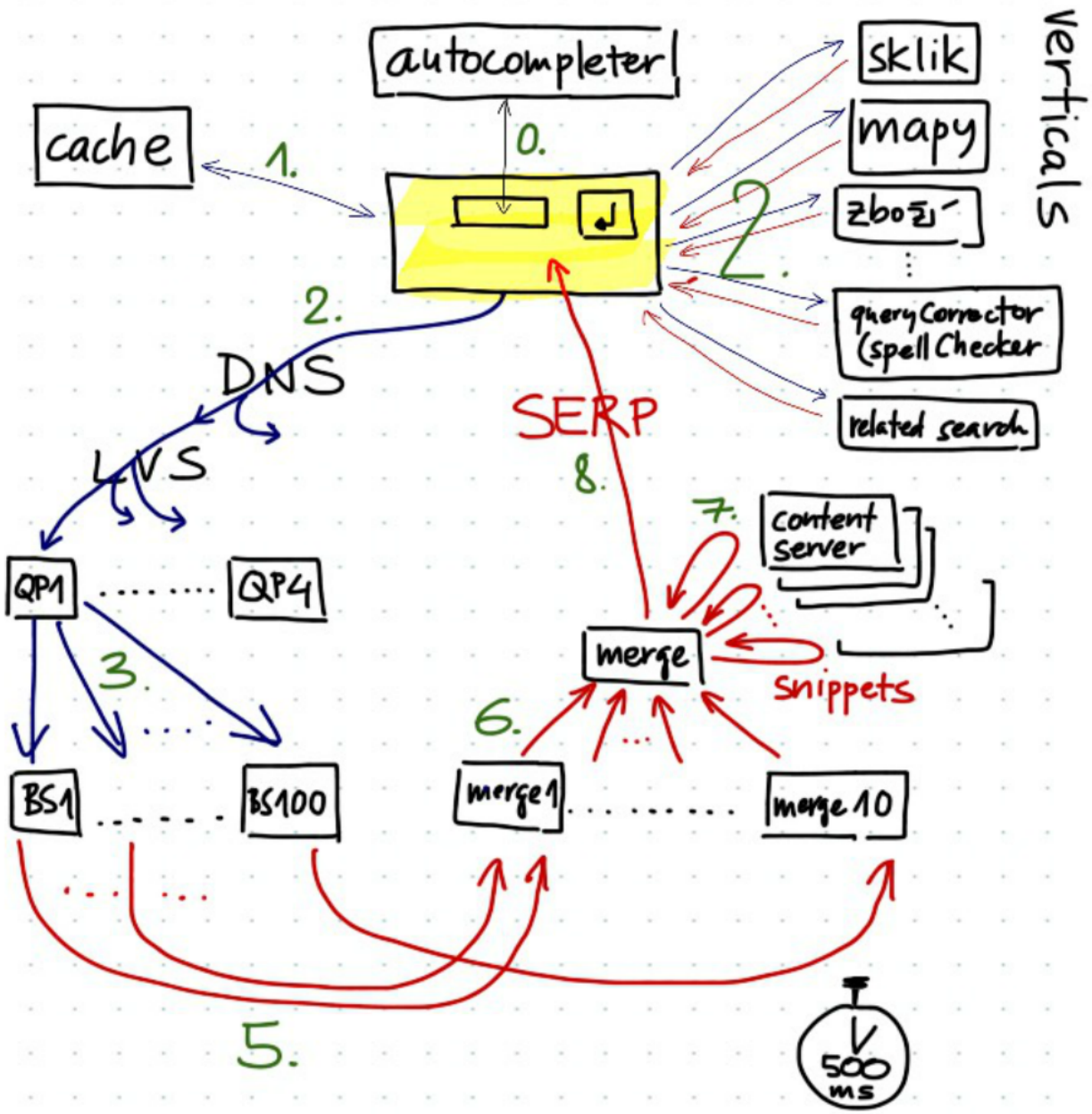
1000



$$ERR = target - \alpha \cdot \Uparrow_1 = target\ for\ next\ tree$$

$$relevancy = \left(\sum_{i=1}^{1000} \Uparrow_i\right) \cdot \alpha$$


autocompleter
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конец

roznik@gmail.com
roman.roznik@firma.seznam.cz
fulltext.sblog.cz
https://www.youtube.com/user/DusanJanovsky
http://cyber.felk.cvut.cz/research/theses/papers/471.pdf