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# VuFind Explain Addon 

By Dennis Schrittenlocher

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| Brehms Tierleb |  | Additional functions |
| :---: | :---: | :---: |
| Title: | Brehms Tierleben : allgemeine Kunde des Tierreichs / [Alfred E. Brehm] | 93 Cite this |
| Part: | 9: Wirbellose Thiere; Bd. 1. Die Insekten, Tausendfüßler und Spinnen / von E. L. Taschenberg | $\square$ Email this |
| Responsible: | Brehm, Alfred Edmund GND; Taschenberg, Ernst Ludwig GND | © Export |
| Edition: | Große Ausg., 2., umgearb. und verm. Aufl. | is Add to favourites |
| Published: | Leipzig [u.a.] : Bibliograph. Inst., 1877 |  |
| Extent: | xXX, 711 S. : Ill. |  |
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| Language: | German |  |
| Series/ Mutipart item: | Brehms Tierleben : allgemeine Kunde des Tierreichs / [Alfred E. Brehm] Show all volumes |  |

## How are titles found and what is relevance ranking?



Search: vufind

1st result: $2 x$ VuFind in title

- $\quad 1 x$ VuFind in description

2nd result: 1x VuFind in title
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## How are titles found and what is relevance ranking?

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Call Number: online resource (org) (free)
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## How are titles found and what is relevance ranking?



Search Results - vufind
Suggested Toplcs within your search.

Sorted by relevance?

Bibliothek (1) Information und Dokumentation (1) Information-Retrieval-System (1)

by Lahmann, André, Lahmann, André
Published 2016
"...Search, discover, share. 5. VuFind Anwendertreffen. am 11. und 12. Oktober
2016 in der UB Freiburg.
Call Number: online resource (free)
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## What is relevance

" $\mathrm{In} 4617.9854=$ max of: $\backslash \mathrm{n} 7.1759024$ = weight(allfields:vufind in 25554) [SchemaSimilarity], result of: $\ln 7.1759024=$ score(freq=7.0), computed as boost * idf * tf from: In $10.550706=$ idf, computed as $\log (1+(N-n+0.5) /(n+0.5))$ from: In $\quad 17=n$, number of documents containing term $\backslash n \quad 668576=N$, total number of documents with field $n \quad 0.68013483=t f$, computed as freq / freq $+\mathrm{k} 1{ }^{*}\left(1-\mathrm{b}+\mathrm{b}^{*} \mathrm{dl} /\right.$ avgdi) from: $\mathrm{n} \quad 7.0=$ freq, occurrences of term within document nn kith for engrom:ln $000=$ boostln $12.496612=i d f$ computed $\operatorname{siog}(1+(N-n+0.5) /(n+05))$ from: $n \quad 2=n$ number documents containing term)n $668573=$ $N$, 1.1 ,toantin $12=11$. document $1.2=k 1$, ,
 ( 10.0 boce la avgll, average 1.2 , If from: $\ln \quad 30.0=$ boost $\backslash n \quad 10.785979=$ idf, computed as $\log (1+(N-n+0.5) /(n+0.5))$ from $\cdot$ In $\quad 3=n$, number of documents containing term $\backslash n \quad 169183=N$,
 documentln $\quad 1.2=k 1$, term saturation parameterln $\quad 0.75=b$ length normalization parameter $\ n \quad 160=\mathrm{dl}$ length of field $\backslash \mathrm{n} \quad 5.167475=$ ovgdl average

 $750.0=$ boost $\backslash n \quad 12.496601=$ idf, computed as $\log (1+(N-n+0.5) /(n+0.5))$ from: $\backslash n \quad 2=n$, number of documents containing term $\backslash n \quad 668566=N$, tota
number of documents with field $\backslash n \quad 0.36613703=t f$, computed as freq $/\left(\right.$ freq $+k 1^{*}\left(1-b+b^{*} d l /\right.$ avgdII) from: $\ln \quad 1.0=$ freq, occurrences of term within number of documents with field $\backslash n \quad 0.36613703=t f, c o m p u t e d ~ a s ~ f r e q ~$$\left(\right.$ freq $+\mathrm{k} 1^{*}\left(1-\mathrm{b}+\mathrm{b}^{*} \mathrm{dl} / \mathrm{avgdl}\right)$ ) from: $\backslash \mathrm{n} \quad 1.0=$ freq, occurrences of term within
 $400.0=$ boost $\backslash n \quad 12.496612=$ idf, computed as $\log (1+(N-n+0.5) /(n+0.5))$ from: $\backslash n \quad 2=n$, number of documents containing term $\ln \quad 668573=N$, total $400.0=$ boost $\backslash n \quad 12.496612=\mathrm{idf}$, computed as $\log (1+(N-n+0.5) /(\mathrm{n}+0.5))$ from: $\mathrm{nn} \quad 2=\mathrm{n}$, number of documents containing term $\quad 668573=\mathrm{N}$, tr
number of documents with field $\backslash \mathrm{n} \quad 0.6159091=\mathrm{tf}$, computed as freq $/$ (freq $+\mathrm{k} 1^{*}\left(1-\mathrm{b}+\mathrm{b}^{*} \mathrm{dl} /\right.$ avgdl) ) from: $\backslash \mathrm{n} \quad 2.0=$ freq, occurrences of term within document \n $\quad 1.2=\mathrm{k} 1$, term saturation parameter $\backslash \mathrm{n} \quad 0.75=\mathrm{b}$, length normalization parameter $\backslash \mathrm{n} \quad 13.0=\mathrm{dl}$, length of field $\backslash \mathrm{n} \quad 12.351774=$ avgdl, average length of field $\backslash n 3345.6562=$ weight(title:vufind in 25554 ) [SchemaSimilarity], result of: $\backslash \mathrm{n} 3345.6562=$ score(freq $=2.0$ ), computed as boost * idf * tf from: In $500.0=$ boost $\backslash n \quad 12.49661=$ idf, computed as $\log (1+(N-n+0.5) /(n+0.5))$ from: n $\quad 2=n$, number of documents containing term $\backslash n \quad 668572=N$, total number of documents with field $\mathrm{n} \quad 0.5354502=\mathrm{tf}$, computed as freq / (freq $+\mathrm{k} 1^{*}(1-\mathrm{b}+\mathrm{b} * \mathrm{dl} /$ avgdl) ) from: $\mathrm{ln} \quad 2.0=$ freq, occurrences of term within document $\backslash \mathrm{n} \quad 1.2=\mathrm{k} 1$, term saturation parameter $\backslash \mathrm{n} \quad 0.75=\mathrm{b}$, length normalization parameter $\backslash \mathrm{n} \quad 13.0=\mathrm{dl}$, length of field $\backslash \mathrm{n} \quad 8.15232=$ avgdl, average length of field $\backslash n "$

## Solr:

## debug-explainOther

## What is relevance

4617.9854 = max of
7.1759024 = weight(allfields:vufind in 25554) [SchemaSimilarity], result of:
$7.1759024=$ score(freq=7.0), computed as boost ${ }^{*}$ idf ${ }^{*}$ tf from:
. $50706=$ idf, computed as $\log (1+(N-n+0.5) /(n+0.5))$ from:
$17=\mathrm{n}$, number of documents containing term
0.68013483 , tf computed as freq / freq + k1* ${ }^{*}(1$
$0.68013483=$ tr, computed as freq/(freq $+k 1^{*}\left(1-b+b^{*}\right.$ dl / avgdl)) from
$.0=f r$, occurrences of
$.75=$, term saturation parameter
$3440=$ dl length of field (approximate)
$344.0=$ dl, ength of field (approximate)
617.9854 = weight(title_full_unstemmed:vufind in 25554) [SchemaSimilarity], result of:
$4617.9854=$ score(freq $=2.0$ ), computed as boost ${ }^{*}$ idf ${ }^{*}$ tf from:
$4619.9854=$ sc
$600.0=$ boost
$12.496612=$ idf, computed as $\log (1+(N-n+0.5) /(n+0.5))$ from:
$2=n$, number of documents containing term
$2=n$, number of documents containing term
$668573=N$, total number of documents with field
$668573=\mathrm{N}$, total number of documents with field
$0.6158983=\mathrm{tf}$, computed as freq / (freq $+\mathrm{k} 1^{*}\left(1-\mathrm{b}+\mathrm{b}^{*} \mathrm{dl} /\right.$ avgdI)) from:
$2.0=$ freq, occurrences of term within document
$2.0=$ freq, occurrences of term weth
$1.2=k 1$, term saturation parameter
$0.75=\mathrm{b}$, length normalization parameter
$0.75=$ b, length normaliz
$13.0=$ dl, length of field
12.351032 = avgdl, average length of field
71.75931 = weight(allfields_unstemmed:vufind in 25554) [SchemaSimilarity], result of:
71.75931 = score(freq=7.0), computed as boost * idf * tf from:
$10.0=$ boost
$10.550706=$ idf, computed as $\log (1+(N-n+0.5) /(n+0.5))$ from:
$17=n$, number of documents containing term
$668576=\mathrm{N}$, total number of documents with field
$0.6801375=\mathrm{tf}$, computed as freq / (freq $+\mathrm{k} 1^{*}\left(1-\mathrm{b}+\mathrm{b}^{*} \mathrm{dl} /\right.$ avgdI) ) from: $7.0=$ freq, occurrences of term within document
$1.2=\mathrm{k} 1$, term saturation parameter
$0.75=\mathrm{b}$, length normalization parameter
$344.0=\mathrm{dl}$, length of field (approximate)
$103.474686=$ avgdl, average length of field
9.17941 = weight(series2:vufind in 25554) [SchemaSimilarity], result of:
79.17941 = score(freq=1.0), computed as boost * idf * tf from
$30.0=$ boost
$10.785979=$ idf, computed as $\log (1+(N-n+0.5) /(n+0.5))$ from:
$3=n$, number of documents containing term
$169183=N$, total number of documents with field
(freq + k1 * (1-b + b* dl / avgdl)) from

- 1 ,
.
16.0 = d length of field
$6.0=\mathrm{dl}$, length of field
5.167475 = avgdl, average length of field
3431.601 = weight(title_short:vufind in 25554) [SchemaSimilarity], result of $3431.601=$ score(freq $=1.0$ ), computed as boost ${ }^{*}$ idf ${ }^{*}$ tf from
$750.0=$ boost
$12.496601=$ idf, computed as $\log (1+(N-n+0.5) /(n+0.5))$ from:
$2=n$, number of documents containing term
$668566=N$, total number of documents with field
$1.0=$ freq, occurrences of term within document
$1.0=$ freq, occurrences of term within
$1.2=k 1$ term saturation parameter
$0.75=\mathrm{b}$, length normalization parameter
$8.0=$ dl, length of field
5.0306807 = avgdl, average length of field
3078.7107 = weight(title_full:vufind in 25554) [SchemaSimilarity], result of 3078.7107 = score(freq $=2.0$ ), computed as boost ${ }^{*}$ idf ${ }^{*}$ tf from:
$400.0=$ boost
$12.496612=$ idf, computed as $\log (1+(N-n+0.5) /(n+0.5))$ from: $2=n$, number of documents containing term
$668573=\mathrm{N}$ total number of documents with field
$0.6159091=\mathrm{tf}$, computed as freq / (freq $+\mathrm{k} 1^{*}\left(1-\mathrm{b}+\mathrm{b}^{*} \mathrm{dl} /\right.$ avgdl) ) from: $2.0=$ freq, occurrences of term within document
$1.2=\mathrm{k} 1$, term saturation parameter
$0.75=$ b, length normalization parameter
$13.0=$ dl, length of field
12.351774 = avgdl, average length of field
$3345.6562=$ weight(title:vufind in 25554) [SchemaSimilarity], result of:
$3345.6562=$ score(freq=2.0), computed as boost * idf * tf from:
$500.0=$ boost
$12.49661=$ idf, computed as $\log (1+(N-n+0.5) /(n+0.5))$ from
$2=n$, number of documents containing term
$668572=\mathrm{N}$, total number of documents with field
$0.5354502=$ tf computed as freq / (freq $+\mathrm{k} 1^{*}\left(1-\mathrm{b}+\mathrm{b}^{*}\right.$ d $/$ /avgdl) ) from:
$2.0=$ freq, occurrences of term within document
$1.2=$ k1, term saturation parameter
$0.75=\mathrm{b}$, length normalization parameter
$13.0=$ dl, length of field
8.15232 = avgdl, average length of field


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## Alternative visualization?

VuFind<br>Top Result Relevance: 163,79422

Explanation for search: vufind
Record ld: 399261710 found with a relevance value of $163,794.21$
Peorouct of 88.20 .75 (retevance value) " 19.00 (boost)
(boost) $=$ const(19)
$53.57 \%$ "vufind" in: title_full_unstemmed (explain_fieldName_title_full_unstemmed), with a modifier of 600 $5.92 \%$ "vufind" in: titie_short (explain_fieldaname_utie_short), with a modifier of 750
$15.52 \%$ "vufind" in: title (explain_fieldName_title), with a modifier of 500
$14.29 \%$ "vufind" in: title_full (explain_fieldName_title_full) , with a modifier of 400
$0.37 \%$ "vufind" in: series2 (explain_fieldName_series2) , with a modifier of 30
$0.33 \%$ "vufind" in: allfields unstemmed (explain fieldName_allields_unstemmed), with a modifier of 10 $0.00 \%$ "vufind" in: allields (), with a modifier of 0.0
$4617.9554=$ max off:
$7.1759024=$ weight

 $17=5$, , ummer of do cuments containing term
$668576=1$, , total number of documents $w$ wit
 $7.0=$ freq, occurrences of term within
$1.2=k 1$, term saturation parameter
 $103.473274=$ = aved fld (approximate)
$4617.9854=$ weightititite_fectul_unstemmedivilufnd in 25554) [Schemasimilarity, result of:
 $60.00=$ bocst
$12.496612=$ ifff. computed as $\log (1+(\mathbb{N}-n+0.5) /(n+0.5))$ from $2=n$. number of documents containing terin
$668573=\mathrm{N}$, total number of documents with field
$0.615888=\mathrm{t}$, computed as freq $/$ (freq $+\mathrm{k} 1+\left(1-\mathrm{b}+\mathrm{b}^{*}\right.$ dil avgdi) ) from:
$2.0=$ freq, occurrences of term within document
$1.2=\mathrm{k} 1$, term saturation parameter
$0.75=\mathrm{b}$, , length nom nomization parameter

 1.75931 scorerefrea 7.0 , computed as boost ${ }^{*}$ idf ${ }^{*}$ t f from:
10.0 boost
$10.55006=$ idf. computed as log $(1+(\mathrm{N}+\mathrm{n}+0.5) /(n+0.5))$ from:
$17=n$, number of of documents containing term $17=\mathrm{n}$, number of documents containing term
$668576=\mathrm{N}$, total number of documents with fie
$0.6801375=\mathrm{ff}$, computed as freq $/$ (freq $+\mathrm{k} 1 *(1-\mathrm{b}+\mathrm{b} * \mathrm{dil} /$ avgal) ) from
7.0 $1.2=k 1$, term saturation parameter
 $344.0=$ dI, lenth of feld dapproximate)
$103.474686=$ avgd, average length of field
$79.17941=$ weightseries 2: ivantind in 255544 I Schemasimiarity), result of: $30.144=$ boost
$10.78979=$
$10.785979=$ idf. computed as $\log (1+(\mathbb{N}-\mathrm{n}+0.5)(\mathrm{n}+0.5)$ fro
$3=n$, number of documents containing term



$0.75=$ b, lengh nommalizatit
16.0 dil. ength of field


$750.0=$ boost
$12.496601=$ idff, computed as $\log (1+(\mathbb{N}-n+0.5) /(n+0.5))$ from


$1.2=\mathrm{kk}$, term saturation parameter
$0.75=\mathrm{b}$, , length nommalization parameta
$8.0=$ di.l. enghth of ffald
5.0306807 avaion parameter
average length of field

$3078.7107=$ scoref(freq-2.0), computed as boost ${ }^{*}$ idf ${ }^{*}+\mathrm{tf}$ from:
$40.0=$ boons
$12.496612=$ idf. computed as $\log (1+(\mathbb{N}-n+0.5) /(n+0.5)$ ) from:
$2=$ n. number of documents containing term $2=n$, number of documents contaning term
$668573=\mathrm{N}$, total number of documents wit

$2.0=$ freq. occurrences of term within
$1.2=k 1$, term saturation parameter

$12.351774=$ engh of held


$50.0=$ boost
$12.4966=$ idf. computed as $\log (1+(N-n+0.5) /(n+0.5)$ from
$2=0$
$2=\mathrm{n}$, number of documents containing term
$668572=\mathrm{N}$, total number of documents with

2.0 =req, occurrences of term within document
$1.2=k 1$, term saturation parameter
$1.2=k 1$, term saturation param eter
$0.75=$ b, length nommalization parameter
$0.25=$ b. lenth nommaii
$13.0=2$ li, lenth of field
$8.15232=$ avgell average
8.15232 = avgll, average length of field
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## With explain:

Overfiew of relevance-score
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| Published 2013 |
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## With explain:

General idea of relevance-score

## Most common course




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## Detailed Explanation

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## Three way explanation

Top Result Relevance: $138,372.31$
Explanation for search: vufind
Record Id: 399261710 found with a relevance value of $138,372,31$
Product of $7,282.75$ (relevance value) * 19.00 (boost)
(boost) $=$ const(19)
$63.41 \%$ "vufind" in: titile_full_unstemmed (explain_fieldName_title_full_unstemmed) , with a modifier of 600 $18.85 \%$ "vufind" in: : title_short (explain_fieldName_title_short), with a modifier of 750
$16.91 \%$ "vufind" in: title_full (explain_fieldName__title_full), with a modifier of 400
$0.43 \%$ "vufind" in: series2 (explain_fieldName_series2), with a modifier of 30
$0.39 \%$ "vufind" in: allfields_unstemmed (explain_fieldName_allields_unstemmed), with a modifier of 10
$0.00 \%$ "vufind" in: title (explain_fieldName_titile), with a modifier of 0.1
$0.00 \%$ "vufind" in: allfields (), with a modifier of 0.0

Explanation in text-form
Brakedown of relevance score


Pie-chart
Graph of text explanation

## Overall relevance

Relevance-score in relation to max relevancescore

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## Examples



Zwei Poelzigschüler in der Emigration: Rudolf Hamburger und Richard Paulick zwischen Shanghai und Ost-Berlin (1930-1955) (Hamburger China, Polen, Schweiz, Iran, UdSSR),,(Paulick - China Published 2007
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Zwei Poelzigschüler in der Emigration Rudolf Hamburger und Richard Paulick zwischen Shanghai und Ost- Berlin (1930-1955); (Hamburger China, Polen, Schweiz, Iran, UdSSR), (Paulick - China) by Kögel, Eduard 1960
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Drache und Kreuz in China Nachrichtenblatt des Chinamissionsbundes Published 1910
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Avatilable
Neue deutsche Außenpolitik: Netzwerke statt Allianzen by Flemes, Daniel 1974-, Flemes, Daniel 1974-, Ebert, Hanne
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Published 1973
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Explain


## Detailed example

Explanation for search: hamburg berlin china
Record Id: 211536474 found with a relevance value of $106,144.01$
Product of $5,586.53$ (relevance value) * 19.00 (boost)
(boost) $=$ const(19)
$33.25 \%$ "china" in: title_full_unstemmed (explain_fieldName_title_full_unstemmed), with a modifier of 600 $19.37 \%$ "hamburg" in: title_short (explain_fieldName_title_short), with a modifier of 750
$16.60 \%$ "berlin" in: title_short (explain_fieldName_title_short), with a modifier of 750 $8.67 \%$ "china" in: title_full (explain_fieldName_title_full) , with a modifier of 400 6.77\% "hamburg" in: title_full (explain_fieldName_title_full), with a modifier of 400
$5.82 \%$ "china" in: geographic (explain_fieldName_geographic), with a modifier of 300
$5.54 \%$ "berlin" in: title_full_unstemmed (explain_fieldName_title_full_unstemmed), with a modifier of 600 $3.60 \%$ "berlin" in: title_full (explain_fieldName_title_full), with a modifier of 400
$0.30 \%$ "china" in: allfields_unstemmed (explain_fieldName_allfields_unstemmed), with a modifier of 10 $0.08 \%$ "berlin" in: allfields_unstemmed (explain_fieldName_allfields_unstemmed), with a modifier of 10 $0.00 \%$ "china" in: title (explain_fieldName_title), with a modifier of 0.1
$0.00 \%$ "hamburg" in: title (explain_fieldName_title), with a modifier of 0.1
$0.00 \%$ "berlin" in: title (explain_fieldName_title), with a modifier of 0.1
$0.00 \%$ "china" in: allfields (), with a modifier of 0.0
$0.00 \%$ "berlin" in: allfields (), with a modifier of 0.0
$0.00 \%$ "hamburg" in: allfields (), with a modifier of 0.0

Zwei Poelzigschüler in der Emigration: Rudolf Hamburger und Richard Paulick zwischen Shanghai und Ost-Berlin (1930-1955) (Hamburger China , Polen, Schweiz, Iran, UdSSR), (Paulick - China )

## Published 2007




Relevance in comparison to the relevance of the top result


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## Detailed example

## Explanation for search: hamburg berlin china

Record Id: 192583492 found with a relevance value of $90,431.62$ Product of $4,759.56$ (relevance value) * 19.00 (boost)
(boost) $=$ const(19)
$40.31 \%$ "china" in: title_full_unstemmed (explain_fieldName_title_full_unstemmed), with a modifier of 600 $20.52 \%$ "hamburg" in: title_full (explain_fieldName_title_full), with a modifier of 400
$16.94 \%$ "berlin" in: title_full_unstemmed (explain_fieldName_title_full_unstemmed), with a modifier of 600 $10.51 \%$ "china" in: title_full (explain_fieldName_title_full), with a modifier of 400
$6.83 \%$ "china" in: geographic (explain_fieldName_geographic) , with a modifier of 300
4.40\% "berlin" in: title_full (explain_fieldName_title_full), with a modifier of 400
$0.37 \%$ "china" in: allfields_unstemmed (explain_fieldName_allfields_unstemmed), with a modifier of 10 $0.10 \%$ "berlin" in: allfields_unstemmed (explain_fieldName_allfields_unstemmed), with a modifier of 10 $0.00 \%$ "china" in: title (explain_fieldName_title), with a modifier of 0.1 $0.00 \%$ "hamburg" in: title (explain_fieldName_title), with a modifier of 0.
$0.00 \%$ "berlin" in: title (explain_fieldName_title), with a modifier of 0.1
$0.00 \%$ "china" in: allfields (), with a modifier of 0.0
$0.00 \%$ "berlin" in: allfields ( ) , with a modifier of 0.0
$0.00 \%$ "hamburg" in: allfields ( ) , with a modifier of 0.0

Zwei Poelzigschüler in der Emigration Rudolf Hamburger und Richard Paulick zwischen Shanghai und Ost- Berlin (1930-1955): (Hamburger China, Polen, Schweiz, Iran, UdSSR), (Paulick - China)

## by Kōgel, Eduard 1960-



t title_full_unstemmed600 (china)<br>title_full400 (hamburg)<br>title full unstemmed600 (berlin)<br>title_full400 (china)<br>geographic300 (china)<br>title_full400 (berlin)<br>allfields_unstemmed10 (china)

alfields0.0 (hamburg)

Relevance in comparison to the relevance of the top result


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## Detailed example

## Explanation for search: hamburg berlin china

Record Id: 211705071 found with a relevance value of $85,062.78$
Fioduct of $4,476.99$ (relevance value) * 19.00 (boost)
boost) $=$ const(19)
$72.81 \%$ "china" in: title short (explain fieldName title short), with a modifier of 750
$15.81 \%$ "china" in: title_full_unstemmed (explain_fieldName_title_full_unstemmed), with a modifier of 600
$10.30 \%$ "china" in: title_full (explain_fieldName_title_full) , with a modifier of 400
$0.55 \%$ "hamburg" in: allfields_unstemmed (explain_fieldName_allfields_unstemmed), with a modifier of 10
$0.33 \%$ "china" in: allfields_unstemmed (explain_fieldName_allfields_unstemmed), with a modifier of 10 $0.19 \%$ "berlin" in: allfields_unstemmed (explain_fieldName_allfields_unstemmed), with a modifier of 10 $0.00 \%$ "china" in: title (explain_fieldName_title), with a modifier of 0.1
$0.00 \%$ "china" in: allfields () , with a modifier of 0.0
$0.00 \%$ "berlin" in: allfields (), with a modifier of 0.0
$0.00 \%$ "hamburg" in: allfields (), with a modifier of 0.0

China aktuell journal of current Chinese affairs
Published 1972


title_short750 (china)<br>- title_full_unstemmed600 (china)<br>- title_full400 (china)<br>allfields unstemmed10 (hamburg)<br>allields_unstemmed 10 (china)<br>allields_unstemmed10 (berlin)<br>title0.1 (china)<br>allields 0.0 (china)<br>allfields 0.0 (berlin)<br>alltields 0.0 (hamburg)

Relevance in comparison to the relevance of the top result


## Detailed example



Relevance in comparison to the relevance of the top result


## Match 3

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Relevance in comparison to the relevance of the top result


Match 4

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## Detailed example

## Explanation for search: hamburg berlin china

Record Id: 451613511 found with a relevance value of $13,353.04$
Product of 702.79 (relevance value) * 19.00 (boost)
(boost) $=$ const(19)
53.93\% "china" in: geographic (explain_fieldName_geographic) , with a modifier of 300 $42.88 \%$ "berlin" in: geographic (explain_fieldName_geographic), with a modifier of 300 $1.33 \%$ "hamburg" in: allfields_unstemmed (explain_fieldName_allfields_unstemmed), with a modifier of 10 $1.32 \%$ "china" in: allfields unstemmed (explain fieldName allfields unstemmed), with a modifier of 10 $0.54 \%$ "berlin" in: allfields_unstemmed (explain_fieldName_allfields_unstemmed), with a modifier of 10 $0.00 \%$ "china" in: allfields () , with a modifier of 0.0
$0.00 \%$ "berlin" in: allfields (), with a modifier of 0.0
$0.00 \%$ "hamburg" in: allfields ( ) , with a modifier of 0.0

Neue deutsche Außenpolitik: Netzwerke statt Allianzen

## by Flemes, Daniel 1974-, Flemes, Daniel 1974-, Ebert, Hannes

## Published 2016


geographic300 (berlin) - allfields unstemmed 10 (hamburg) allields_unstemmed10 (china) allfields_unstemmed10 (berlin) - allfields 0.0 (china) $\square$ allields 0.0 (berlin)
allfields 0.0 (hamburg)

Relevance in comparison to the relevance of the top result

|  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: |
| 0 | 20,000 | 40,000 | 60,000 | 80,000 | $106,144.010$ |

## hebis.

## Detailed example

Explanation for search: hamburg berlin china
Record Id: 011039353 found with a relevance value of 606.08
Product of 31.90 (relevance value) * 19.00 (boost)
(boost) $=$ const(19)
45.79\% "china" in: allfields_unstemmed (explain_fieldName_allfields_unstemmed), with a modifier of 10 $35.39 \%$ "hamburg" in: allfields_unstemmed (explain_fieldName_allfields_unstemmed), with a modifier of 10 $18.82 \%$ "berlin" in: allfields_unstemmed (explain_fieldName_allfields_unstemmed), with a modifier of 10 $0.00 \%$ "china" in: allfields ( ), with a modifier of 0.0
$0.00 \%$ "berlin" in: allfields (), with a modifier of 0.0
$0.00 \%$ "hamburg" in: allfields ( ) , with a modifier of 0.0

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Düsseldorf
Published 1973


Relevance in comparison to the relevance of the top result
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## Adjusting searchspecs

## Allfields:

DismaxFields:

- title_short^750
- title_full_unstemmed^600
- title_full^400
- title^500
- title_alt^200
- title_new^100
- series^50
- series2^30
- author^300
- contents^10
- topic_unstemmed^550
- topic^500
- geographic^300
- genre^300
- allfields_unstemmed^10
- fulltext_unstemmed^10
- allfields
- fulltext
- description
- isbn
- issn
- long_lat_display

DismaxHandler: edismax

## Example move result

1
Zwei Poelzigschüler in der Emigration: Rudolf Hamburger und Richard Paulick zwischen Shanghai und Ost-Berlin (1930-1955) (HamburgerChina, Polen, Schweiz, Iran, UdSSR), (Paulick - China)
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Explain


## Example move result

1 Zwei Poelzigschüler in der Emigration: Rudolf Hamburger und Richard Paulick zwischen Shanghai und Ost-Berlin (1930-1955) (Hamburger China, Polen, Schweiz, Iran, UdSSR), (Paulick - China)
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## * Save to List

 Explain
## Example move result



Zwei Poelzigschuler in der Emigration: Rudolf Hamburger und Richard Paulick zwischen Shanghai und Ost- Berlin (1930-1955) (Hamburger China, Polen, Schweiz, Iran, UdSSR), (Paulick - China )
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## Changing searchspecs



Search: Darwin

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## Changing searchspecs

## Explanation for search: darwin

Record Id: 054153050 found with a relevance value of $110,545.01$
Product of $5,818.16$ (relevance value) * 19.00 (boost)
(boost) $=$ const(19)
62.79\% "darwin" in: title_full_unstemmed (explain_fieldName__title_full_unstemmed), with a modifier of 600 20.17\% "darwin" in: title (explain_fieldName_title), with a modifier of 500
$16.74 \%$ "darwin" in: title_full (explain_fieldName_title_full), with a modifier of 400
$0.30 \%$ "darwin" in: allfields_unstemmed (explain_fieldName_allfields_unstemmed), with a modifier of 10 $0.00 \%$ "darwin" in: allfields ( ) , with a modifier of 0.0


## Explanation for search: darwin

Record Id: 335881793 found with a relevance value of $48,657.93$
Product of $2,560.94$ (relevance value) * 19.00 (boost)
(boost) $=$ const(19)
$78.40 \%$ "darwin" in: title_full_unstemmed (explain_fieldName_title full unstemmed), with a modifier of 600 20.91\% "darwin" in: title_full (explain_fieldName_title_full), with a modifier of 400
$0.70 \%$ "darwin" in: allfields_unstemmed (explain_fieldName_allfields_unstemmed), with a modifier of 10 $0.00 \%$ "darwin" in: allfields ( ) , with a modifier of 0.0

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## Changing searchspecs



## hebis.

## Changing searchspecs

Explanation for search: darwin
Record ld: 054153050 found with a relevance value of $88,256.5$
Product of $4,645.08$ (relevance value) * 19.00 (boost)
(boost) $=$ const(19)
$78.65 \%$ "darwin" in: title_full_unstemmed (explain_fieldName_title_full_unstemmed), with a modifier of 600
20.97\% "darwin" in: title_full (explain_fieldName_title_full), with a modifier of 400
$0.37 \%$ "darwin" in: allfields_unstemmed (explain_fieldName_allfields_unstemmed), with a modifier of 10
$0.01 \%$ "darwin" in: title (explain_fieldName_title), with a modifier of 0.1
$0.00 \%$ "darwin" in: allfields (), with a modifier of 0.0


Explanation for search: darwin
Record Id: $\mathbf{3} 35881793$ found with a relevance value of $48,657.93$
Record id: of $2,560.94$ (relevance value) * 19.00 (boost)
(boost) $=$ const(19)
$78.40 \%$ "darwin" in: title_full_unstemmed (explain_fieldName_title_full_unstemmed), with a modifier of 600 $20.91 \%$ "darwin" in: title_full (explain_fieldName_title_full) , with a modifier of 400
$0.70 \%$ "darwin" in: allfields_unstemmed (explain_fieldName_allfields_unstemmed), with a modifier of 10 $0.00 \%$ "darwin" in: allfields ( ) , with a modifier of 0.0


## Config: min_percent and max_fields

Top Result Relevance: 1.43
Explanation for search: hamburg berlin china
Record Id: HEB211536474 found with a relevance value of 1.31
20.39\% "xina" in: topic ( )
20.39\% "tSina" in: topic ()
rest
$12.98 \%$ "hamburk" in: title (explain_fieldName_title)
$12.97 \%$ "hanburk" in: title (explain_fieldName_title)
12.97\% "amburk" in: title (explain_fieldName_title)
$12.97 \%$ "anburk" in: title (explain_fieldName_title)
$5.44 \%$ "berlin" in: title (explain_fieldName_title), with a modifier of 500
0.94\% "xina" in: title (explain_fieldName_title)
$0.94 \%$ "tSina" in: title (explain_fieldName_title)
0.00\% "china" in: allfields ()
$0.00 \%$ "berlin" in: allfields ()
Relevance in comparison to the relevance of the top result
$59.22 \%$ sum



Adds a rest which contains all fields with percentages lower then min_percent or if there are more fields the max_fields, then it contains the extra ones.

## Why „Helix Joe Biden" => „Brehms Tierleben"

Top Result Relevance: 0.00
4. Sippe: Sacttäger, अโ̣atinen . . $\because$. . 390

Psyche helix390
Mobreufopi (Psyche unicolor) ..... 391
3. Sippe: গamphatimen ..... 355
Silberftrid), ßaifermantel (Argynnis pa- phia) ..... 355
(53rober: Permutterfalter (Argynnis Aglaja) ..... 355
Schecfenfalter (Melitaea) ..... 356
Bjauenjpiegel (Vanessa Jo) ..... 356
Momiral (Vanessa Atalanta) ..... 356
4. Sippe: Celampimen ..... 292
Omalus auratus, Elampus aeneus, biden- tulus ..... 293
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## References:

Example VuFind system hosted by hebis (w/o explain): https://ubffm.hds.hebis.de/
Demo VuFind9 with explain:
https://hds.hebis.de/vufind-demo/Search/Results?lookfor=hamburg+berlin+china

Inspiration, presentation , Rafal Kuc, Solr.pl, Eurocon 2011:
https://www.youtube.com/watch?v=PwJNFHRDpVQ
Soure of graphic library: https://www.chartis.org/

Butterfly image: https://interlinking.bbf.dipf.de/index.php/Ad99998 04 029c

## Contact

Questions: p2_fragen@hebis.de

