

# Welcome to SHEBANQ

## User Guide

last updated 2015-04-21

[download as pdf](#)



**Wido van Peursen**, leader of ETCBC. Initiator and strategic leader.



**Oliver Glanz, Andrews University**. ETCBC data expert, contributing numerous queries for teaching.



**Dirk Roorda, DANS**. Author of most of the code.

System for HEBrew Text:  
ANnotations for Queries and Markup  
funded by  
[CLARIN-NL, The Language Archive](#)



SHEBANQ relies on data and tools created by



**Eep Talstra**, founder of ETCBC. Still computing (Pascal): participant data in the making.



**Constantijn Sikkel**, data designer for ETCBC. Inventor of efficient data creation work flows.



**Janet Dyk**, linguist at ETCBC. Long-time data contributor, specialized in verbal valence and language variation.



**Reinoud Oosting**, data designer for Leiden University. Contributed ETCBC data, now key user.



**Ulrik Sandborg-Petersen**, creator of Emdros. Without it, SHEBANQ would not exist!

contributors in the past



**Henk van den Berg, DANS**. Programmed the first versions.



**Heleen van de Schraaf**, then [DANS](#). Programmed the first user interface.

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**Read the *Text***

you start with the passage where you left off (in this browser)

select a *version* of the ETCBC database

select a Bible book

show a dialog to go to other chapters - press **Esc** to dismiss

view **text** or choose an alternative style

SHEBANQ

The Text

Words

Queries

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Log In ▾

show words

show queries

show relevant words and *queries*

*students/teachers:*

go directly to this chapter in **Bible OL.**



Over there are links to carry you **back to SHEBANQ**



etcbc 4

4b

4s

Genesis 1

text

Dirk

31 versos

בראשית בָּרוּא אֱלֹהִים אֶת הַשְׁמִינִים וְאֶת הַאָדָם:  
וְהָאָדָם קִיַּתָּה תְּהוֹל וּבָהוּ וְחַשֵּׁךְ עַל-פִּנֵּי תְּהוֹם  
וְרֻיחָה אֱלֹהִים מִרְחַפֶּת עַל-פִּנֵּי הַמִּים:

וַיֹּאמֶר אֱלֹהִים יְהִי אוֹר וַיֹּהִי אוֹר:

וַיֹּרֶא אֱלֹהִים أֲنֹהָר  
בֵּין הָאָר וּבֵין הַחַשֵּׁךְ:

וַיֹּקְلֵא אֱלֹהִים וְלֹאָרֶן

choose chapter

1	2	3	4	5	6
7	8	9	10	11	12
13	14	15	16	17	18
19	20	21	22	23	24
25	26	27	28	29	30
31	32	33	34	35	36
37	38	39	40	41	42
43	44	45	46	47	48
49	50				

hint: click a verse number for an interlinear display of linguistic data

Context items for this chapter

words with highlighted occurrences

queries with highlighted hits

click author to go to query and all hits

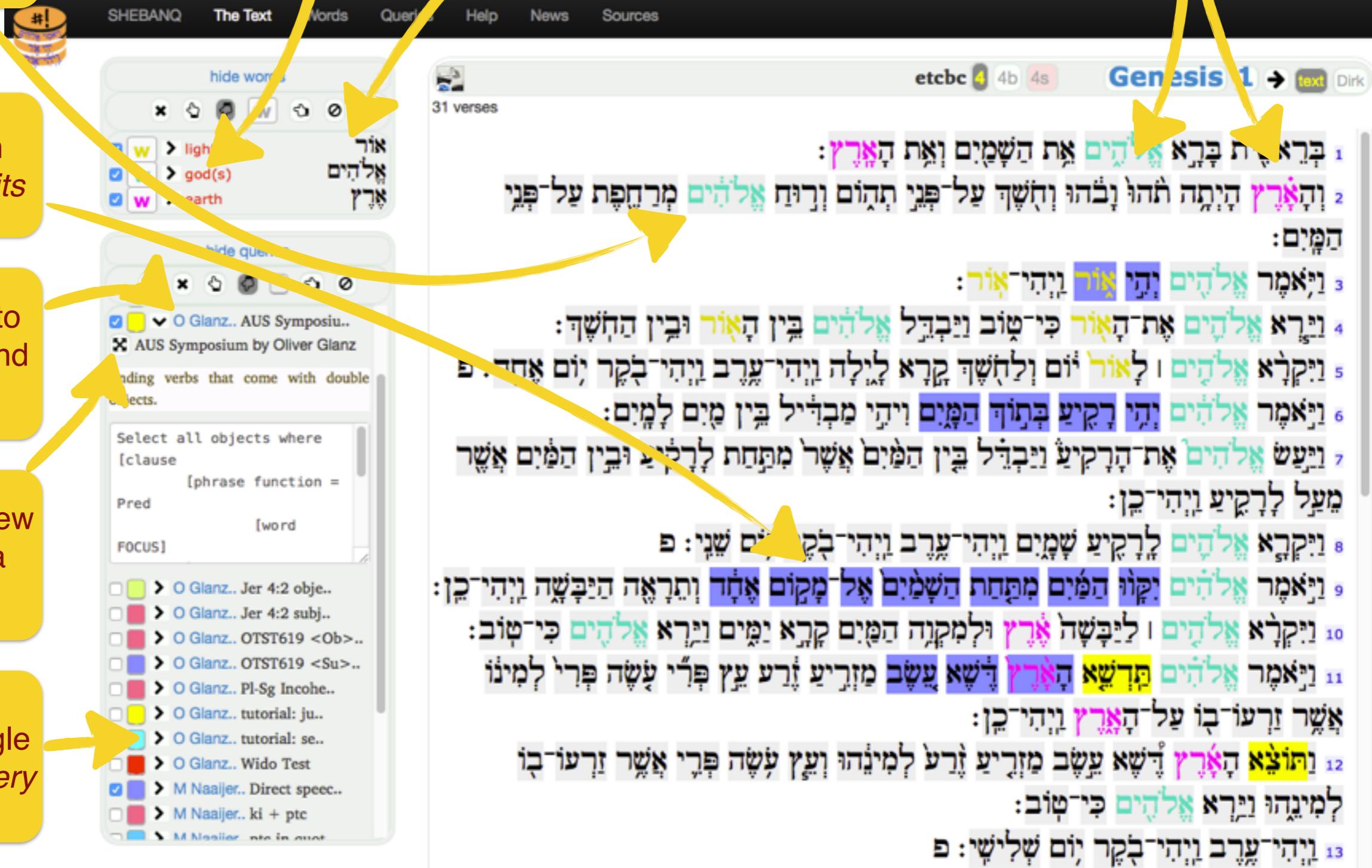
enlarge preview of query in a pop-up

click > to toggle preview of query

click **gloss** to toggle preview of word

click **entry** to go to word and all occurrences

click **any word** to toggle its highlight



Show the  
Data

show/hide an  
entire row

show/hide a  
single feature

click the **labels** to jump to  
*feature documentation*

click the **verse numbers** to  
view/hide the data

etz-od 4 4b 4s Genesis 1 text Dir legend

31 verses

בְּרֹאשֵׁית בָּרָא אֱלֹהִים אֶת הַשְׁמִינִים וְאֶת הָאָרֶץ:  
וְקֹדֶם לְהַלְלוֹ וּבָהֶוּ וְחַשְׁךְ עַל־פְנֵי תְהוָם וְרֻיחַ אֱלֹהִים מְרַחֲפָת עַל־פְנֵי הַמְּקוֹם:

אָזֶן  
אָזֶן  
יְהִי  
אֱלֹהִים  
יֹאמֶר  
אָזֶן

CP  
NP  
VP  
NP  
VP  
CP

NayX 200  
ZYqX 999  
ZYqX 999  
WayX 472  
WayX 472  
WayX 472

legend

text  
lexeme-v  
lexeme-c  
gloss

checkboxes for: text, lexeme-v, lexeme-c, gloss, lexical set, part-of-speech, language, monad#, gender, number, person, state, tense, verbal stem, nme, pfm, prs, uvf, vbe, vbs, rela, subphrase#, determination, function, type, rela, rela\_a, phrase\_a#, phrase#, txt, type, rela, tab, code, clause\_a#, clause#, sentence\_a#, sentence#

click legend to select features

אָזֶן:  
אָזֶן  
יְהִי:  
הַיְהָ]  
אָזֶן:  
אָזֶן  
יְהִי:  
הַיְהָ]

NP  
VP

WayX 200  
WayX 200  
WayX 200

וַיֹּאמֶר אֱלֹהִים אֶת־הָאָזֶן כְּיַצְלֹב נִיבְגָּל אֱלֹהִים בְּרִיא  
וַיֹּאמֶר אֱלֹהִים וְלֹא־יְהִי יוֹם וְלֹא־יְהִי לְילָה וְיְהִי

4  
5



## Queries

full text search on organization, project, people and queries

This is your dashboard for queries.  
Find the queries ordered by organization, then project, then user.  
Then act: preview, generate a link, edit, go to the results page.



SHEBANQ

The Text

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simple advanced

Filter

dirk

filter applied

all with children (6)

in my queries

clear filter

Level

organizations (0)

projects (0)

users (6)

queries (34)

manual

quickly expand/collapse the tree to a specific level

click the triangles to expand and collapse

- ▼  Shared Queries
  - ▼  DANS
  - shebanq
  - Test Project
  - ▼  ETCBC2
  - ▼  Data and Tradition
    - ▼  Dirk Roorda
      - [לְתַלְיָה וּלְוִצְאֵת](#)
      - [לְתַלְיָה וּלְוִצְאֵת](#)
  - ▼  LAF-Fabric
    - ▼  Dirk Roorda
      - [Yesh](#)
  - ▼  Test Project
    - ▼  Dirk Roorda
      - [gil](#)
  - ▼  VU Amsterdam
    - ▼  SynVar
    - ▼  Dirk Bakker
      - [Comparatives](#)

+ Enter new query

click the + to enter a new query

preview/edit the description of this query right here by clicking the i / pencil icon

generate a mark-down hyperlink to this query to be used in the description of an other query

click on the name of the query to go to the page of this query to edit and run it

## Queries - more info

without a filter, you can quickly select your own queries and your unpublished queries

simple advanced

### Filter

dirk

filter applied

all matches (4)

**all with children** (4)

in all queries

in my queries

in private queries

clear filter

### Level

organizations (0 2)

projects (0 4)

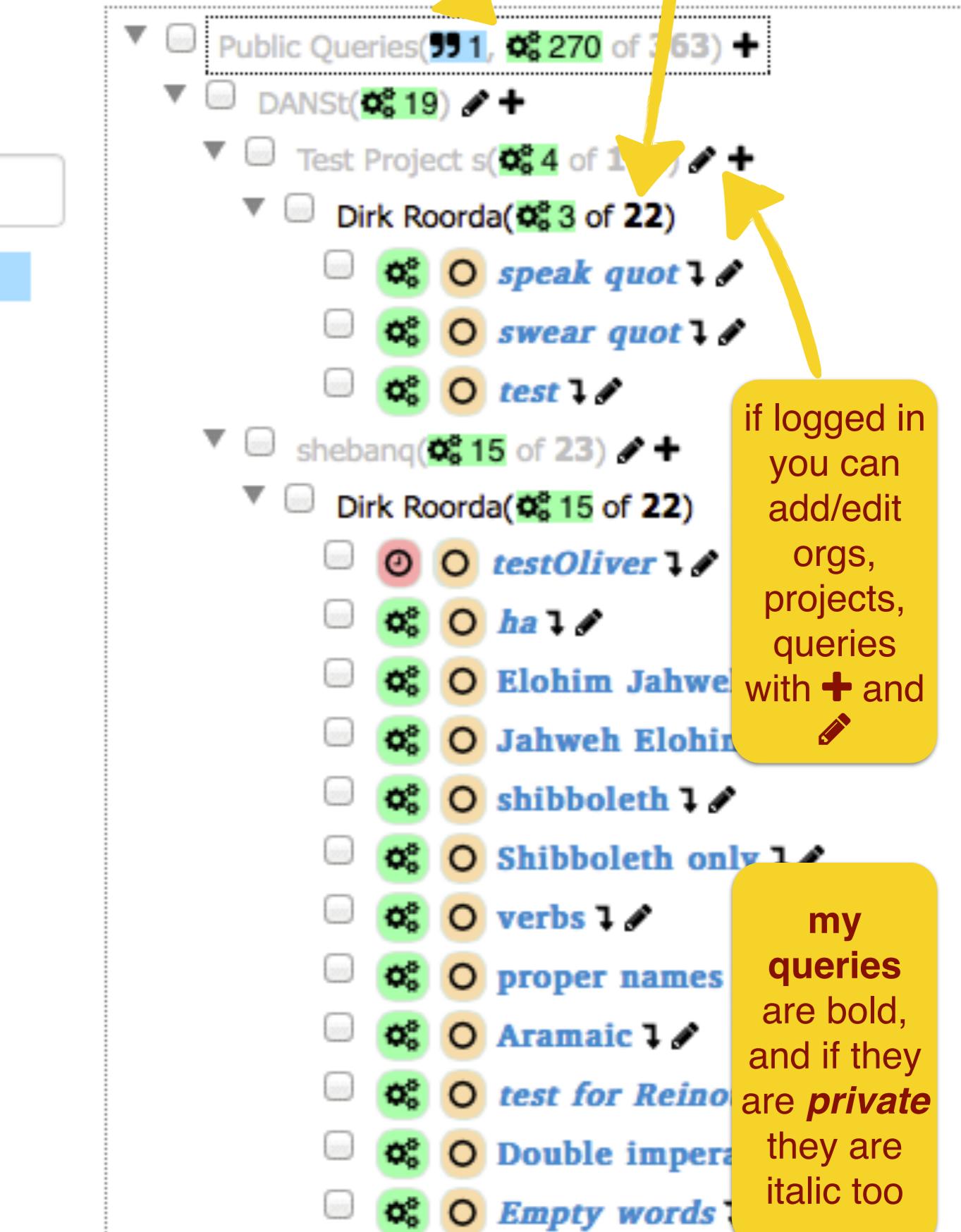
users (4 0)

queries (22)

manual

# of queries that are *published* (↳) or up to date (⚙️).

# queries of this organization, project or user



# queries/matches in the levels. The **bold** number indicates real matches, the grey number indicates how many items there are with a match in its subtree

my queries are bold, and if they are *private* they are italic too

## Queries - muting

If you feel overwhelmed by the amount of queries showing up in the sidebar, you can use **muting** to suppress them.

use *checkboxes to mute* queries, so that they do not show up in the sidebar. You can also mute organizations and projects in one click.

your mutings are not stored on the server but on your browser

simple advanced

### Filter

dirk

no filter applied

all with children

in my queries

### Level

organizations (16)

projects (29)

users (43)

queries (363)

manual

- ▼  Public Queries +
- Projects without Queries +
  - ▼  DANSt +
  - Test Projects +
  - shebanq +
  - ▼  ETCBC +
  - Test Projects +
  - shebanq +
  - Poetic Patterns +
  - Jeremiah Research +
  - Participants in Psalms +
  - AUS\_OTST686 +
  - Book of Isaiah (D&T) +
  - LAF-Fabric +
  - Data and Tradition +
  - VU Amsterdam +
  - Andrews University +
  - Uni Mainz +
  - Didier Fontaine +
  - +
  - Calvin Theological Seminary +
  - Offene Bibel +
  - United Bible Societies +
  - Bibelwissenschaft +
  - Universidad Adventista del Plata +
  - Universidad Adventista del Plata +
  - Bible Online Learner +
  - Dallas Theological Seminary +

## Notes

You and other can add free-text annotations to every single clause in the text.



SHEBANQ

The Text

Words

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simple advanced

### Filter

aap

all matches

all with children

in all notes

### Level

users (2)

notes (13)

manual

use *checkboxes* to **mute** queries, so that they do not show up in the sidebar.  
You can also mute organizations and projects in one click.

your mutings are not stored on the server but on your browser

See later how to actually view, add, edit and delete notes

Shared Notes( 13 )		
Karel Doorman( 3 )		
1	-	aap ↓
1	-	fjm ↓
2	-	xpa ↓
Dirk Roorda( 10 )		
-	1	>LHJM ↓
-	1	aa ↓
-	1	aap ↓
-	1	check ↓
-	1	locatives ↓
4	1	ntn ↓
1	-	xpa ↓
-	1	txt ↓
-	1	אָבִיךְרֵז ↓
1	-	אָבִיךְרֵז ntn ↓

You can give keywords to notes. The combination of a user and a keyword represents a *note set*. These note sets behave a lot like queries in SHEBANQ. They can show up next to the passages which contain their individual notes.

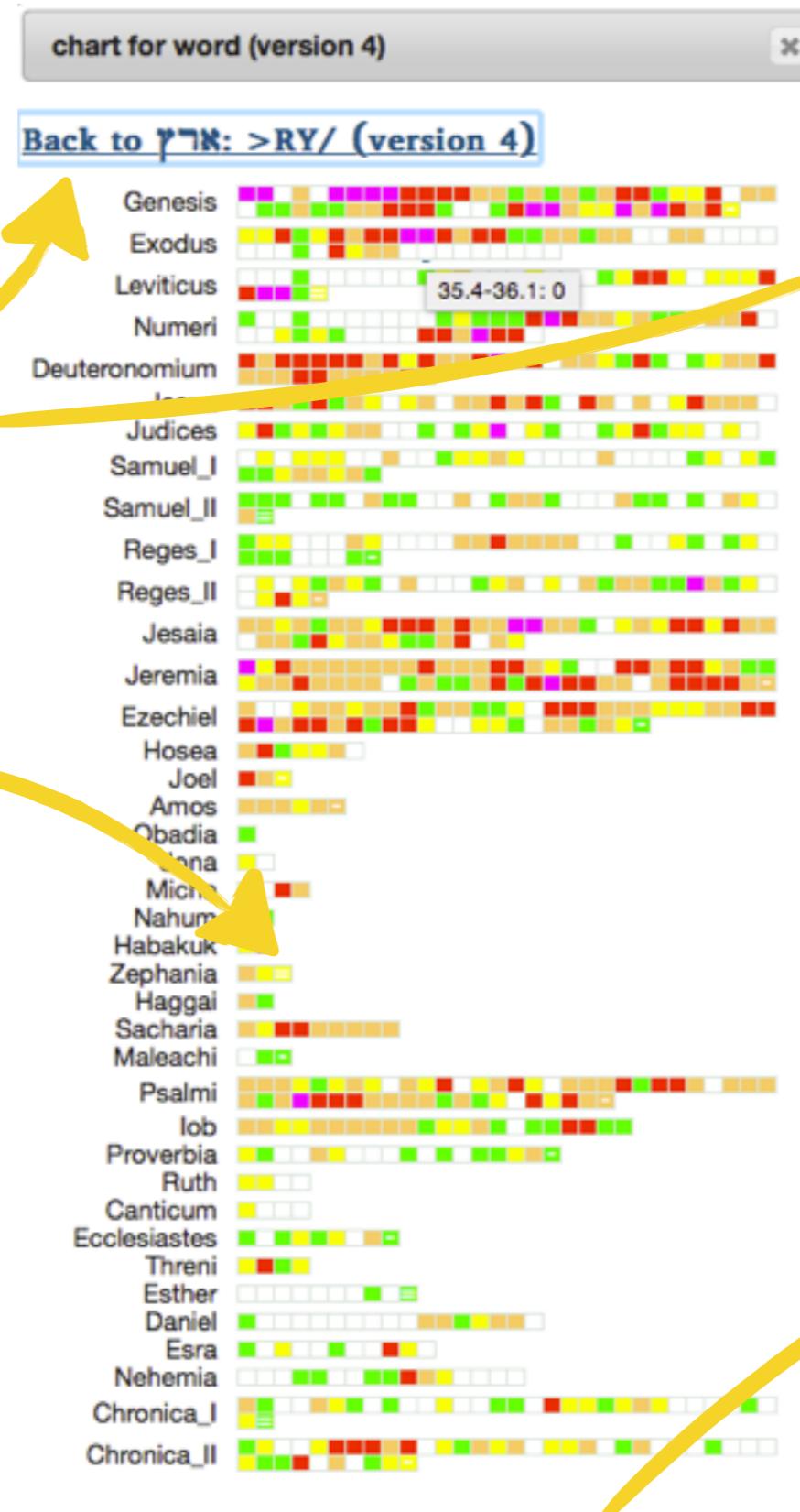
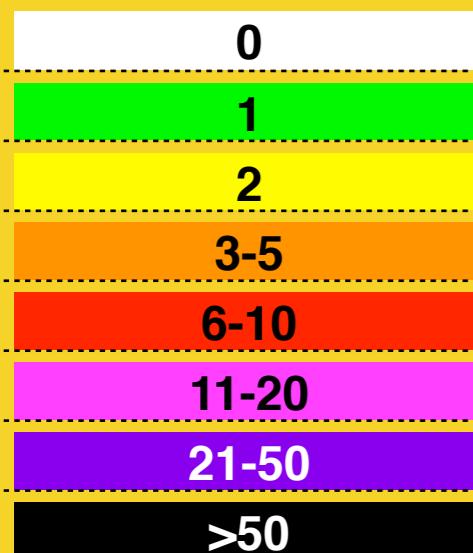
Charts show you where in the Bible the word occurrences and query results are

Back to the word or query you came from

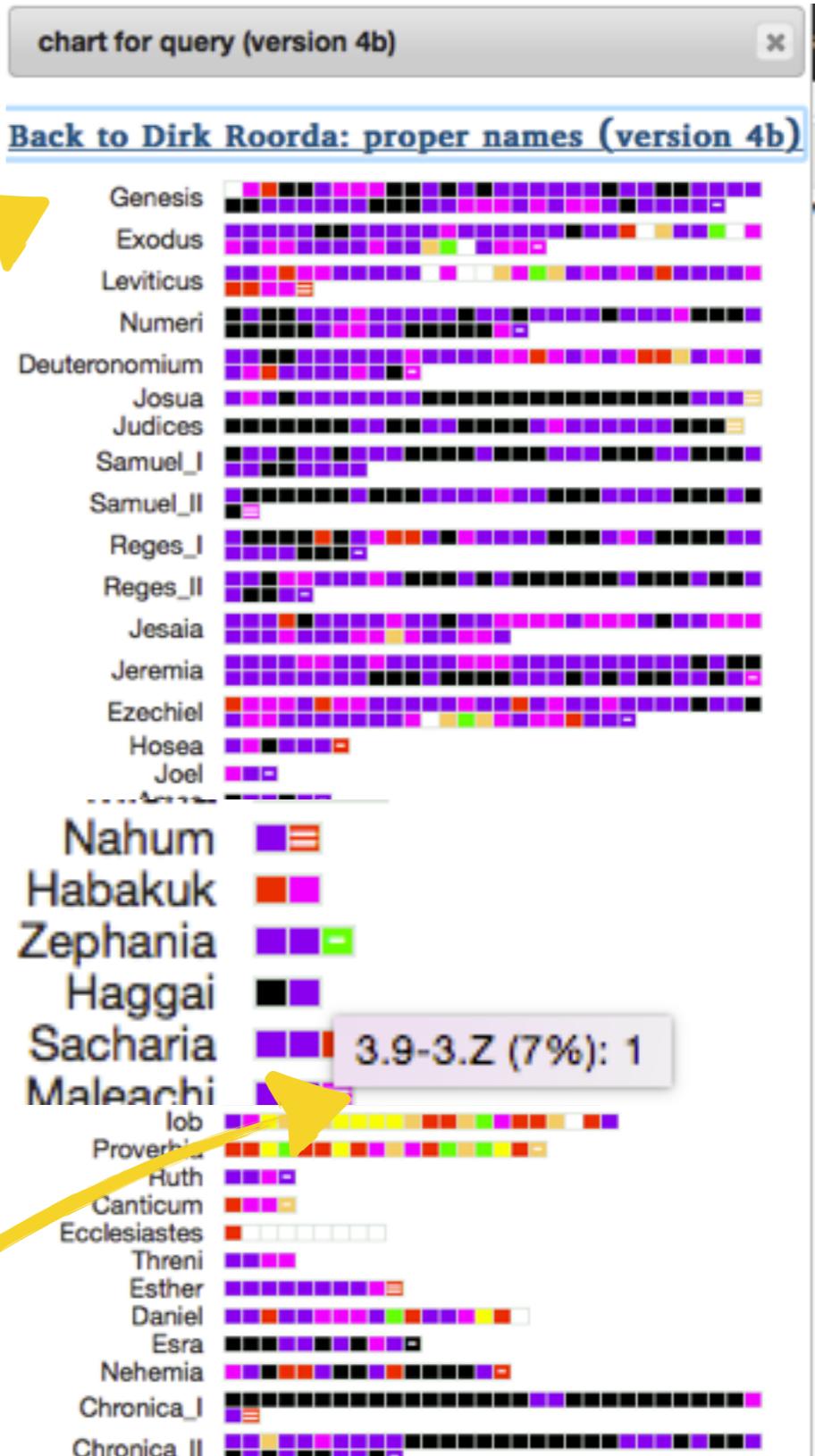
Every **cell** corresponds to a block of 500 words. Clicking it leads you to it.

**Hover** to see the chapter range and the amount of hits/occurrences

The **color** in the cell indicates the *absolute* number of results / occurrences in that block



Last blocks of a book have lesser size. The size is indicated in a tooltip (%) and the block is marked with = (< 25%) or - (between 25% and 75%)



**Chapter ranges:**  
 23.Z = chapter 23, last word  
 23.z = chapter 23, at position >95%  
 23.6 = chapter 23, at position 60%

view chart

etcbc 4 4b 4s

Dirk Roorda: נָתַן and locatives 1 → text Dirk legend

3081 words in 833 verses on 42 pages

Genesis 1: 17

נתן and locatives

Dirk Roorda ETCBC Data and Tradition

Complements of נתן

Subject

A special case in the quest for valence patterns: נתן with Pred + Objc +

> shared ✓ 2015-03-09 11:44:53

▼ 4 objects where

// it is a pity that we have  
to enumerate all 6  
permutations

status

results up to date

Download results or occurrences as spreadsheet

Every word occupies a separate row.  
There are always fixed columns for book name, chapter #, verse #.

Custom columns as selected in legend

Default columns: word number, hebrew text

רְקִיעַ	בָּ	אֱלֹהִים	אַתָּם	נָתַן	וְ
firmament	in	Gods	you are	gave	
PP 5	PP 5	WayX 200	WayX 200	WayX 200	WayX 200
InfC 64	InfC 64	VP 1	VP 1	PP 5	PP 5
the	upon	be light	to	heavens	the

the whole list will be exported, not just this page

The csv files open best in Open Office.  
Excel struggles with the Unicode/utf8.  
Numbers (Apple) works reasonably.

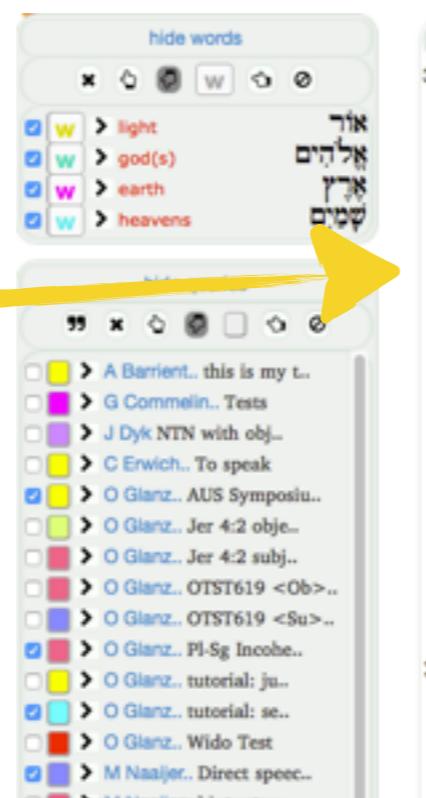


Share what you see

A chapter page  
including the  
customized coloring

A query or query  
version provided the  
query is shared

A word from the  
lexicon



etcbe 4 4b 4s Genesis 1 → text Dirk

31 verses

בראשית בָּקָר אֱלֹהִים אֶת הַשָּׁמְיִם וְאֶת הָאָרֶץ:  
וְהָאָרֶץ קִנְתָּה תְּהֻלָּה וְלֹשֶׁךְ צָלִיפְנֵי תְּהֻמָּה וְרוּחָה אֱלֹהִים מְרֻחֶפֶת עַל־קְנִיָּה:  
וַיֹּאמֶר אֱלֹהִים וְיֹאֲרֵן וְיֹאֲרֵן:  
וַיֹּרֶא אֱלֹהִים אֶת־הָאָרֶץ כִּי־טוֹב מִבְּקָל אֱלֹהִים בֵּין סְחָשָׁד:  
וַיֹּקְרָא אֱלֹהִים לְאָרֶן יוֹם וְלֹחֶשׁ קָרָא לִילָה וְיִהִירָב וְיִהִירָב יוֹם אַחֲרָה: פ  
וַיֹּאמֶר אֱלֹהִים וְתִי בְּקַשְׁ בְּתוֹךְ הַפְּנִים וְתִי פְּכַלֵּל בֵּין טַוִּים לְטַוִּים:  
וַיֹּעֶשׂ אֱלֹהִים אֶת־הַקְּרִיעָה נִבְקָל בֵּין הַפְּלִיטִים אֲשֶׁר מְפֻתָּח לְרָקִיעַ וּבֵין הַפְּלִיטִים אֲשֶׁר  
מְפֻלָּל לְרָקִיעַ וּבְיִרְכָּנוּ:  
וַיֹּקְרָא אֱלֹהִים לְרָקִיעַ שָׁמְיִם וְיִהִירָב וְיִהִירָב יוֹם שְׁנִי: פ  
וַיֹּאמֶר אֱלֹהִים וְקַוְוּ הַמְּלִימִים מִפְתָּח הַשָּׁמְיִם אַחֲרָה וְסַרְאָה הַיּוֹשֶׁבָה וּבְיִרְכָּנוּ:  
וַיֹּקְרָא אֱלֹהִים לְיִקְשֵׁל אָרֶץ וְלִמְקֹעה הַפְּנִים קָרָא נִפְרִים נִירָא אֱלֹהִים כִּי־טוֹב:  
וַיֹּאמֶר אֱלֹהִים קָרְשָׁא קָרְשָׁא עַשְׂבָּם מְזֻרִיעַ זָרָע עַזְּבָּרְעַת פְּרִי לְמִינְיוֹן

ןַּעַן and locatives

Dirk Roorda ETCBC Data and Tradition

Complements of נַּעַן

Subject

A special case in the quest for valence patterns: **ןַּעַן** with Pred + Objc +

> shared  2015-03-09 11:44:53

select all objects where

// it is a pity that we have to enumerate all 6 permutations

status results up to date

published  2015-04-09 10:41:07

results 937

words 3081

modified 2015-03-09 11:44:53

executed 2015-03-09 11:44:53

vocalized  W

switch to this version

▼ 4 ■■■ E

אָרֶן

consonantal

disambiguated

vocalized

consonantal

disambiguated

part-of-speech

lexical set

proper noun category

language hbo

gloss light

▼ 4 ■■■ E

Click **cite** in the drawer in the lower right corner

Then choose from the available options.

query v      query      page view

This query has been published. If that happened more than a week ago, it can be safely cited. It will not be changed anymore.

The results of this query have been obtained after the query body has been last modified

Hint: copy the page content and paste it in an email or in Evernote. For personal hands-on work!

Genesis 15: 7

וַיֹּאמֶר אֵלָיו יְהֹוָה  
לְרָקִיעַ וְלְאָרֶץ  
• Cite

## Versions



31 verses

etcbc 4

4b

4s

Genesis 1

text

Dirk

legend

We provide access to **multiple versions** of the data. Results that you obtain now, will remain available, even when newer versions of the data are added to SHEBANQ.

ה	את	אלֹהִים אלֹהִים/	בָּיִת	בְּ
ה	את	god(s)	create	beginning
the	<object marker>			in
PP 4	PP 4	NP 3	VP 2	PP 1
xQtX 0	xQtX 0	xQtX 0	xQtX 0	xQtX 0
ארץ:	ה	את	?	שמיים
ארץ/	the	<object marker>	and	שמיים/
earth				heavens
PP 4	PP 4	PP 4	PP 4	PP 4
xQtX 0	xQtX 0	xQtX 0	xQtX 0	xQtX 0

2014-07-14: First version of the ETCBC4 database in SHEBANQ [The data for this version is a snapshot. At some locations the encoding is not yet finished. We needed a reasonable version then because of the deadline for SHEBANQ as a project.]

Work on the ETCBC database is ongoing. The text itself does not change much, but the coding of **linguistic annotations** is not yet completed. It is a combination of manual work and programming. While the coding at the lower levels (word, phrase) will not change much, work at the level of clause, sentence, paragraph, discourse is not finished.

**Version 4** is a snapshot of the best data available when SHEBANQ was released. **Version 4s** will be a new, stable release of the ETCBC data, expected in 2015. **Version 4b** is an intermediate version, which will be updated several times until **4s** comes in production. It is not backed up in an archive and should not be used to *publish* queries. Its purpose is to enable you to see how the ETCBC team is filling the gaps in the data.

## Versions and Words

etccbc 4 4b 4s

Aramaic Hebrew

אָבִי

834 words

father	אָבָּ	אָבָּוֹס	אָבִידָעַ	אָבִימָאֵل	אָבִישׁוֹר
bud	אָבָּ	<uncertain>	אָבִיהָ	אָבִימֶלֶךְ	אָבִישׁלוֹם
Abagtha	אָבָּנְחָתָא	אָבָּטְחִים	אָבִיחָדָוָה	אָבִינְדָּבָה	אָבָּקָר
perish	אָבָּטִיחָ	אָבָּטִיחָ	אָבִיהָוָא	אָבִינְעָםָה	אָבָּלָר
what is lost	אָבָּדָה	אָבָּיָה	אָבִיהָוָדָה	אָבִיסָףָה	אָבָּלָל

There are many changes in the lexicon. The older version misses a lot of glosses for proper names.

etccbc 4 4b 4s

Aramaic Hebrew

אָבִי

832 words

father	אָבָּ	אָבָּוֹס	אָבִיהָוָה	אָבִינְדָּבָה	אָבָּקָר
bud	אָבָּ	<uncertain>	אָבִיהָוָא	אָבִינוֹעָםָה	אָבָּלָר
Abagtha	אָבָּנְחָתָא	אָבָּטִיחָ	אָבִיהָוָדָה	Eblasaph	אָבָּלָמָעָה
perish	אָבָּדָה	אָבָּיָהָלְבָוָן	אָבִיהָילָה	Ablezer	אָבָּלָשִׁיטִים

On word pages, you can switch from version to version.

etccbc 4 4b 4s > B / אָב : text Dirk

1215 occurrences in 1061 verses on 54 pages

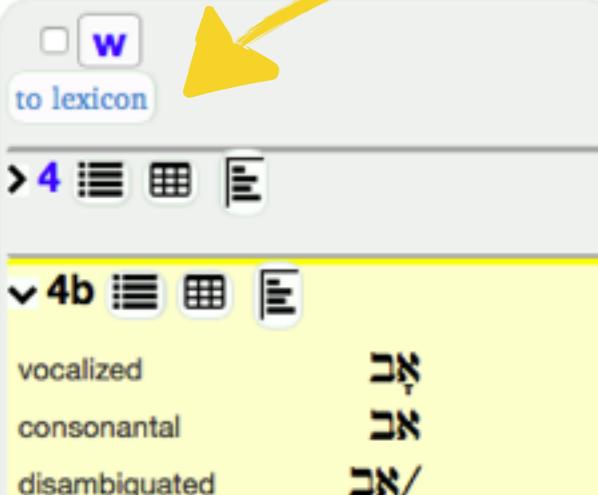
Genesis 2: 24

עַל־כֵּן יַעֲזֹב־אִישׁ אֶת־אָבִיו וְאֶת־אֶמוֹ וְדַקֵּק בְּאַשְׁתָּוֹ וְהִי לְבָשָׂר אֶחָד:

Genesis 4: 20

וְתַלְדֵּר עֲרָה אֶת־יִבְלֵל הַוָּא הַזֶּה אָבִי יַשְׁבֵּן אַחֲלָל וְמַקְנָה:

Genesis 4: 21



## Versions and Queries

You can run queries on all available versions of the data.

If needed, you can adapt the MQL to each version: very query has a version dependent part and a version independent part.

you can **share** a query as a *whole*, so that other can see it

you can **publish** an *individual version* of a query, so that it can be cited.

The MQL and the results of a published query will be **frozen** (hence the icy color). You cannot edit or re-execute a published query.

It takes one week before a published query version gets frozen. During that week you can still *un-publish* it.

Published Version	Shared Version
status: results up to date	status: shared
published: 2015-04-09 10:41:07	published: 2015-03-09 11:44:53
results: 937	
words: 3081	
modified: 2015-03-09 11:44:53	
executed: 2015-03-09 11:44:53	

3081 words in 833 verses on 42 pages

לְהָרִץ:  
בְּזֶרֶעׂ זָרֶעׂ אֲשֶׁרׂ עַל־פָנֵי כָל־הָאָרֶץ:  
כִּם יִהְיֶה לְאַכְלָה:

לֹאֵלֶךְ נָעַ וְנָדַף תְּהִיא בָּאָרֶץ:

קִינָקׂ עַשְׂבָּנָתִי לְכֶם אַתְּ-כָלְלָה:

יְנִין פְנֵין הָאָרֶץ:

וְתָהָאָדָץ הַגָּאת נִיכְזָב שֵׁם מִזְבֵּחַ לִיהְוָה

Number of query results

Number of words in query results

הַולֵּד עֲרִירִי וּבְנוּ-מִשְׁקָב בִּיתֵּי הָאָ

Click the version numbers to switch versions.

ודְבִיבִיתִי יוֹרֵשׂ אָתִי:

## Versions and Notes

Individual notes are always comments to a particular clause in a particular version of the data.

Note sets may contain notes on all versions of the data.

You can set individual notes as **shared** and/or **published**. You refer to them by the sets they are in i.e. by the combination of user and keyword. Shared and published sets can grow and shrink, but published items cannot be removed from sets anymore.

The screenshot shows the ETCBC4 interface with three versions of a clause from Genesis 1:2. The top version is 'etcbc' (4b, 4s), the middle is '4b', and the bottom is '4'. Each version has its own note set table.

**Version etcbc (4b, 4s):** Contains four notes. The first note (blue dot) is empty. The second note (blue dot, 'aap') is labeled 'noot'. The third note (red cross, 'ntn') is labeled 'wrong coding in Objc'. The fourth note (blue dot, 'txt') is labeled 'look at text alignment'. A yellow callout points to the '4' button with the text: 'Click the version numbers to switch versions.'

**Version 4b:** Contains one note (blue dot, 'locatives') with the text 'we need to look at ... as well'. A yellow callout points to the '4b' button with the text: 'Number of notes, annotated clauses and annotated verses in this version'.

**Version 4:** Contains one note (blue dot, 'ntn') with the text 'this is an exemplary case'. A yellow callout points to the '4' button with the text: 'Number of notes, annotated clauses and annotated verses in this version'.

The interface includes a sidebar with navigation links: 'to notes overview', 'author: Dirk Roorda', 'keyword: ntn', 'notes: 4', 'clause\_atoms: 3', 'verses: 2' (under etcbc); and 'notes: 1', 'clause\_atoms: 1', 'verses: 1' (under 4b). It also includes a 'ETCBC4 feature doc' and 'ETCBC4 transcription table (pdf)' link.

## Share or Publish queries?

When you **share** a query, others can see what you are doing, in all of its versions

You can modify a **shared** query; you can run all (unpublished) versions of it

You can **un-share** a query any time (provided it has no published versions).

A merely **shared** query is unsuitable for citing in journal articles

When you **publish** a query version, you and other can cite it plus its results

You cannot modify a **published** query version; you can not run that version

You cannot **un-publish** a query version (except within a week after publishing it).

You can add other query versions next to a published version; you can still modify the query *description*.

Query versions are published independently from each other

A **published** query *version* is suitable for citing in journal articles. Its MQL body and results are frozen. It may become part of the scholarly record.

The screenshot shows a software interface for managing query versions. At the top, there is a header with the text 'בְּנִין and locatives' and 'Dirk Roorda ETCBC Data and Tradition'. Below the header, there are sections for 'Complements of בְּנִין' and 'Subject'. A note states: 'A special case in the quest for valence patterns: בְּנִין with Pred + Objc +'. There are two main entries listed:

status	results up to date
published	2015-03-09 11:44:53

Below this entry, there are icons for selecting all objects where the query is true, and a note: 'select all objects where // it is a pity that we have to enumerate all 6 permutations'.

status	results up to date
published	2015-04-09 10:41:07
results	937
words	3081
modified	2015-03-09 11:44:53
executed	2015-03-09 11:44:53

At the bottom, there is another section labeled '4b' with similar fields:

status	never executed
published	_____
results	None

At the very bottom, there is a 'Guides' link.

## Citation

**Chapter links** are links in which the particular view settings by you are encoded. You can show other people the page as you see it.



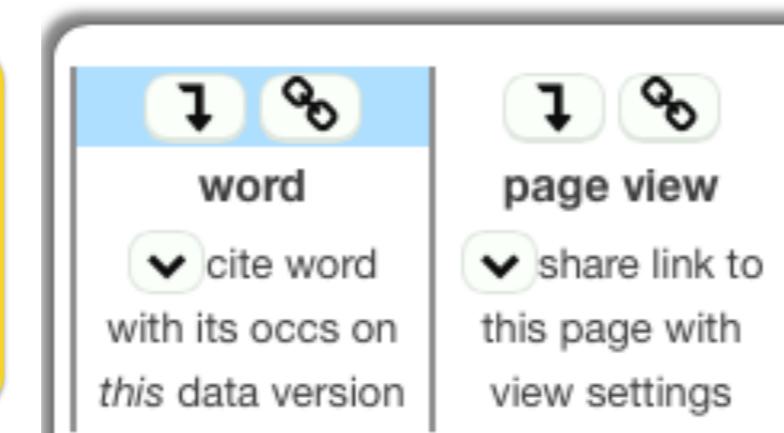
↓ offers you a markdown link  
[title] (<http://shebang...>)

You can paste this in query descriptions. SHEBANQ then shows them as friendly hypertext links.

🔗 offers you the url only  
<http://shebang...>

You can use this for Twitter, email, citations.

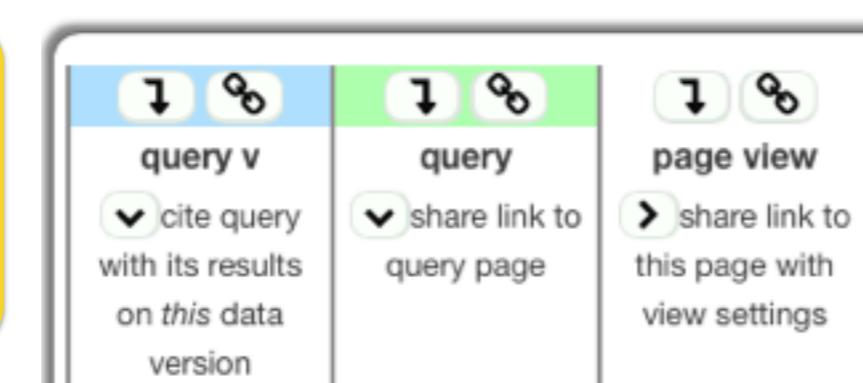
**Word links** are links to pages for individual words and all their occurrences. A word is tied to a particular *version* of the data.



You receive warnings if you ask a link to an **unshared** query or to an **unpublished** query version.

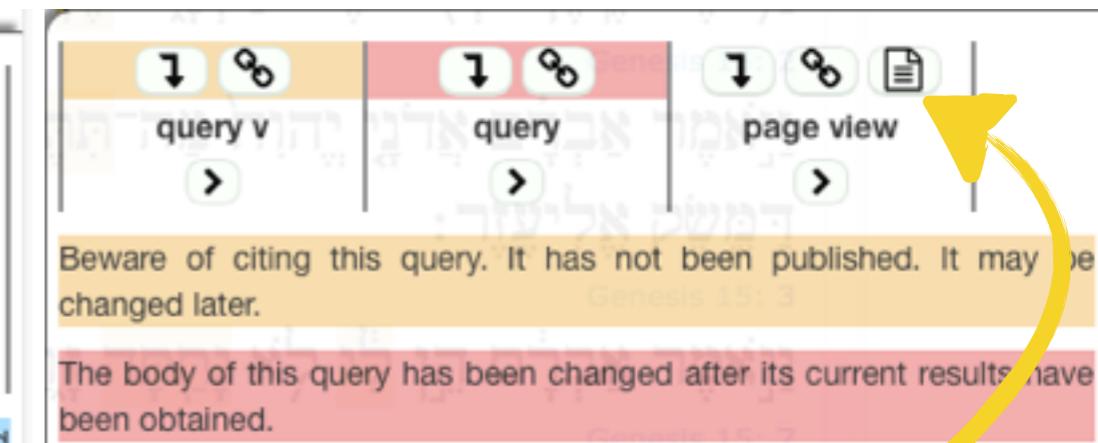
You are also warned if the query in question has outdated results.

**Query links** are links to pages for queries and all their results. Use them to point to a **shared** query.



This query has been published. If that happened more than a week ago, it can be safely cited. It will not be changed anymore.

The results of this query have been obtained after the query body has been last modified



Beware of citing this query. It has not been published. It may be changed later.

The body of this query has been changed after its current results have been obtained.

**Query version** links are tied to a particular version of the data. Use them to **cite a published** query.

**Hint:** copy the page content and paste it in an email or in Evernote. For personal hands-on work!

Customize highlighting of words

reset word highlighting to factory settings

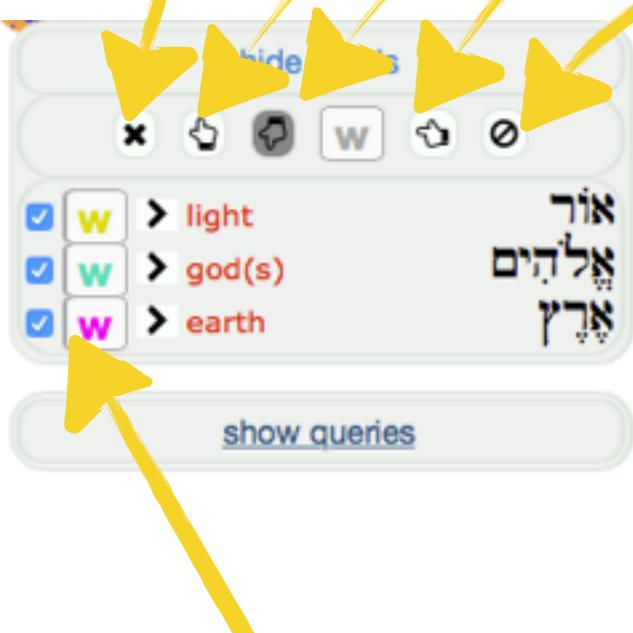
show all words of the chapter in the list

show word highlights according to settings **below**

show word highlights in one fixed color, selected **left**

switch off all word highlighting

click **any word** to toggle its highlight. Highlighted words count as customized.



customize the highlight color of a single word.  
Uncheck the box to uncustomize.

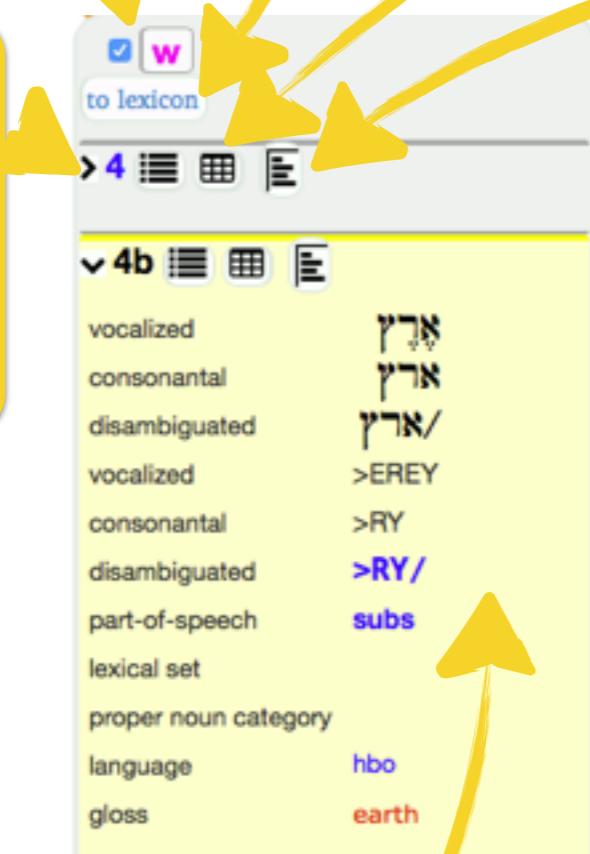
etcbc 4 4b 4s Genesis 1 → text Dirk  
31 verses  
1 בְּרָאשִׁית בָּרָא אֱלֹהִים אֶת הַשְׁמִים וְאֶת הָאָרֶץ:  
2 וְהָאָרֶץ קִיַּתָּה תְּהוֹל וּבָהּוּ וְחַשֵּׁךְ עַל־פְנֵי תְהוָם וְרִיחָה אֱלֹהִים מְרֻחֶפת עַל־פְנֵי  
הַמִּינִים:  
3 וַיֹּאמֶר אֱלֹהִים יְהִי אֹור וַיֹּהִי אֹור:  
4 וַיּוֹרֶא אֱלֹהִים אֶת־הָאֹור כִּי־טֹוב כִּי־אֹור וְבֵין כִּי־אֹור וְבֵין כִּי־חַשֵּׁךְ:

**Single word view**

**customize** the highlight color for this word also from here

find this word in the list of word entries

see the data for this word according to other versions

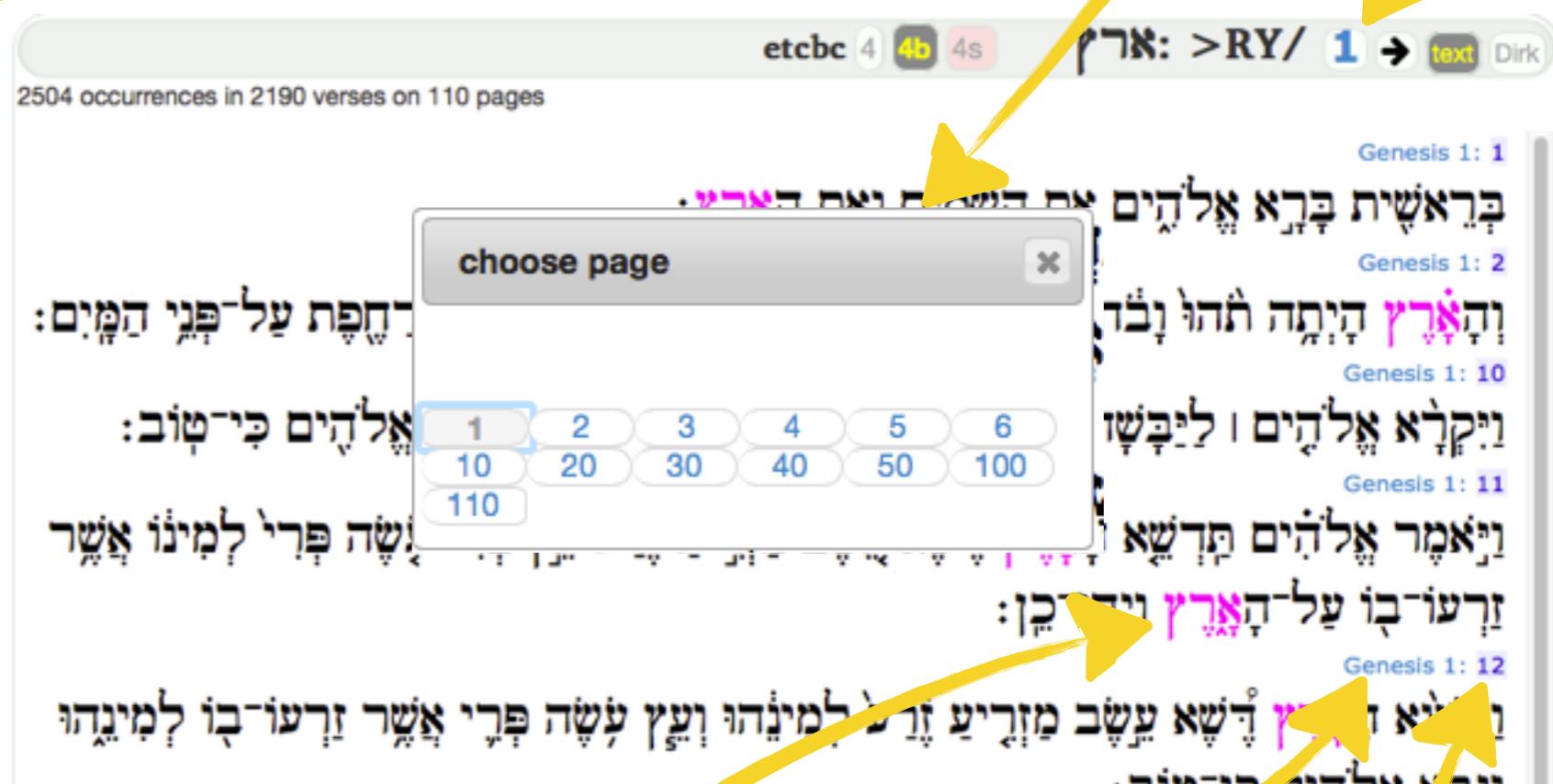


all available information about this word

**download csv file** of all occurrences of this word, not just the ones shown on this page

**visualize** occurrences throughout the Bible on a clickable **chart**

show a dialog to go to **other pages** - press **Esc** to dismiss



occurrences in verse context

click **chapter labels** to view whole chapter

hint: Click a verse number to toggle data view

## Making queries

**About organizations and projects:** although orgs and projects and queries are shown in a tree, with projects under orgs, in fact there is no hierarchy between orgs and projects. Some projects are carried out by multiple orgs, and orgs can run multiple projects. So you will see repeated occurrences of the same project.

Start with clicking + (you need to be logged in)

The screenshot shows the SHEBANQ interface with a navigation bar at the top: SHEBANQ, The Text, Words, Queries, Notes, Help, News, Sources. Below the navigation bar are buttons for 'simple' and 'advanced' modes, and a 'Filter' section with a search input containing 'dirk' and buttons for 'all with children', 'in my queries'. A 'Level' section lists categories: organizations (16), projects (30), users (69), and queries (501). On the left, a tree view shows organizational and project structures. A yellow box with text points to the tree view. A large yellow arrow points from the tree view to the 'Enter new query' button. The 'Enter new query' dialog is open, showing fields for Name (test query), Organization (DANS checked), Project (checked), Name (test project x), and Website (http://x.y). Buttons for discard, save, and close are at the bottom. A yellow box with text points to the 'Organization' field. Another yellow box with text points to the 'Website' field. A yellow box with text points to the bottom right of the dialog.

While editing your query, choose an existing org/project by clicking the blue circles in the tree

+ Enter new query

New query

Name test query

Organization DANS

Project

Name test project x

Website http://x.y

Click to discard or to save or to save and close the name of the query and its associated org and project

But you can also add a new org and/or project on the fly!

## Making queries

### + Enter new query

#### Modify query

Name

Organization  DANS



Project  test project x



project added  
query added



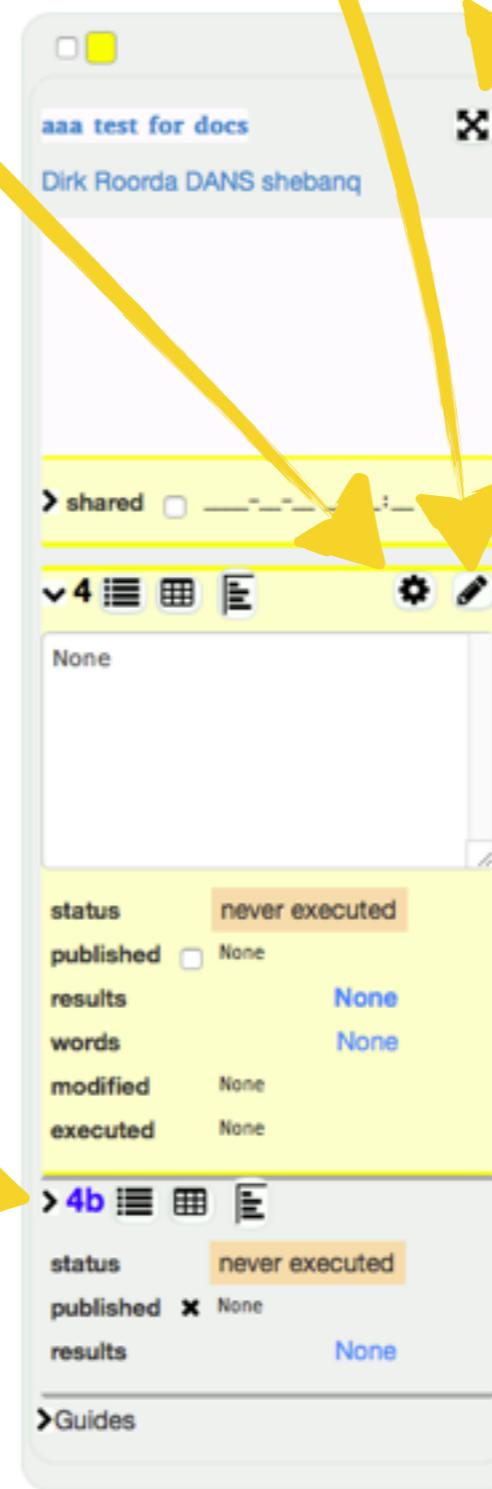
You may want to refresh the tree, so see your new query there

Or go immediately to the page where you can edit your query instruction and write a description

If you want to work on another version of the data, click its version indicator.

Click **edit** to get started with editing the actual MQL instruction.

Finally, click **execute** to execute the query on the indicated version of the data.



If you need more space, you can get it by clicking

While editing, you can still modify the name and description of the query.

For every version of the data, you can write and run a separate MQL instruction.

Name, description, and sharing are properties of the query as a whole.

MQL, publishing, number of results are properties of a query w.r.t. a specific version.

# Customize highlighting of *queries*

show  
**published**  
queries only

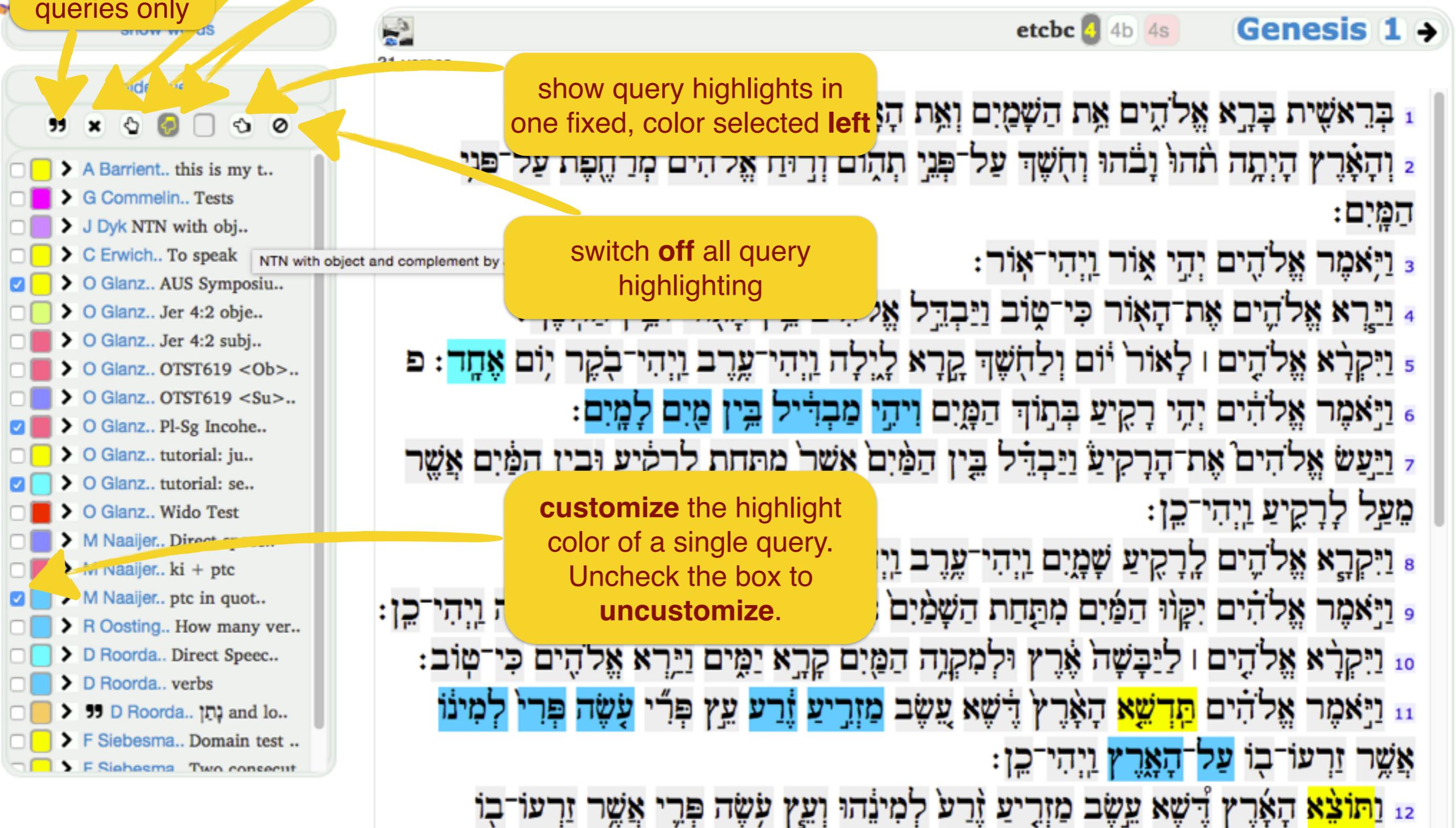
**reset query**  
highlighting to  
factory settings

**highlight hits of all queries  
in the list**

show query highlights  
according to settings **below**

*Why does my query not appear in the list?*

1. it is not shared/published
2. its results are outdated
3. it has no results in this chapter
4. I have *muted* this query



**Single query view**

**download csv file of all hits**  
of this query, not just the ones shown on this page

**show chart**  
of results in whole Bible

**click chapter labels** to view whole chapter

**hint:** Click a verse number to toggle data view

**customize** the highlight color

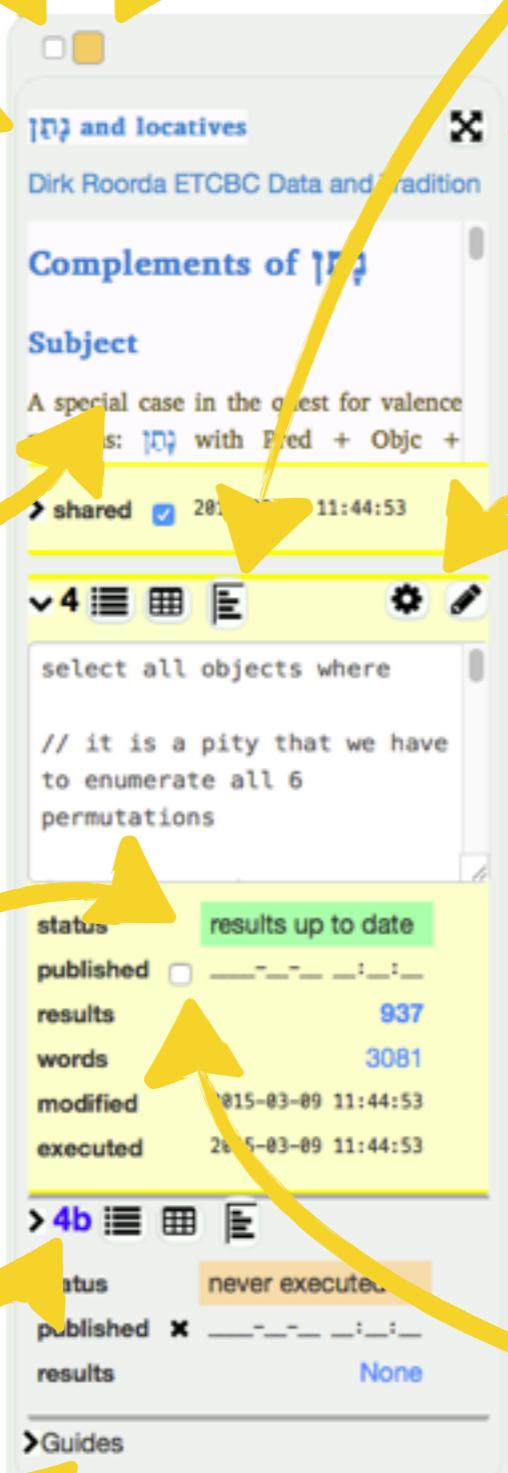
**jump** to this query in tree view

**description** in mark-down with pretty links to other queries

If a modified query is not executed, its hits are *outdated*.  
**Outdated queries are not shown in the sidebar.**

other query versions

links to documentation



**enlarge** preview of query in a pop-up

**edit / execute query**

וַיֹּאמֶר אֱלֹהִים הָנֹה נִתְּתֵי לְכֶם אֶת-כָּל-עַשְׂבָּוֹ זֶבַע זֶבַע אֲשֶׁר עַל-פְנֵי כָל-הָאָרֶץ  
וְאֶת-כָּל-הָעָז אֲשֶׁר-בָּוֹ פְרִידְעַז זֶבַע זֶבַע לְכֶם יִהְיֶה לְאַכְלָה:  
בְּיַמְּבָל אֶת-הָאָדָמָה לְאַתְּסִיף תְּחִפְחָה לָהּ גַּע וְגַד תְּהִיה בָּאָרֶץ:  
כָּל-רַמֵּשׁ אֲשֶׁר הוֹא-בָּהּ לְכֶם יִהְיֶה לְאַכְלָה כִּירַק שְׁבָע נִתְּתֵי לְכֶם אֶת-  
אֶת-רְקַשְׁתִּי נִתְּתֵי בְּעַנְנוּ וְהִזְמִיל לְאֹתְךָ בְּרִית בֵּין וּבֵין הָאָרֶץ:  
וַיֹּרֶא יְהוָה אֱלֹהִים וַיֹּאמֶר לְזֹרֶעֶךְ אַתָּה אֶת-הָאָרֶץ הַזֹּאת וַיַּבְנֵן שָׁט מִזְבֵּחַ לְיהוָה  
הַנִּרְאָה אֵלָיו:  
סָרְם אֶל-אַבְרָם תּוֹלִי הַנָּפָשׁ וְהַרְכֵשׁ קָח-לְךָ:  
אָדָנִי יְהוָה מִה-תִּפְנַלִּי וְאַנְכִי הַולֵּד עֲרִיכִי וּבָנו-מִשְׁק בֵּיתִי הַוָּא  
דִּמְשָׁק אֲלִיעָזֶר:  
וַיֹּאמֶר

results in verse context

**Publish** this version of the query if you are content with it. It will be frozen after a week, unless you unpublish it.

**Query developer view**

Help others understand your query by writing in mark-down

and locatives

Dirk Roorda ETCBC Data and Tradition

```
# Complements of נִתְן
## Subject
A special case in the quest for valence pattern
id=6381) with Pred + Objc + Cmpl.
```

► shared ✓ 2015-03-09 11:44:53

▼ 4

select all objects where

// it is a pity that we have to enumerate all 6 permutations

```
[book[chapter[verse
[clause // VOC
```

```
[phrase function = Pred [word focus lex = 'NTN[']
..
```

```
[phrase function = Objc]
..
```

```
[phrase function = Cmpl [word focus first and last] or [word focus first]
[word focus]* [word focus last]]
```

same query body

Query executed

status	results up to date
published	x
results	937
words	3081
modified	2015-03-09 11:44:53
executed	2015-04-09 11:15:57

► 4b

**Hint:** if you want to link to an other query, you can get a valid mark-down link from the **Queries** page.

Edit the query body

Watch the messages from the query engine

clear messages

after execution, results will be refreshed

Save and back to normal layout

Discard and back to normal layout

Just save

Save and execute

וַיָּרֶא יְהוָה אֱלֹהִים וַיֹּאמֶר לֹזֶרֶךְ אַתָּה  
אֲתִתְהִרְצָחֵת הַגָּאת וַיַּבְנֵן שֵׁם מִזְבֵּחַ לִיהְיוֹת  
הַנְּרָאָה אֵלָיו:

וּבְרוּךְ אֱלֹהִים עַלְיוֹן אֲשֶׁר-מִגּוֹן צְבִיךְ בִּיהְיוֹת  
וַיַּתְפַּלְלָה מְעַשֵּׂר מִפְלָלָה:

Cite

Tabbed views are developed to provide a better picture of the text structure, with narrative clauses versus quotations, the relations between clauses, etc.

experimental

data view still possible

You cannot **save** comments other than copy and paste a page with comments on it into another application.

If you copy a page with comments to Evernote and Word, you can continue editing comments there. You can also edit everything else!

Tabbed view style  
Notes

click repeatedly to cycle through all styles

Display of several phrase/ clause(\_atom) level attributes

The screenshot shows a digital interface for analyzing a Biblical text. At the top, a toolbar displays "etccbc 4" (with a yellow dot over the 4), "4b", "4s", the title "Genesis 1", a right arrow, "text", and the name "Nicolai". On the left, a sidebar indicates "31 verses" and lists verse numbers 1, 2, and 3. The main area contains three lines of Hebrew text with grammatical annotations:

verse 1: # את ה שמיים ו את ה הארץ: Obj Subj Pred ברא אלhim Time xQtX

verse 2: # Add comments manually PreC Pred Subj Conj & WXqt  
# תהו ו בהו קיתה הארץ ו חוץ פנוי תהום NmCl

verse 3: X this is a comment Cmpl PreC Subj Conj & Ptcp  
# על פניהם מרחפת רוח אלhim OK

Yellow arrows and callout boxes highlight various features: one arrow points to the "experimental" label; another to the "data view still possible" note; a third to the "Add comments manually" button; and a fourth to the "Time" label in the first verse's annotations. A large yellow arrow on the right points towards the "xQtX" label in the first verse's annotations. A yellow box labeled "OK" is visible at the bottom right.

Tabbed views are developed to provide a better picture of the text structure, with narrative clauses versus quotations, the relations between clauses, etc.

Display of several phrase/ clause(\_atom) level attributes

Tabbed view style Syntax

click repeatedly to cycle through all styles

experimental

etccbc 4 4b 4s Genesis 1 → text Oliver

31 verses

1 את ה שמים ו את ה ארץ: Objc אלֹהִים Subj בָּרָא Pred בְּרִאשִׁית Time ? xQtX 0

2 תַּהוֹן בְּהֹן קִימָתָה Pred קָרֵץ Subj וְ אֶרְצָה Conj ?? WXQt 422  
עַל-פְּנֵי חֹשֶׁךְ Subj וְ חֹשֶׁךְ Conj ?? NmCl 402  
עַל-פְּנֵי מְרֻחָה Pred רְוחָה אלֹהִים Subj וְ מְרֻחָה Conj ?? Ptcp 460

3 יְאִמֵּר אלֹהִים Subj אָמַר Pred וְ יְהִי Conj ?N WayX 472  
אָזֶן אָזֶן יְהִי Pred וְ יְהִי Conj ?NQ ZYqX 999  
אָזֶן אָזֶן יְהִי Pred וְ יְהִי Conj ?N WayX 200

4 115 oct vocalic consonantal file 4\_w1AWRn\_Nicolai.csv :download all occurrences of this word with tab info as a csv

אָלֹהִים Objc אלֹהִים Subj בָּרָא Pred וְ בְּרִאשִׁית Conj ?N WayX 200  
אָלֹהִים Objc כָּיִתְבָּל Pred וְ בְּהֹלְלָה Conj ?N xQt0 527  
אָלֹהִים Objc יְבָנֶל Pred וְ בְּנָלָה Conj ?N WayX 200

Hint: For queries and words, there is an extra control to export tabbed view as csv.

Tabbed views are developed to provide a better picture of the text structure, with narrative clauses versus quotations, the relations between clauses, etc.

Abstract representation of words and phrases

but highlighting and clicking on words still work!

**Visualization style**  
**Abstract**

click repeatedly to cycle through all styles

experimental

etcbc 4 4b 4s Genesis 1 → text Dirk

31 verses

1

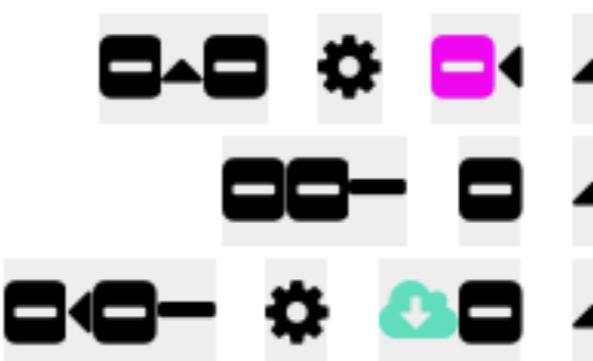


2

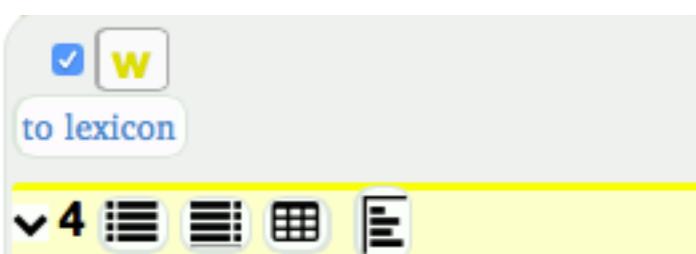


data view still possible

**Exercise:** what do the different symbols mean?  
**Hint:** use the data view.



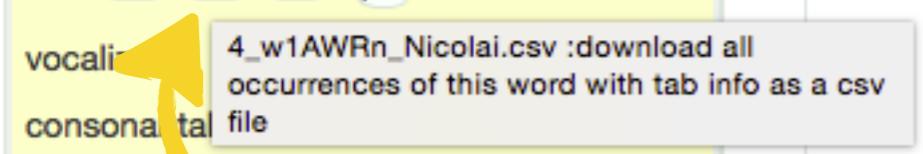
3



115 oct



4



**Hint:** For queries and words, there is an extra control to export tabbed view as csv.





**Viewing notes**

Notes are attached to individual clause\_atoms.

column with the content of the notes.

the authors of the notes

notes are only accessible in Nicolai view

show/hide notes

note status

keywords  
group  
individual  
notes into  
sets

The screenshot shows a Hebrew sentence from the book of Genesis, chapter 1, verse 1, in the etcbc interface. The sentence is: "אֱלֹהִים בָּרָא אֶת הַשְׁמִינִי בְּרִאשֵׁית אֶת הָאָרֶץ". The interface includes a toolbar at the top with buttons for text and Nicolai view, and a notes table below the sentence.

Objc	Subj	Pred	Time	xQtX
אֱלֹהִים	בָּרָא	אֶת הַשְׁמִינִי	בְּרִאשֵׁית	

The notes table below contains the following rows:

●			me	“”
●	ntn xpa	special attention	me	“”
●	ntn	coding error in subject phrase	me	“”
★	xpa	let op de נָחָת	Karel Doorman	“”
●	aap	noot	Karel Doorman	“”
●	fjm	coding problems	Karel Doorman	“”

**Editing notes**

show/hide notes for whole chapter

show/hide notes for this verse. When you hide unsaved notes it becomes red.

click to cycle through:

- normal
- note
- ok
- warning
- error
- info

Separate multiple keywords by spaces.

Save notes for this verse or all verses

Revert to last saved value

Delete a note by making keywords and text empty

share notes. New notes are shared by default.

click to publish/unpublish. Published notes freeze after a week.

notes are only accessible in notes view

etcbc 4 4b 4s Genesis 1 → text Nicolai (1/3)

verses

Objc Subj Pred Time

אַתָּה שְׁמַיִּים בְּרֹא בְּרֹאשֵׁית אַתָּה אֶרְצָה

This is a new note. After saving, you get another new note.

tnxpa special attention

tn note in subject phrase

xpa let op de אֶת

aap noot

fjm

Just start typing to modify your own notes.

You cannot edit other people's notes (if you want to correct/comment: add your own note!)

You can copy/paste Hebrew text from the surroundings.

	me		
	me		
	Karel Doorman		
	Karel Doorman		
	Karel Doorman		

## Editing notes (advanced)

**Hyperlinks:** [foo] (<http://bar>) a hyperlink *foo* to <http://bar> in a new tab.

**Chapter references:** [foo] (book ch) a link *foo* to the book ch in SHEBANQ.

in edit mode  
(your own  
notes, when  
logged in)

1

1

אֱלֹהִים בְּרָא אֶת הַשָּׁמְיִם וְאֶת הָאָرֶץ:

בראשית 1:1

Objc Subj Pred Time

●				me		
✓	test	[Gen 50](Genesis 50) [Ex 20](Exodus 20)		me		
!	test	[Ex 100](Exodus 100) [Deut 20](Deuteronomia 20)		me		

xQtX

in view mode  
(your own  
notes, when  
not logged in,  
and everybody  
else's notes)

1

Objc Subj Pred Time

אֱלֹהִים בְּרָא אֶת הַשָּׁמְיִם וְאֶת הָאָרֶץ:

בראשית 1:1

✓	test	Gen 50 Ex 20	Dirk Roorda		
!	test	Ex 100 Deut 20	Dirk Roorda		

xQtX

## Bulk uploading notes

You can upload csv files with a large number of "manual" notes to SHEBANQ

You need to be on a special list of "Uploaders"

Words    Queries    Notes    Help    News    Sources

Log In ▾

▼	□	Shared Notes( 15 )
▼	□	Karel Doorman( 3 )
	□	1 - aap ↓
	□	1 - fjm ↓
	□	2 - xpa ↓
▼	□	Dirk Roorda( 12 )
	□	- 1 >lhjm ↓
	□	- 1 aa ↓
	□	- 4 aap ↓
	□	- 1 check ↓
	□	- 1 locatives ↓
	□	1 1 ntn ↓
	□	1 xpa ↓
	□	- 1616 ntn-loca ↓
	□	1 - test ↓
	□	- 1 txt ↓
	□	- 1 אָבִי ↓
	□	1 אָמֵן ntn

This note set is a typical result of a csv upload

Here are detailed specifications of the csv files that you submit.

You need a tool like **LAF-Fabric** to generate the precise clause\_atom numbers that are used to link notes to their target clause\_atoms.

### Bulk note upload through csv

You are not allowed to upload csv files with notes. Please contact [Dirk Roorda](#) for permissions.

Here are the specifications:

> general

✓ column names

The first line contains the name of the columns, exactly as follows:

`version book  
chapter verse clause_atom  
is_shared is_published  
status keywords ntext ;`

every following line should have exactly the same number of fields;

> passage indicator

> anchor to the text

> sharing

> status

> keywords

> ntext



Familiar with Python? Feeling the urge to do more with this data?  
LAF-Fabric offers an API by which you can master the data

nbviewer

LAF-Fabric supports walking over the data.

You can fire MQL queries within LAF-Fabric as a starting point ...

and then use the full, detailed results programmatically

It is an off-line tool, open source, and you can download the ETCBC4 data, Open Access. Start with [readthedocs](#).

## תְּלִין and locatives

We try to mark all those occurrences of תְּלִין + object + complement. What we want to mark is whether the complement is a proper indirect object or a locative.

This is part of Janet's project of creating a valence dictionary and using a flowchart to arrive at the meaning of a verb in its context of complements.

First we use an MQL query to get all occurrences of תְּלִין with an object and a complement. Then we apply a few heuristics to detect those cases where the complement is a locative or an indirect object.

The query is also on SHEBANQ, a version by [Dirk](#) and a version by [Janet](#).

```
import sys
import collections
import subprocess

from lxml import etree

import laf
from laf.fabric import LafFabric
from etcbc.preprocess import prepare
from etcbc.mql import MQL
fabric = LafFabric()
```

The notebooks you create with LAF-Fabric, you can share online

## Tools

SHEBANQ

The Text

Words

Queries

Notes

Tools

Help

News

Sources

High quality notebooks based on the ETCBC data en LLAFFabric find a place here.



> Tools

▼ Parallel Passages

An inventory of *parallel* passages in the Hebrew Bible.

Clique 1	וְכָל־יְהוָה וּמֶרְפֵּץ כַּיִם וְדָרְנִים:	Genesis 10:4 Chronicles 1:7
Clique 2	וְכָל־יְהוָה וּמֶרְפֵּץ כַּיִם וְדָרְנִים:	Genesis 10:4 Chronicles 1:7
Clique 3	וְכָל־חַם פֹּוֶשׁ וְמִצְרִים וְפָוֶט וְכָנְעָן:	Genesis 10:8 Chronicles 1:8
Clique 4	וְכָל־לֹוט סְפָא נְטוּילָה וְסְקָפָה וְרַקְפָּה וְסְבָחָה וְכָנוּ רַקְפָּה שְׁבָא וְדָרְןִים:	Genesis 10:9 Chronicles 1:9
Clique 5	וְקִישׁ יָלֵד אֶת־צָפְלָד הוּא חַל לְחַזְות נָגֵר קָרָז:	Genesis 10:10 Chronicles 1:10
Clique 6	וְמַקְרִים יָלֵד אֶת־לֹהִים וְאֶת־אֱנֹשִׁים וְאֶת־לְקָבִים וְאֶת־נְפָקִים: וְמַקְרִים יָלֵד אֶת־לֹדוֹת וְאֶת־אֱנֹשִׁים וְאֶת־לְקָבִים וְאֶת־נְפָקִים:	Genesis 10:11 Chronicles 1:11

## Parallel Passages

Various ways of detecting similar passages have been tried out. The notebook provides access to the outcomes of those experiments. You can navigate to all variants and see parallel passages brought together, with differences highlighted.

[View notebook](#)

[Download notebook](#)

For example, this tool lists parallel passages in the Hebrew Bible



Clique 2	וְכָל־יְהוָה וּמֶרְפֵּץ כַּיִם וְדָרְנִים:	Genesis 10:4 Chronicles 1:7
Clique 3	וְכָל־חַם פֹּוֶשׁ וְמִצְרִים וְפָוֶט וְכָנְעָן:	Genesis 10:8 Chronicles 1:8
Clique 4	וְכָל־לֹוט סְפָא נְטוּילָה וְסְקָפָה וְרַקְפָּה וְסְבָחָה וְכָנוּ רַקְפָּה שְׁבָא וְדָרְןִים:	Genesis 10:9 Chronicles 1:9
Clique 5	וְקִישׁ יָלֵד אֶת־צָפְלָד הוּא חַל לְחַזְות נָגֵר קָרָז:	Genesis 10:10 Chronicles 1:10
Clique 6	וְמַקְרִים יָלֵד אֶת־לֹהִים וְאֶת־אֱנֹשִׁים וְאֶת־לְקָבִים וְאֶת־נְפָקִים: וְמַקְרִים יָלֵד אֶת־לֹדוֹת וְאֶת־אֱנֹשִׁים וְאֶת־לְקָבִים וְאֶת־נְפָקִים:	Genesis 10:11 Chronicles 1:11

We love to see contributions from you!

# Documentation and Support

If a page in SHEBANQ acts weird, it is always a good idea to refresh the page.

[MQL quick reference guide \(pdf\)](#)

[MQL Query Reference by Ulrik \(pdf\)](#)

[ETCBC4 feature doc](#)

[ETCBC4 transcription table \(pdf\)](#)

Please report issues to [Dirk Roorda](#).