

# CTS-R

## A Canonical Text Service Interface for R

### Canonical Text Service

#### Text Referenciation

simple visualization based on a prototype of (Reckriegel, 2016) CTRaCE uses this connection to list each citation with links to the corresponding text passage in DTA.

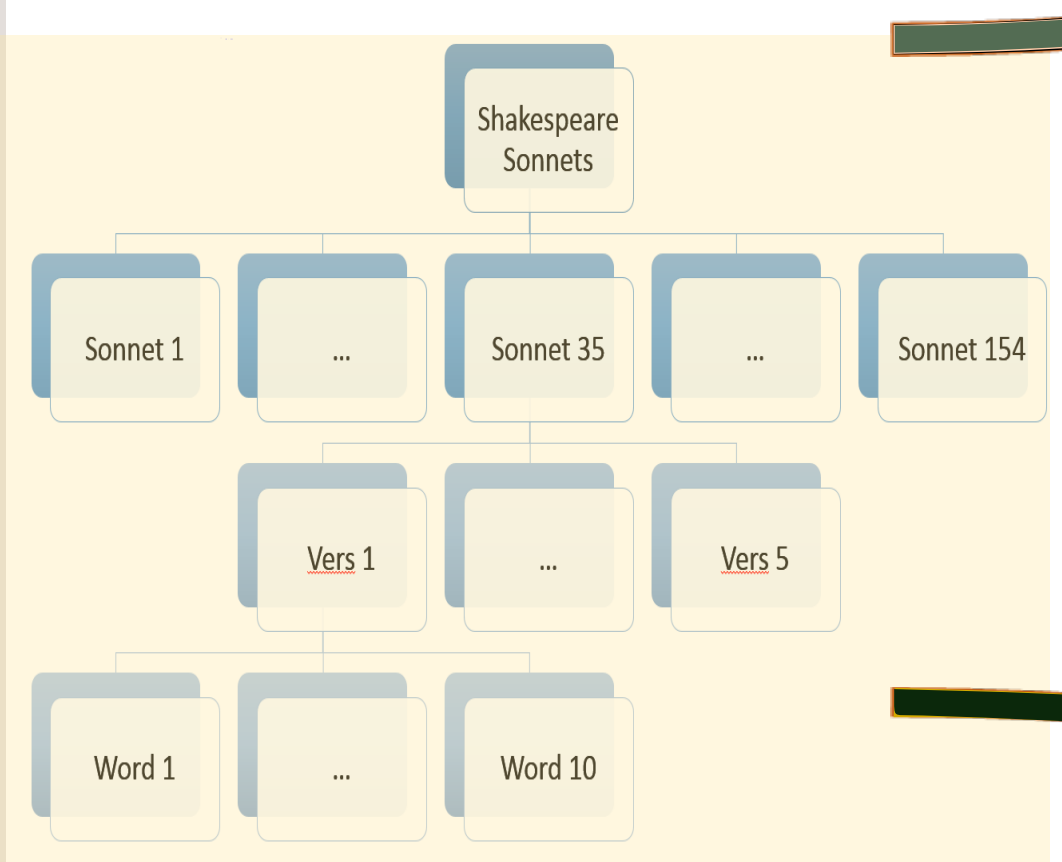
Am Anfang schuf Gott Himmel und Erde.  
urn:cts:pbc-deu:luther1545.1.1.1  
-- am anfang schuf gott himmel und erde  
-- im anfang schuf gott himmel und erde

<sup>4</sup> See urn:cts:pbc-deu:luther1545.1.1.1.1 and urn:cts:pbc-deu:luther1545.1.1.1.1

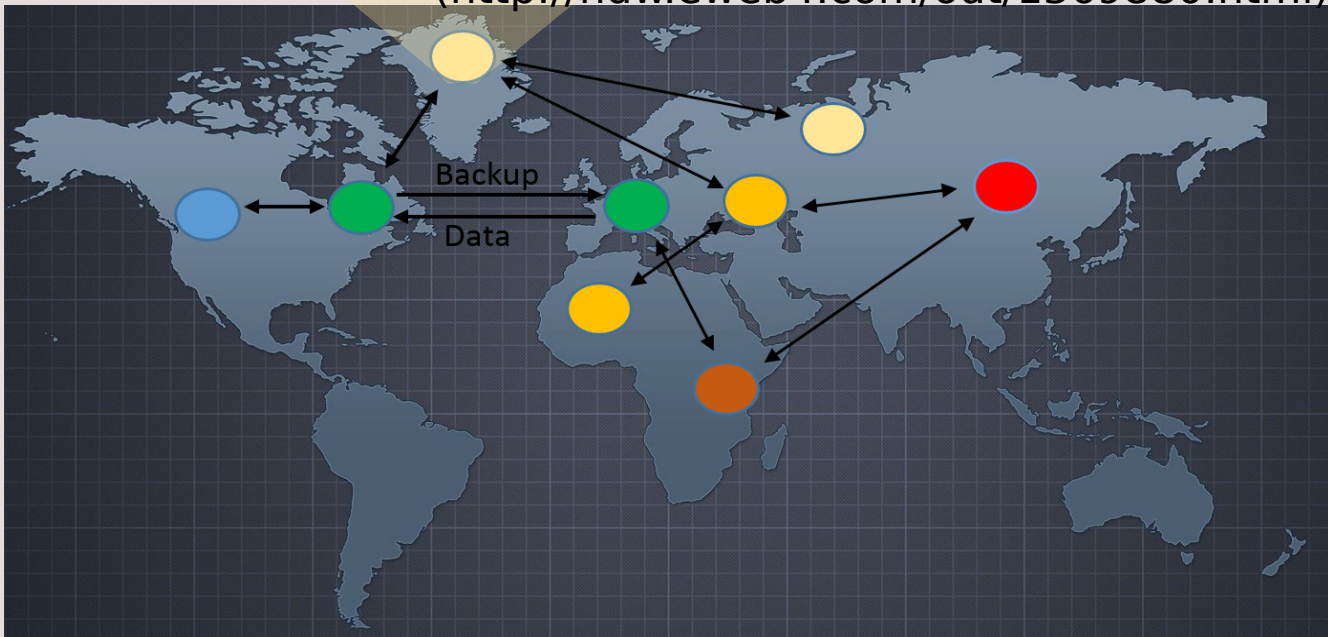
does it mean Leib", which appears nowhere in the results. However, when searched explicitly, this phrase is found 932 times in DTA. The problem is that this phrase is always included in bigger contexts like "Da sie aber allein, nahm Jesus das Brot, dankete und brach's und gab's den Jüngern und sprach: Nehmet, esset, das ist mein Leib.", which do not appear in DTA. Segmentation techniques can be applied to divide phrases into smaller text parts but this would require additional language-dependent resources. The easiest way to

<sup>5</sup> Complete results for Luther 1545: [http://ctsn.de/foermerk.uni-leipzig.de/2010/01\\_01/](http://ctsn.de/foermerk.uni-leipzig.de/2010/01_01/)

#### Structured Documents



(<http://hdw.eweb4.com/out/1369880.html>)



Decentralized Text Repository  
**CLARIN**

### Statistical Analysis

Canonical Text Analyzer

CTS URN: urn:cts:pbc-bible-parallel-eng-kingjames

Now the serpent was more subtle than any beast of the field which the LORD God had made. And he said unto the woman, 'Yea, hath God said, 'Ye shall not eat of every tree of the garden?' And the woman said unto the serpent, 'Ye may eat of the fruit of the trees of the garden: but of the fruit of the tree which is in the midst of the garden, God hath said, 'Ye shall not eat of it: neither shall ye touch it: lest ye die.' And the serpent said unto the woman, 'Ye shall not surely die: For God doth know that in the day ye eat thereof, then your eyes shall be opened, and ye shall be as gods, knowing good and evil.' And when the woman saw the look of the tree thereof, and did eat, and gave also unto her husband with her, and he did eat. And the eyes of them both were opened, and they knew that they were naked; and they sewed fig leaves together, and made themselves aprons. And they heard the voice of the LORD God walking in the garden in the cool of the day: and Adam and his wife hid themselves from the presence of the LORD God amongst the trees of the garden. And the LORD God called unto Adam, and said unto him, 'Where art thou?' And he said, 'I heard thy voice in the garden, and was afraid, because I was naked, and hid myself.' And he said, 'Who told thee that thou wast naked?' And he said, 'The serpent beguiled me, and I did eat.'

Var1 Freq

.	58
,	16
:	8
;	14
?	5
a	2
above	2
Adam	5
afraid	1
all	4
also	4
amongst	1
and	39
And	17
any	1
aprons	1
art	3
as	2
at	1
be	5
beast	2
because	2
Because	2
become	1
beguiled	1
Behold	1
belly	1
between	2
both	1

Shiny from R Studio

Request text data via CTS URN in R

Texts are requested "on the fly"

Only CTS URN required  
(server address is configured automatically)

Server address can also be configured manually

Document metadata and valid CTS URNs can also be requested

### CTS-R

```
install.packages("devtools")
devtools::install_git("https://git.informatik.uni-leipzig.de/jtiepmar/cts-r/")

urn <- "urn:cts:pbc:bible-parallel-eng-kingjames:1.3"
print(ctsRetrieval::get_editions("urn:cts:pbc"))
print(ctsRetrieval::get_prev_next(urn))
print(ctsRetrieval::get_valid_reff(urn,3))
print(ctsRetrieval::get_first_urn(urn))
print(ctsRetrieval::get_passage(urn))
print(ctsRetrieval::get_passage_plus(urn))
print(ctsRetrieval::get_label(urn))
```

CTS URNs make text passages in R persistently citable

### Kontakt

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### Projektwebseite

<http://cts.informatik.uni-leipzig.de>

