

Concordance

Display the context of the word.

Inputs

- Corpus: A collection of documents.

Outputs

- Selected Documents: Documents containing the queried word.
- Concordances: A table of concordances.

Concordance finds the queried word in a text and displays the context in which this word is used. Results in a single color come from the same document. The widget can output selected documents for further analysis or a table of concordances for the queried word. Note that the widget finds only exact matches of a word, which means that if you query the word 'do', the word 'doctor' won't appear in the results.

The screenshot shows the 'Concordance' widget interface. On the left, the 'Info' panel displays statistics: Documents: 140, Tokens: 133486, Types: 11744, and Matching: 10/140. Below this, the 'Number of words' is set to 5. At the bottom left, a checkbox for 'Auto commit' is checked. The main area shows a list of concordances for the query 'doctor'. The list is numbered 1 to 17. Each entry consists of a line of text with the word 'doctor' highlighted in blue. The text is: 1. when the door opened and Doctor Livesey came in on; 2. visit to my father Oh doctor we cried what shall; 3. s end ! said the doctor No more wounded than; 4. back with the basin the doctor had already ripped up; 5. great spirit Prophetic said the doctor touching this picture with; 6. him First he recognized the doctor with an unmistakable frown; 7. Black Dog here said the doctor except what you have; 8. Much I care returned the doctor It ' s the; 9. Now mind you said the doctor I clear my conscience; 10. ' ll raise Cain Your doctor hisself said one glass; 11. I was reassured by the doctor ' s words now; 12. And now matey did that doctor say how long I; 13. position on the edge That doctor ' s done me; 14. will !-- to that eternal doctor swab and tell him; 15. the whole story to the doctor for I was in; 16. death for him and the doctor was suddenly taken up; 17. at once and ride for Doctor Livesey would have left.

1. *Information*:

- *Documents*: number of documents on the input.
- *Tokens*: number of tokens on the input.
- *Types*: number of unique tokens on the input.
- *Matching*: number of documents containing the queried word.

2. *Number of words*: the number of words displayed on each side of the queried word.

3. Queried word.

4. If *Auto commit is on*, selected documents are communicated automatically. Alternatively press *Commit*.

Examples

Concordance can be used for displaying word contexts in a corpus. First, we load *book-excerpts.tab* in **Corpus**. Then we connect **Corpus** to **Concordance** and search for concordances of a word 'doctor'. The widget displays all documents containing the word 'doctor' together with their surrounding (contextual) words.

Now we can select those documents that contain interesting contexts and output them to **Corpus Viewer** to inspect them further.

The screenshot displays the Orange Data Mining interface with a workflow consisting of three widgets: **Corpus**, **Concordance**, and **Corpus Viewer**. The **Corpus** widget shows a document icon and a list of documents. The **Concordance** widget displays a list of documents with a query filter set to 'do'. The **Corpus Viewer** widget shows a detailed view of a document, including a list of documents and a text excerpt.

Corpus Viewer Info:

- Documents: 3
- Preprocessed: True
 - Tokens: 2756
 - Types: 11744
- POS tagged: False
- N-grams range: 1-1
- Matching: 3/3

Corpus Viewer RegEx Filter:

| Document | Text |
|--------------|---|
| 1 Document 1 | category: children text: the house Jim says he rum ; and as he spoke he reeled a little and caught himself with one hand against the wall Are you hurt? cried I Rum he repeated I must get away from here Rum! Rum! I ran to fetch it but I was quite unsteady by all that had fallen out and I broke one glass and fouled the tap and while I was still getting in my own way I heard a loud fall in the parlour and running in beheld the captain lying full length upon the floor At the same instant my mother alarmed by the cries and fighting came running downstairs to help me Between us we raised his head He was breathing very loud and hard but his eyes were closed and his face a horrible colour Dear deary me cried my mother what a disgrace upon the house! And your poor father sick! In the meantime we had no idea what to do to help the captain nor any other thought but that he had got his death-hurt in the scuffle with the stranger I got the rum to be sure and tried to put it down his throat but his teeth were tightly shut and his jaws as strong as iron It was a happy relief for us when the door opened and Doctor Livesey came in on his visit to my father Oh doctor we cried what shall we do? Where is he wounded? Wounded? A fiddle-stick's end! said the doctor No more wounded than you or I The man has had a stroke as I warned him Now Mrs Hawkins just you run upstairs to your husband and tell him if possible nothing about it For my part I must do my best to save this fellow's trebly worthless life; Jim you get me a basin When I got back with the basin the doctor had already ripped up the captain's sleeve and exposed his great sinewy arm It was tattooed in several places Here's luck A fair wind and Billy Bones his fancy were very neatly and clearly executed on the forearm; and up near the shoulder there was a sketch of a gallows and a man hanging from it--done as I thought with great spirit Prophetic said the |
| 2 Document 2 | |
| 3 Document 3 | |

Concordance Info:

- Documents: 140
- Tokens: 133486
- Types: 11744
- Matching: 112/140

Concordance Query: do

| Document | Text |
|----------|---|
| 1 | ! In the meantime we had no idea what to do to help the captain nor any other thought b.. |
| 2 | ...y father Oh doctor we cried what shall we do ? Where is he wounded ? Wounded ? A |
| 3 | ...ossible nothing about it For my part I must do my best to save this fellow ' s trebly |
| 4 | ' t break off short you ' ll die -- do you understand that ?-- die and go to your |
| 5 | ! he cried A week ! I can ' t do that ; they ' d have the black spot |
| 6 | ... ears is singing Lay me back Before I could do much to help him he had fallen back again |
| 7 | What I should have done had all gone well I do not know Probably I should have told the w.. |
| 8 | Bill ' If you don ' t I ' ll do this and with that he gave me a twitch |
| 9 | ...sickness He made a movement to rise but I do not believe he had enough force left in his |
| 10 | ' clock I he cried Six hours We ' ll do them yet and he sprang to his feet Even |
| 11 | a man would go along with us All they would do was to give me a loaded pistol lest we |
| 12 | she gave a sigh and fell on my shoulder I do not know how I found the strength to do |
| 13 | I do not know how I found the strength to do it at all and I am afraid it was |
| 14 | her for the bridge was too low to let me do more than crawl below it So there we had |
| 15 | like a fish out of water and all he could do was to dispatch a man to B ---- to |
| 16 | ... were these villains after but money ? What do they care for but money ? For what would |
| 17 | Bristol March 1 17 -- Dear Livesey -- As I do not know whether you are at the hall or |

Corpus Viewer Info:

- category: children
- text: the house Jim says he rum ; and as he spoke he reeled a little and caught himself with one hand against the wall Are you hurt? cried I Rum he repeated I must get away from here Rum! Rum! I ran to fetch it but I was quite unsteady by all that had fallen out and I broke one glass and fouled the tap and while I was still getting in my own way I heard a loud fall in the parlour and running in beheld the captain lying full length upon the floor At the same instant my mother alarmed by the cries and fighting came running downstairs to help me Between us we raised his head He was breathing very loud and hard but his eyes were closed and his face a horrible colour Dear deary me cried my mother what a disgrace upon the house! And your poor father sick! In the meantime we had no idea what to do to help the captain nor any other thought but that he had got his death-hurt in the scuffle with the stranger I got the rum to be sure and tried to put it down his throat but his teeth were tightly shut and his jaws as strong as iron It was a happy relief for us when the door opened and Doctor Livesey came in on his visit to my father Oh doctor we cried what shall we do? Where is he wounded? Wounded? A fiddle-stick's end! said the doctor No more wounded than you or I The man has had a stroke as I warned him Now Mrs Hawkins just you run upstairs to your husband and tell him if possible nothing about it For my part I must do my best to save this fellow's trebly worthless life; Jim you get me a basin When I got back with the basin the doctor had already ripped up the captain's sleeve and exposed his great sinewy arm It was tattooed in several places Here's luck A fair wind and Billy Bones his fancy were very neatly and clearly executed on the forearm; and up near the shoulder there was a sketch of a gallows and a man hanging from it--done as I thought with great spirit Prophetic said the

In the second example, we will output concordances instead. We will keep the *book-excerpts.tab* in **Corpus** and the connection to **Concordance**. Our queried word remains 'doctor'.

This time, we will connect **Data Table** to **Concordance** and select Concordances output instead. In the **Data Table**, we get a list of concordances for the queried word and the corresponding documents. Now, we will save this table with **Save Data** widget, so we can use it in other projects or for further analysis.

The screenshot displays the Orange Data Mining software interface. At the top, a workflow is shown with a 'Corpus' widget connected to a 'Concordance' widget. The 'Concordance' widget has two output arrows labeled 'Concordances → Data', one pointing to a 'Data Table' widget and the other to a 'Save Data' widget.

The 'Concordance' widget's settings are visible in the bottom-left pane. The 'Query' field contains the word 'doctor'. Below the query, a list of 16 concordance results is shown, each with a line number, a snippet of text, the word 'doctor', and the full text of the document. The 'Number of words' is set to 5. The 'Auto commit' checkbox is checked.

The 'Data Table' widget's settings are visible in the bottom-right pane. The 'Info' section shows 37 instances, no features, and 2 meta-attributes. The 'Variables' section has checkboxes for 'Show variable labels (if present)', 'Visualize numeric values', and 'Color by instance classes'. The 'Selection' section has a checked checkbox for 'Select full rows' and a 'Send Automatically' checkbox. The 'Data Table' widget displays a table with two columns: 'Conc. doctor' and 'Document'.

| | Conc. doctor | Document |
|----|---|------------|
| 1 | when the door opened and Doctor Li... | Document 1 |
| 2 | visit to my father Oh doctor we cried... | Document 1 |
| 3 | s end ! said the doctor No more wou... | Document 1 |
| 4 | back with the basin the doctor had a... | Document 1 |
| 5 | great spirit Prophetic said the doctor... | Document 1 |
| 6 | him First he recognized the doctor w... | Document 1 |
| 7 | Black Dog here said the doctor exce... | Document 1 |
| 8 | Much I care returned the doctor It ' s... | Document 1 |
| 9 | Now mind you said the doctor I clear... | Document 1 |
| 10 | ' ll raise Cain Your doctor hisself said... | Document 2 |
| 11 | I was reassured by the doctor ' s wor... | Document 2 |
| 12 | And now matey did that doctor say h... | Document 2 |
| 13 | position on the edge That doctor ' s ... | Document 2 |
| 14 | will !-- to that eternal doctor swab a... | Document 2 |
| 15 | the whole story to the doctor for I w... | Document 2 |
| 16 | death for him and the doctor was su... | Document 2 |

The 'Save Data' widget is shown in the bottom-center, with a 'Save' button and a 'Save As...' button.