TreeCloud & Unitex: an increased synergy
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TreeCloud is a tree cloud visualization of a text

TreeCloud builds a tree cloud visualization of a text, which looks like a tag cloud where the tags are displayed around a tree to reflect the co-occurrence distance between the words in the text.

The adjacent grammar gives an overview of Barack Obama’s 2008 presidential campaign speeches.


UniteX/GramLab is a corpus analyser and annotation tool

UniteX/GramLab is a corpus analyser and annotation tool. It is based on Automatic and RTTs with outputs.

- Multilingual: Up to 22 languages (French, English,… Greek, … Korean, Thai)
- Unicode: 3.0 (UTF-8, UTF-16LE, UTF-16BE)
- Cross-platform: Linux, macOS, Windows
- Open source: https://github.com/UnitexGramLab
- Website and binary installation: http://www.gramlab.org

& Under development since 2001 by a group of passionate volunteers


How and Why to plug Unitex into TreeCloud?

Construction of the tree with Unitex

1. UniteX transforms the input text into a new text with all the forbidden/stopwords replaced by the "XXX" word

2. The new text is sent to TreeCloud with XXX as the unique forbidden word (the unique word in the stoplist)

Get an even larger and more accurate coverage of forbidden words

Under development since 2001 by a group of passionate volunteers


Some examples of trees in different languages


The 20 most frequent compound and person nouns in an English article


The 45 most frequent compound and person nouns in a Jules Verne’s novel


The 30 most frequent words in a Serbian article


Conclusion

Plug-in of UniteX into TreeCloud provides:

- A more accurate representation of forbidden words
- All kinds of multimedia to be recognized in the text and presented in the tree
- A visual representation of some grammatical or semantic categories of the words
- A faster construction of the tree (via a careful use of the UniteX API)