

Syntactic Reference Corpus of Medieval French (SRCMF)

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1 SRCMF

1.1 Reference to the corpus

- Please cite the corpus as follows:
Prévost, Sophie; Stein, Achim. 2013. Syntactic Reference Corpus of Medieval French (SRCMF) [version number]. ENS de Lyon/ILR Stuttgart. [BibTeX entry](#)
- The SRCMF is registered as [International Standard Language Resource](#) with the ISLRN 899-492-963-833-3

1.2 About the project

- **Funding:** *Syntactic Reference Corpus of Medieval French (SRCMF)* was financed by the Agence nationale de la recherche (ANR) and Deutsche Forschungsgemeinschaft (DFG), 1.3.2009-29.2.2012
- **Staff:** principal investigators**, researchers* and cooperators:
 - **CNRS Lattice Paris (F):** Sophie Prévost**, Julie Glikman*
 - **ENS Lyon (F):** Céline Guillot, Serge Heiden, Alexei Lavrentiev*, Christiane Marchello-Nizia (émérite), Tom Rainsford*
 - **ILR Universität Stuttgart (D):** Achim Stein**, Beatrice-Barbara Bischof*, Nicolas Mazziotta*
- **Description:** The SRCMF is the first dependency treebank for Old French. It consists of syntactically annotated parts of two text corpora of Medieval French:
 - *Base de Français Médiéval* (BFM), see [Guillot et al. \(2007\)](#) and <http://bfm.ens-lyon.fr/>
 - *Nouveau Corpus d'Amsterdam* (NCA), see [Stein et al. \(2006\)](#); [Kunstmann & Stein \(2007\)](#) and <http://www.uni-stuttgart.de/lingrom/stein/corpus/>

A treebank is a text corpus which includes the annotation of a syntactic structure for each sentence. For SRCMF, a dependency grammar was used. Fifteen texts covering the Old French period from 842 to the end of the 13th century and containing about 251 000 words were annotated manually and published along with the tools and documentation on this website. The work group delivered the following results and resources:

- a dependency grammar model for the annotation of these corpora;
- a detailed documentation of the syntactic categories of the grammar model, as well as annotation guidelines;
- the tool *NotaBene* for manual syntactic annotation and comparison of annotated corpora;
- a double-checked, high quality morphological and syntactic annotation
- interfaces to export the annotation to TigerXML (allowing to use the *TigerSearch* tool) and to the CoNLL shared task format (allowing to train dependency parsers).

1.3 Quick start

If you already know TigerSearch (or if you don't want to read instructions):

1. Download and install TigerSearch (see section 4.2 below).
2. Download the binary files of a corpus text and install them (see section 2.1 below).

You may also wish to use this detailed tutorial:

- The [SRCMF tutorial \(PDF\)](#)

2 Access

2.1 Online access

(in preparation)

Online queries via a TXM web interface for SRCMF will be provided by the database [Base de français médiéval \(BFM\)](#). This TXM interface will allow for TigerSearch queries online.

2.2 Download

In this section, you can download the SRCMF files in various formats.

The table does not contain detailed information about the corpora. Please refer to the bibliographies of BFM and NCA (see section 1.2).

- **Title/Date:** Short title and approximate date. For details consult the BFM bibliography or the date given in the header of the XML-TEI edition.

- **Words:** Rounded figures indicate that the text is an excerpt of the complete original text (e.g. *Roman de la rose*).
- **TigerBinary** files: ready to use with TigerSearch. Unpack the zipped files, move the resulting directory in the directory *TIGERCorpora* of your TigerSearch installation. The corpus will appear if you (re)start TigerSearch or if you refresh the corpus tree if TigerSearch is already running.
- **TigerXML:** install TigerSearch, unpack the zipped XML files, use TigerRegistry (delivered with TigerSearch) to register them in TigerSearch. Use TigerSearch for queries (see the TigerSearch manual for more information).
- **RDF:** the original annotation format (RDF) produced by the NotaBene annotation tool. See the [RDF/XML syntax specification](#) and the NotaBene documentation for more information. The RDF file can be used to correct the annotation in NotaBene, but you need to pair it with the XML text source file. Please contact us if you want to work with the RDF files.

This list of texts is not final. Please refer to the project homepage <http://srcmf.org> for the up-to-date list.

Title	Date	Words
<i>Serments de Strasbourg</i>	842	117
<i>Sequence de Sainte Eulalie</i>	881	191
<i>Vie de Saint Alexis</i>	vers 1050	4 832
<i>Passion de Clermont</i>	2nde moitié 10e	2 749
<i>Vie Saint Léger</i>	2nde moitié 10e	1 398
<i>Chanson de Roland</i>	vers 1100	29 338
<i>Lapidaire en prose</i>	milieu 12e	4 799
<i>Tristan de Beroul</i>	entre 1165 et 1200	27 257
<i>Yvain de Chretien de Troyes</i>	1177-81	42 103
<i>Quatre Livres des Rois</i>	fin 12e	40 000
<i>Aucassin et Nicolette</i>	fin 12e/déb. 13e	10 009
<i>La Conquete de Constantinople de R. de Clari</i>	après 1205	33 994
<i>Queste del Saint Graal</i>	vers 1220	40 000
<i>Miracles de G. de Coinci</i>	1218-1227	25 000
<i>Roman de la Rose de J.de Meun</i>	1269-1278	20 000

3 Documentation

3.1 First readings

- The [SRCMF tutorial \(PDF\)](#)
- [The list of categories \(English/French\) and a tree view of the hierarchy of syntactic categories \(1 page, PDF\)](#)

3.2 The SRCMF grammar model

The syntactic categories of the SRCMF annotation and the grammatical principles of the annotation are explained in detail in the [Fiches de documentation des catégories SRCMF](#).

The *fiches* are a compilation of filecards (in French), with one card for each category. They contain a large number of annotation examples and are intended as a reference for corpus users and a guideline for the annotation of new texts.

3.3 Further reading

- Have a look at the presentation of the corpus at the LSRL 43 (New York, 2013) to get an idea of the corpus and the annotation principles. Download the [slides \(pdf\)](#) or watch the tools in action on [YouTube \(17min.\)](#).
- Use the TigerSearch manual (part of the TigerSearch installation, chapters 3 and 4) or the [documentation on the TigerSearch homepage](#)
- This [TIGER/SRCMF tutorial for students](#) includes hints for the TIGERSearch installation and more query examples.
- Or try some of the queries we prepared for the SRCMF annotation (see section [4.2.3](#) below).

4 Tools

4.1 NotaBene

NotaBene is a tool for syntactic corpus annotation, developed by Nicolas Mazziotta. It is described in [Mazziotta \(2010a\)](#).

- Download [NotaBene on Sourceforge](#).
- The latest NotaBene documentation is included in the distribution.

4.2 TigerSearch

4.2.1 TigerSearch distribution

- [TigerSearch Homepage](#). TigerSearch was developed by the Institut für Maschinelle Sprachverarbeitung, Universität Stuttgart, see [Lezius \(2002\)](#).
- Updated TigerSearch Distributions (ZIP files): use these files for the installation (the original windows installation file does not work in all versions of Windows, and the tiger.jar had to be updated for Max OS X).
 - for Windows: [ZIP file \(42 MB\)](#), unpack and install under C: (i.e. in the top directory of your hard disk)
Start the programme by clicking on the file
`C:\TigerSearch\bin\TigerSearch.exe`
(don't confound the exe file with the Tiger icon file)

- for Mac: [ZIP file](#), 44 MB, unpack and install under [your home directory]/Applications
Start the programme by clicking on the file
[your home directory]/Applications/TIGERSearch/lib/runTS.command
(if you wish to install the programme elsewhere, you must adapt the path in runTS.command)

4.2.2 Syntactic concordances for TigerSearch

The [KNIC Concordances](#) tool allows the user to transform TIGER XML files containing search results into a tabular format. See [Rainsford & Heiden \(2014\)](#) ([pdf version](#)) for a scientific presentation of the tool; and the tutorial contains instructions specific to SRCMF.

4.2.3 TigerSearch queries for SRCMF

Queries will be published here. In the meantime, consult the [TIGER/SRCMF tutorial](#) for some commented query examples (ready to paste into TigerSearch).

4.3 TXM

The text/corpus analysis platform TXM is available on [Sourceforge](#) for various platforms (Windows, Linux, Mac OS X).

4.4 TreeTagger and parameter files

The TreeTagger software can be downloaded [from Helmut Schmid's website](#). The SRCMF project provides:

- a TreeTagger Parameter file for Old French with the Cattex 2009 tagset (without lemmatisation): [from this BFM Website](#).
- a TreeTagger Parameter file for Old French with the NCA tagset, including partial lemmatisation: [from Achim Stein's homepage \(ZIP file\)](#). See [the list of tags](#) and [Kunstmann & Stein \(2007\)](#) for information on the NCA tagset.

4.5 Models for dependency parsing

Parser models made available here may be downloaded for non-commercial, non-profit use only.

- For **mate tools** parsers: [link to homepage](#) (Björkelund et al., 2010; Bohnet, 2010; Bohnet & Nivre, 2012).
 - [The LREC 2014 model \(ZIP, 47MB\)](#) was trained on 11 SRCMF texts (206323 words). Input text must be tokenized as in SRCMF (spaces after apostrophes, e.g. *l'ot*, not *l'ot*). Punctuation is not recognized. The training procedure is described in [Stein \(2014\)](#).

- Updated Old French models for two [mate tools](#) parsers, trained on [SRCMF 0.9 texts](#), as described in [Stein \(2016\)](#). The paper and a *readme* file are contained in the zip archives. These models are provided for the LREC *share your LRs* initiative.
 - * for the [mate tools joint transition parser \(zip, 362MB\)](#): joint analysis of part of speech, morphological features, and dependencies
 - * for the [mate tools graph-based parser \(zip 67MB\)](#): contrary to the approach described in the LREC paper, this package contains models for a full mate tools pipeline including lemmatisation, part of speech, morphological features, and dependencies. Results can be slightly improved if lemmatisation and tagging are done using *TreeTagger* and *Marmot*, see my other resources.

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5 ChangeLog

21.10.13 Demo TIGER versions of two texts installed (graal, yvain). See Download section 2.2.

14.07.13 Internal TIGER version of the complete corpus installed. See Download section 2.2.

26.03.14 First parser models published (section 4.5). License conditions updated. (Internal) TIGER version of the complete corpus updated. New reviewed texts published.

02.03.15 Documentation files updated. (Internal) TIGER version of the complete corpus updated.

06.03.15 New texts published. License status changed for several texts.

24.09.15 License conditions changed for some texts. Version numbering for the full corpus introduced: this new version is 0.8. New attributes introduced to facilitate some Tiger queries (see documentation).

01.10.15 License conditions changed for Roman de la Rose.

25.10.15 New resources for dependency parsing.

13.11.15 Information about prose/verse added.

3.3.16 Word numbers in table updated. 'Quatre Livres des Rois' released. Direct speech marked in 'Yvain'. Full SRCMF corpus version 0.9 published.

11.3.16 SRCMF version 0.91 published (bug fixes only in the full versions. Aucassin was missing in the full version 0.9).

8.6.16 Old French parser models (presented at LREC 2016) published.

16.8.17 SRCMF version 0.92 published: Part of speech annotation corrected in St. Alexis. All texts now freely downloadable.

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