4. Installing RA Workbench

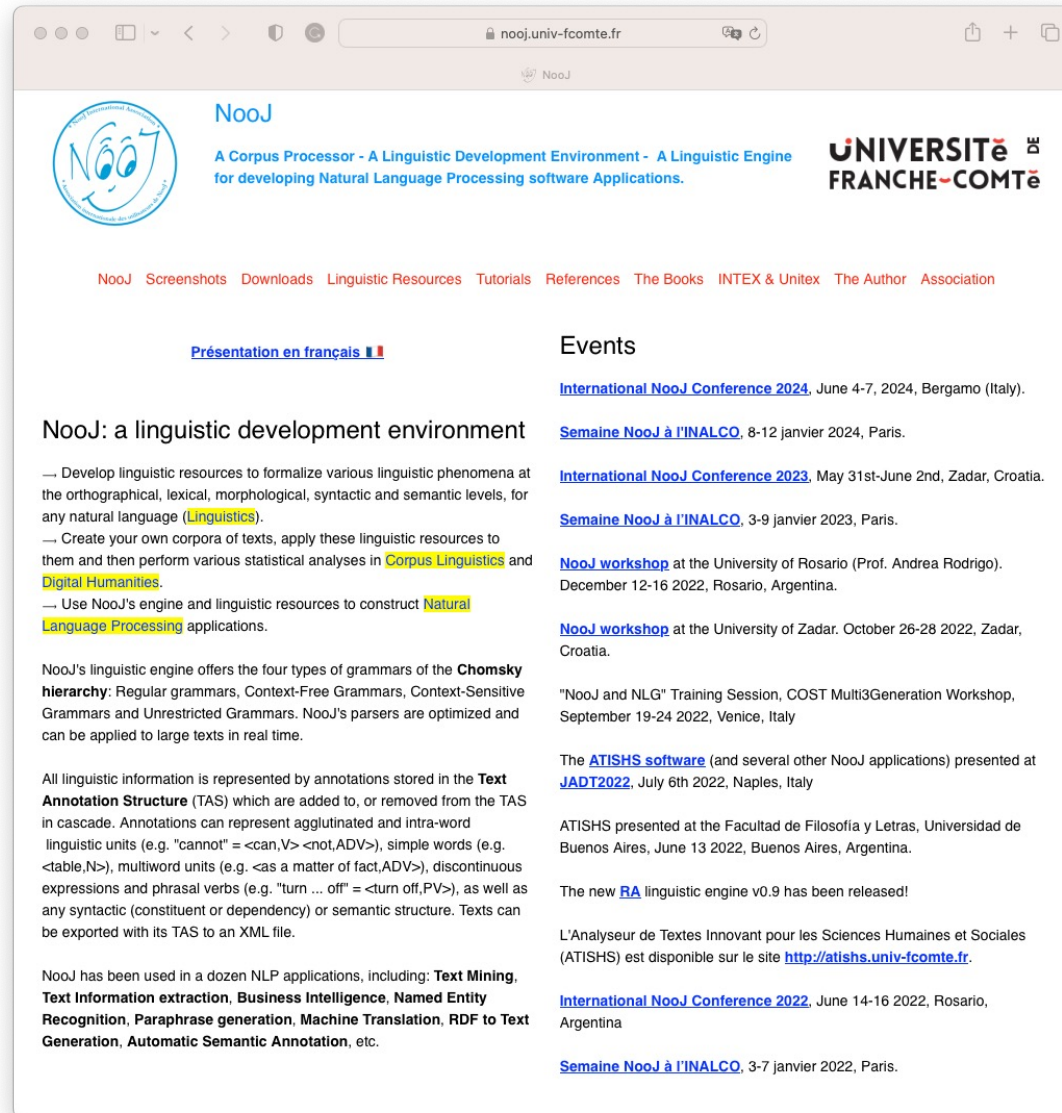## A step-by-step guide

Installing NooJ
The four variants

1. NooJ for Windows: the complete toolbox. Runs on Windows (.NET technology).

2. NooJ for Java: a simplified version of NooJ for demos and students of Software Engineering: well-documented open-source (JAVA technology)

3. ATISHS for macOS: a French application in the Digital Humanities, various statistical tools (macOS technology)

4. RA for Linux, macOS, and Windows: the new engine, used in the WEB application https://webnooj.univ-fcomte.fr (Swift, Vapor technology)

RA Workbench: Step 1
Go to https://nooj.univ-fcomte.fr

RA Workbench: Step 2
Go to "Downloads" page

CLick here
to download
file:
RA-Workbench.zip

NooJ

A Corpus Processor - A Linguistic Development Environment - A Linguistic Engine for developing Natural Language Processing software Applications.

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NooJ   Screenshots   Downloads   Linguistic Resources   Tutorials   References   The Books   INTEX & Unitex   The Author   Association

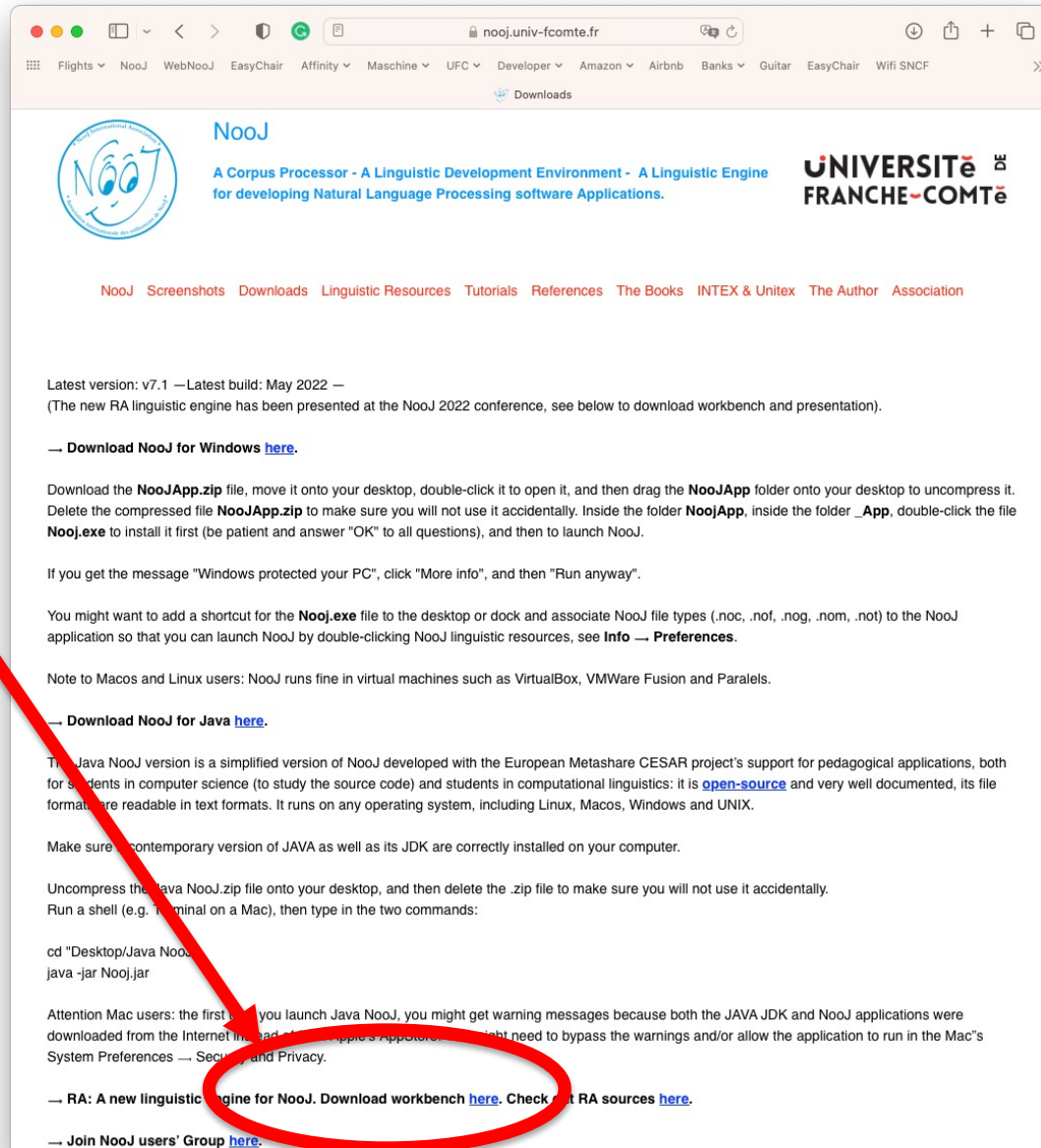Latest version: v7.1 —Latest build: May 2022 —
(The new RA linguistic engine has been presented at the NooJ 2022 conference, see below to download workbench and presentation).

→ Download NooJ for Windows **here**.

Download the **NooJApp.zip** file, move it onto your desktop, double-click it to open it, and then drag the **NooJApp** folder onto your desktop to uncompress it. Delete the compressed file **NooJApp.zip** to make sure you will not use it accidentally. Inside the folder **NoojApp**, inside the folder **_App**, double-click the file **Nooj.exe** to install it first (be patient and answer "OK" to all questions), and then to launch NooJ.

If you get the message "Windows protected your PC", click "More info", and then "Run anyway".

You might want to add a shortcut for the **Nooj.exe** file to the desktop or dock and associate NooJ file types (.noc, .nof, .nog, .nom, .not) to the NooJ application so that you can launch NooJ by double-clicking NooJ linguistic resources, see **Info → Preferences**.

Note to Macos and Linux users: NooJ runs fine in virtual machines such as VirtualBox, VMWare Fusion and Paralels.

→ Download NooJ for Java **here**.

The Java NooJ version is a simplified version of NooJ developed with the European Metashare CESAR project's support for pedagogical applications, both for students in computer science (to study the source code) and students in computational linguistics: it is **open-source** and very well documented, its file formats are readable in text formats. It runs on any operating system, including Linux, Macos, Windows and UNIX.

Make sure a contemporary version of JAVA as well as its JDK are correctly installed on your computer.

Uncompress the Java NooJ.zip file onto your desktop, and then delete the .zip file to make sure you will not use it accidentally.
Run a shell (e.g. Terminal on a Mac), then type in the two commands:

cd "Desktop/Java Nooj
java -jar Nooj.jar

Attention Mac users: the first time you launch Java NooJ, you might get warning messages because both the JAVA JDK and NooJ applications were downloaded from the Internet instead of from Apple's AppStore. You might need to bypass the warnings and/or allow the application to run in the Mac"s System Preferences → Security and Privacy.

→ RA: a new linguistic engine for NooJ. Download workbench **here**. Check out RA sources **here**.

→ Join NooJ users' Group **here**.

RA Workbench: Step 3
Uncompress the **RA-Workbench.zip** package

- Decompress (Unzip)
RA-Workbench.zip
to get folder **RA-Workbench**
Drag folder to Desktop

- Double click folder **RA-Workbench** to open it.
Check that the three folders **_windows**, **_macos**, **_linux** are present.

RA Workbench: Step 4
Check **RA** content

- run the **Terminal** App

- Enter the command **cd "Desktop/RA-Workbench"**

- Enter the command **ls** to display the content of the workbench

```
[~ % cd Desktop/RA-Workbench
[Desktop/RA-Workbench % ls
_ README linux.pdf          multipleprefixes.nom      segmenter.nom           simpleinflection3.nof
_ README macos.pdf          multipleprefixes.ra       segmenter.ra            simpleregexp.nom
_ README windows.pdf        multipleprefixes.txt      segmenter.txt           simpleregexp.ra
_linux                      np.nog                    simpledictionary.dic    test.not
_macos                      np.ra                     simpledictionary.lst    test.tas
_windows                    np.txt                    simpledictionary.ra     test.txt
contractions.nom            pp.nog                    simpledictionary.txt    test2.not
contractions.ra             pp.ra                     simpledictionary2.dic   test2.txt
contractions.txt            pp.txt                    simpledictionary2.lst   test3.idx
csar.nom                    propernameism.nom         simpledictionary2.ra    test3.not
csar.ra                     propernameism.ra          simpledictionary3.dic   test3.txt
csar.txt                    propernameism.txt         simpledictionary3.lst   verbable.nom
disamb.nog                  properties.def            simpledictionary3.ra    verbable.ra
disamb.ra                   reverb.nom                simpleinflection.nof    verbable.txt
disamb.txt                  reverb.ra                 simpleinflection.ra
listoflexicalresources.json reverb.txt                simpleinflection2.nof
Desktop/RA-Workbench %
```
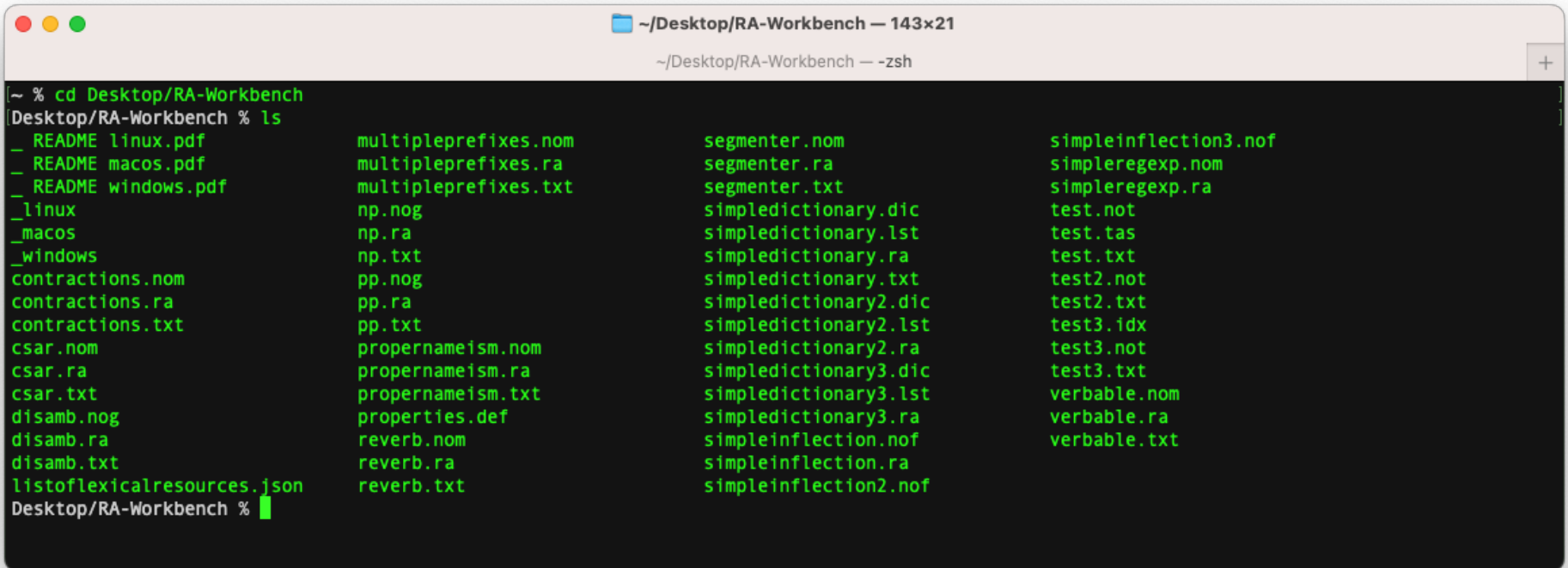
RA Workbench: Step 5
Test **RA**

A few commands:

$ **cat test3.txt** to display the sample text **text3.txt**

$ **_macos/segment test.txt segmenter.ra** to segment text into sentences and create **test3.not**

$ **_macos/lexicalanalysis test.not simpledictionary3.ra properties.def** to lookup dictionary and add annotations to **test3.not**
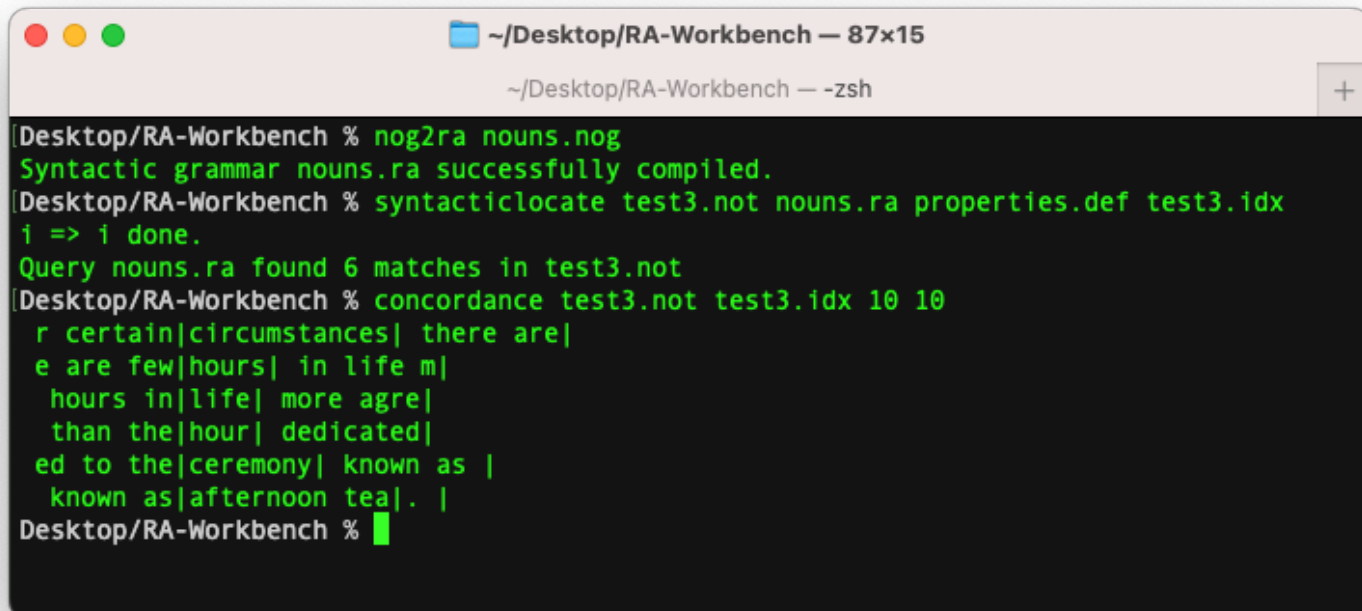
$ **_macos/printtas test3.not** to display the Text Annotation Structure of text **test3.not**

$ **echo "Main = <N> ; " > nouns.nog** to create the syntactic grammar **nouns.nog**

$ **_macos/nog2ra nouns.nog** to compile the syntactic grammar into finite-state machine **nouns.ra**

$ **_macos/syntacticlocate test3.not nouns.ra properties.def test3.idx** to construct the index of all nouns and save it in **test3.idx**

$ **_macos/concordance test3.not test3.idx 10 10** to display the concordance of all nouns

Problems?

- If the system does not find the RA commands, add the corresponding directory to the $PATH variable, *e.g.,* in **.profile** or **.zshrc** file in your home directory, add the line:
  - for macOS: **PATH="~/Desktop/RA-Workbench/_macos:$PATH"**
  - for LINUX: **PATH="~/Desktop/RA-Workbench/_linux:$PATH"**

- During the unzip process, some operating systems reset files read and/or execute permissions.
  1. Get to the corresponding directory, e.g., **cd _macos**
  2. Change permissions, e.g., **chmod u+rx ***

- Other problem?
  - Contact max.silberztein@gmail.com

CONGRATULATIONS

You have successfully installed

RA Workbench

(Now you have to read the documentation)