Emacs manuals translation and **OmegaT**

Translation in the Free Software World

- Localization and translation are all over free software
- The GNU project warmly welcomes translation
- Tools and processes vary, but all the communities have found a way to provide localized versions of the software package they manage.

All the communities? errr, well, not quite...

- GNU's own flagship, Emacs, is not there yet...
- There are plenty of *good* technical and human reasons why that is not the case (check the emacs-devel list for background information)
- But in the likely case that Emacs won't be fully localized before global temperatures rise by more than 2 degrees, we can still translate the manuals...

Emacs manuals

- as of today (nov. 7), we output:
 - 182 files
 - 2,266,158 words
 - 15,830,468 characters
- 2000 words a day, 365 days a year = about 3 years, 1 month, 8 days...

Is everything good to translate?

Obviously, not...

```
@c Merge all indexes into a single index for now.
@c We can always separate them later into two or more as needed.
@syncodeindex vr cp
@syncodeindex fn cp
@syncodeindex ky cp
@syncodeindex pg cp
@syncodeindex tp cp
@c @footnotestyle separate
@c @paragraphindent 2
@c @@smallbook
@c %**end of header
```

Only this part...

@copying

This manual documents the Semantic library and utilities.

Formats!!! How to deal with "meta" things...

- Translators should not have to deal with that many "meta" things.
- Nobody would think of translating inside TeX, or DocBook, or, would you?...
- There is a way to deal with "meta" document things, just like there is a way to deal with "meta" code things.
- The gettext utility has brought us the Portable Object format for code
- po4a does the same for documentation

.texi / .org → po4a → P0

```
#. type: top
    Et voilà!
                        #: /Users/suzume/Documents/Repositories/Projet OmegaT de Documentation Emacs -
                        #: Sources/doc/misc/semantic.texi:5 /Users/suzume/Documents/Repositories/Projet
                        #: OmegaT de Documentation Emacs - Sources/doc/misc/semantic.texi:81
                        #, no-wrap
                        msgid "@value{TITLE}"
                        msgstr ""
                        #. type: include
                        #: /Users/suzume/Documents/Repositories/Projet OmegaT de Documentation Emacs -
                        #: Sources/doc/misc/semantic.texi:6
  Not perfect,
                        #, no-wrap
but much better..
                        msgid "docstyle.texi"
                        msgstr ""
                        #. type: copying
                         #: /Users/suzume/Documents/Repositories/Projet OmegaT de Documentation Emacs -
                         #: Sources/doc/misc/semantic.texi:27
                        msgid "This manual documents the Semantic library and utilities."
                        msgstr ""
```

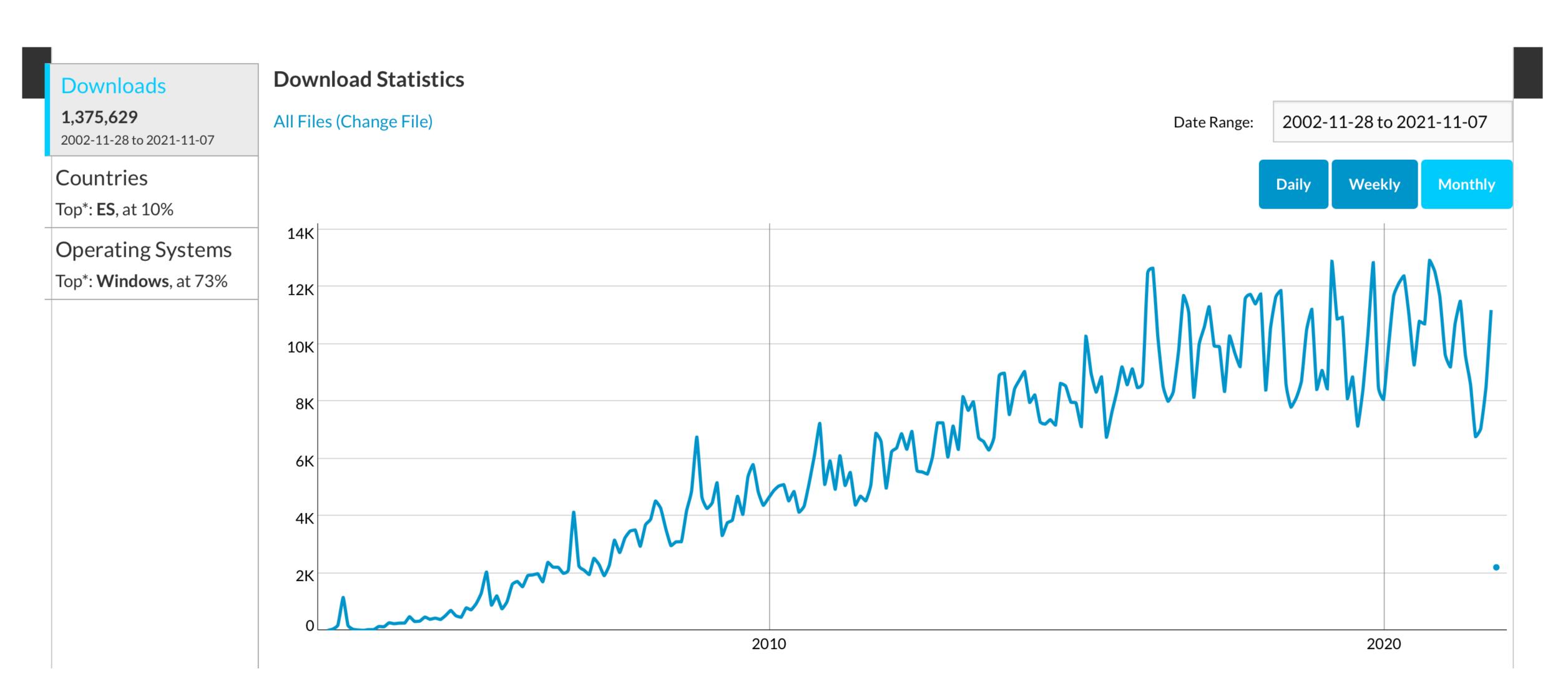
How many words now?

- OmegaT statistics on the same file set:
 - 182 files
 - 1,920,945 words (-15.2%)
 - 12,094,820 characters (-23.6%: that much less to type!)
- still quite a mouthful: about 2 years, 7 months, 20 days...

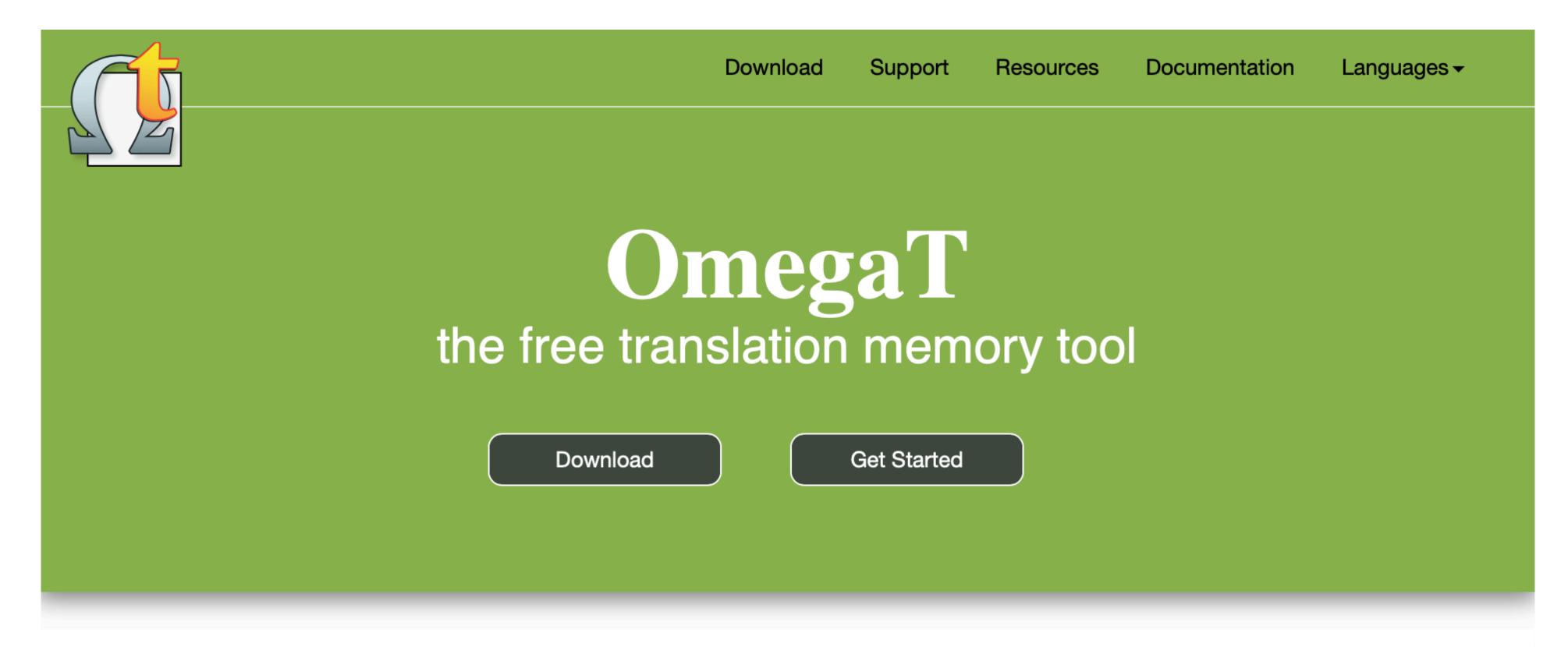
"OmegaT"? Did you say "OmegaT"?

- OmegaT is a GPL3+ Java8+ "Computer Aided Translation" tool
- CATs are not good only for cute pictures
- They are also good for professional translators
- CATs are to translators what IDEs are to programmers
- They leverage the power of the computer to automate reference searches

19 years old this month...



We have a cool logo and a cool site too...



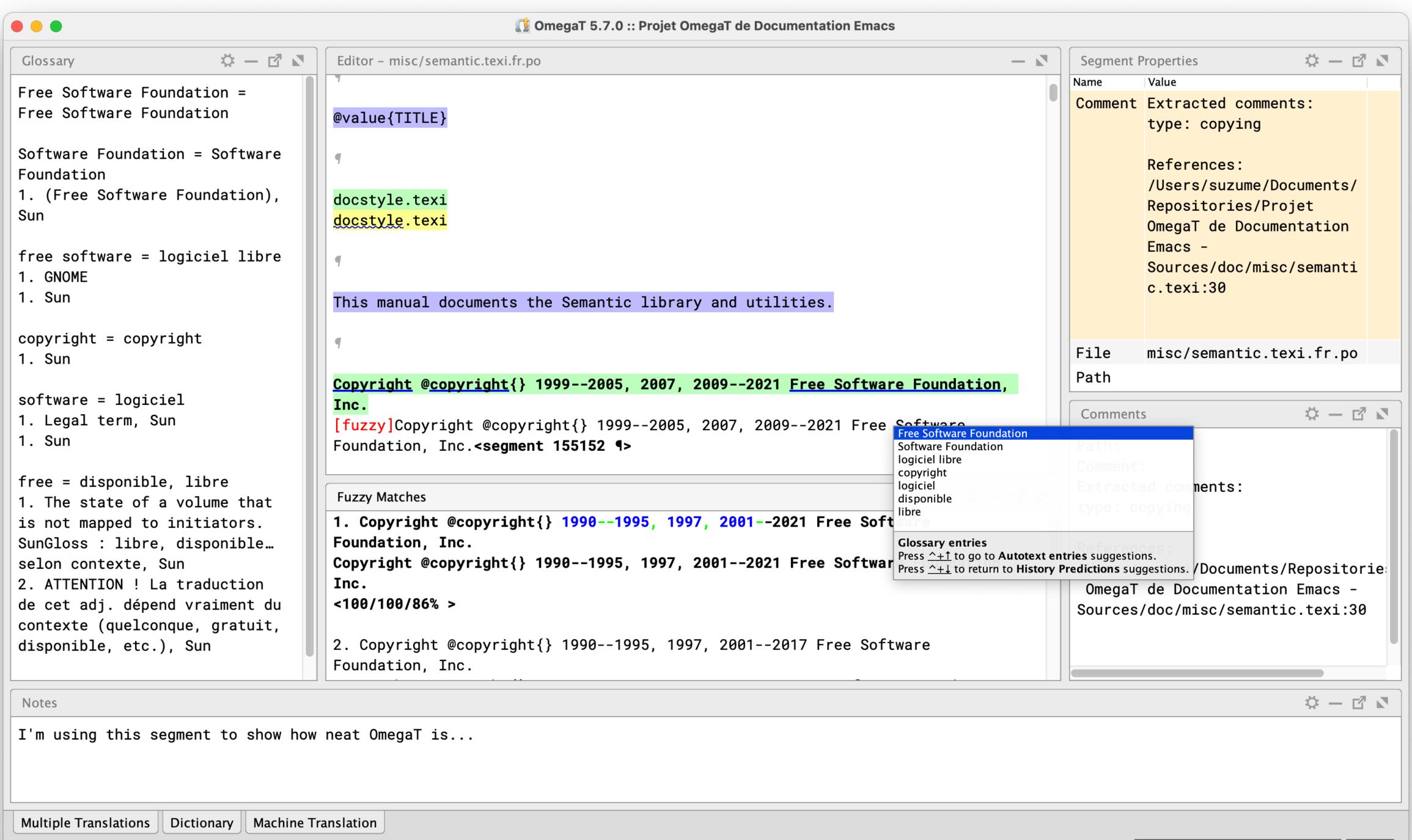
OmegaT is a free translation memory application that works on Windows, macOS, Linux... It is a tool intended for professional translators. It does not translate for you! (Software that does this is called "machine translation", and you will have to look elsewhere for it.)

What does OmegaT bring to the game?

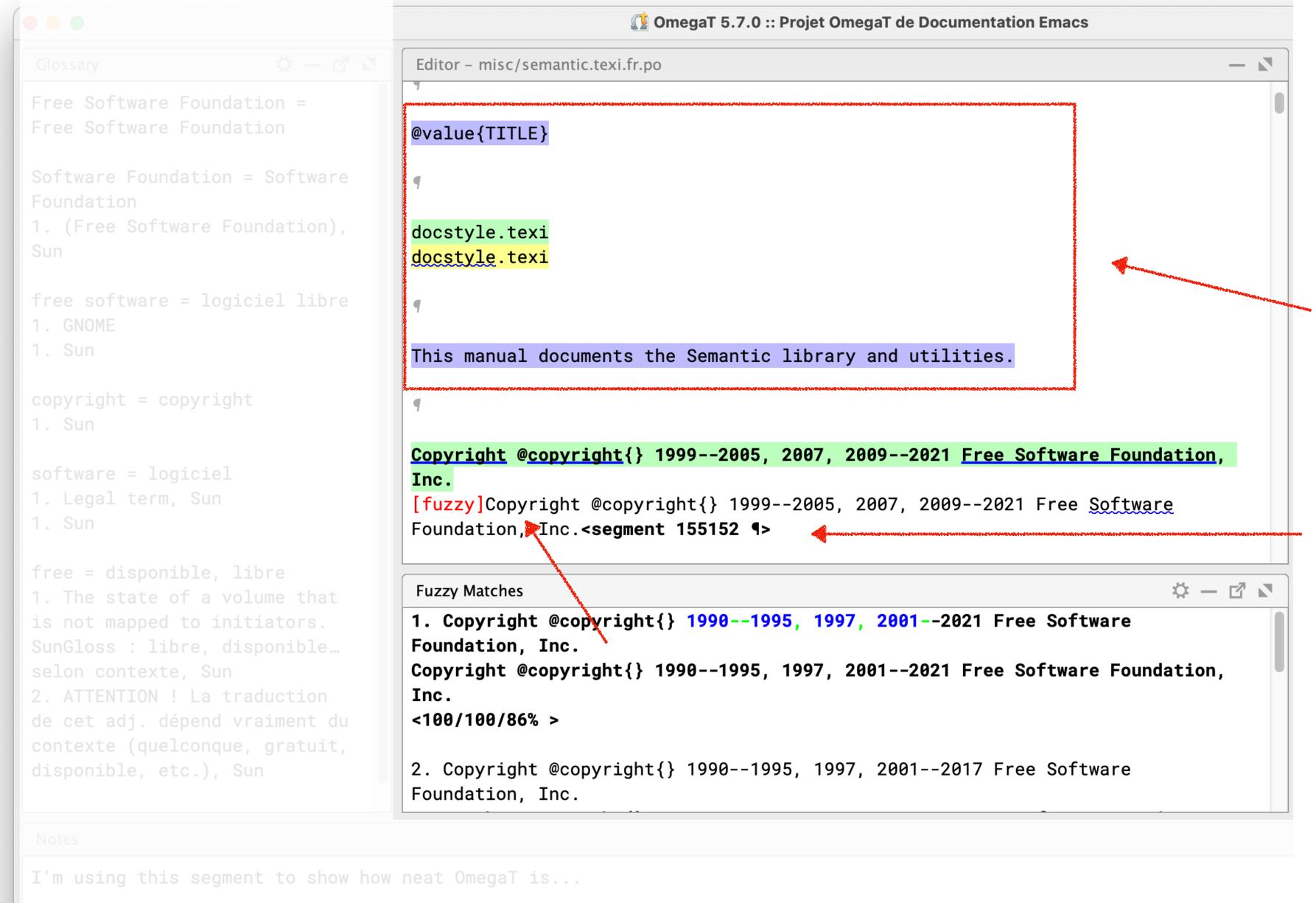
- Professional translators have a problem, they get paid for delivering
 - fast,
 - consistent,
 - quality translations...

So they need to use tools that help them to achieve that...

... and sadly, po-mode is not part of the tool set.



Project autosaved on $8:37\ PM$



This part is the Editor

You can see the 3 segments we had at the top of the PO file.

The segment being currently edited is shown with its number.

And a "fuzzy" match has been found in legacy translations and has been automatically inserted.







Free Software Foundation =
Free Software Foundation

Software Foundation = Software Foundation

(Free Software Foundation),
 Sun

free software = logiciel libre

- 1. GNOME
- 1. Sun

copyright = copyright

1. Sun

software = logiciel

- 1. Legal term, Sun
- 1. Sun

free = disponible, libre

1. The state of a volume that is not mapped to initiators.

SunGloss: libre, disponible... selon contexte, Sun

2. ATTENTION! La traduction de cet adj. dépend vraiment du contexte (quelconque, gratuit, disponible, etc.), Sun

Editor – misc/semantic.texi.fr.po

@value{TITLE}

docstyle.texi

nis manual documents the Semantic library and utilities.

[fuzzy]Copyright @copyright{} 1999--2005, 2007, 2009--2021 Free Foundation, Inc.<segment 155152 ¶>

Fuzzy Matches

<100/100/86% >

1. Copyright @copyright{} 1990--1995, 1997, 2001--2021 Free Sof
Foundation, Inc.
Copyright @copyright{} 1990--1995, 1997, 2001--2021 Free Softwa

. Copyright @copyright{} 1990--1995, 1997, 2001--2017 Free Softwa

That part over there is the Glossary viewer

Matching glossary items are underlined in the current segment

And this popup here

Free Software Foundation

Software Foundation
logiciel libre
copyright
logiciel
disponible
libre

Glossary entries

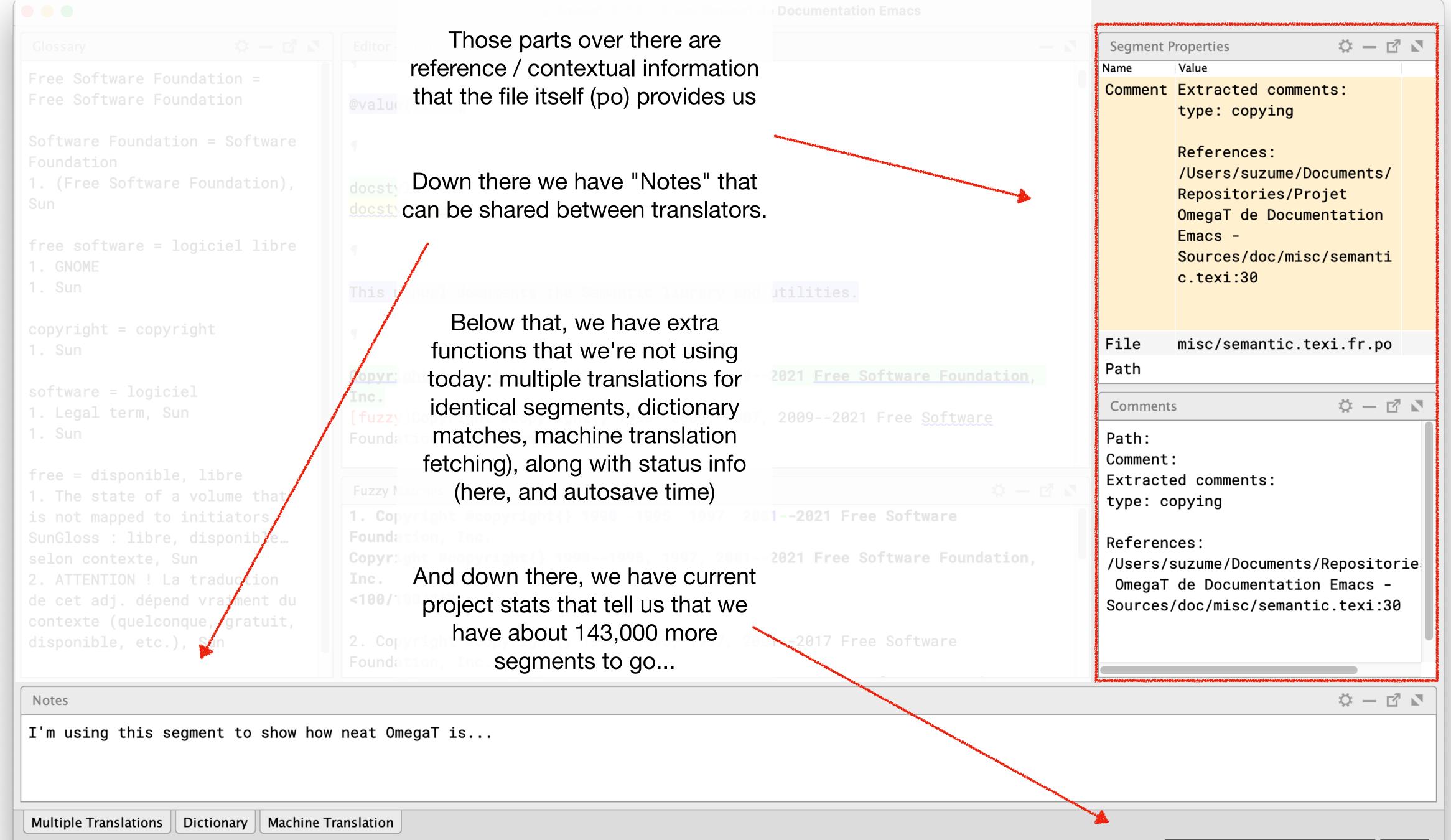
Press $\frac{\wedge+1}{}$ to go to **Autotext entries** suggestions. Press $\frac{\wedge+1}{}$ to return to **History Predictions** suggestions.

> is actually an auto-complete system that not only works with glossary items, but also history predictions, predefined strings, etc.

Notes

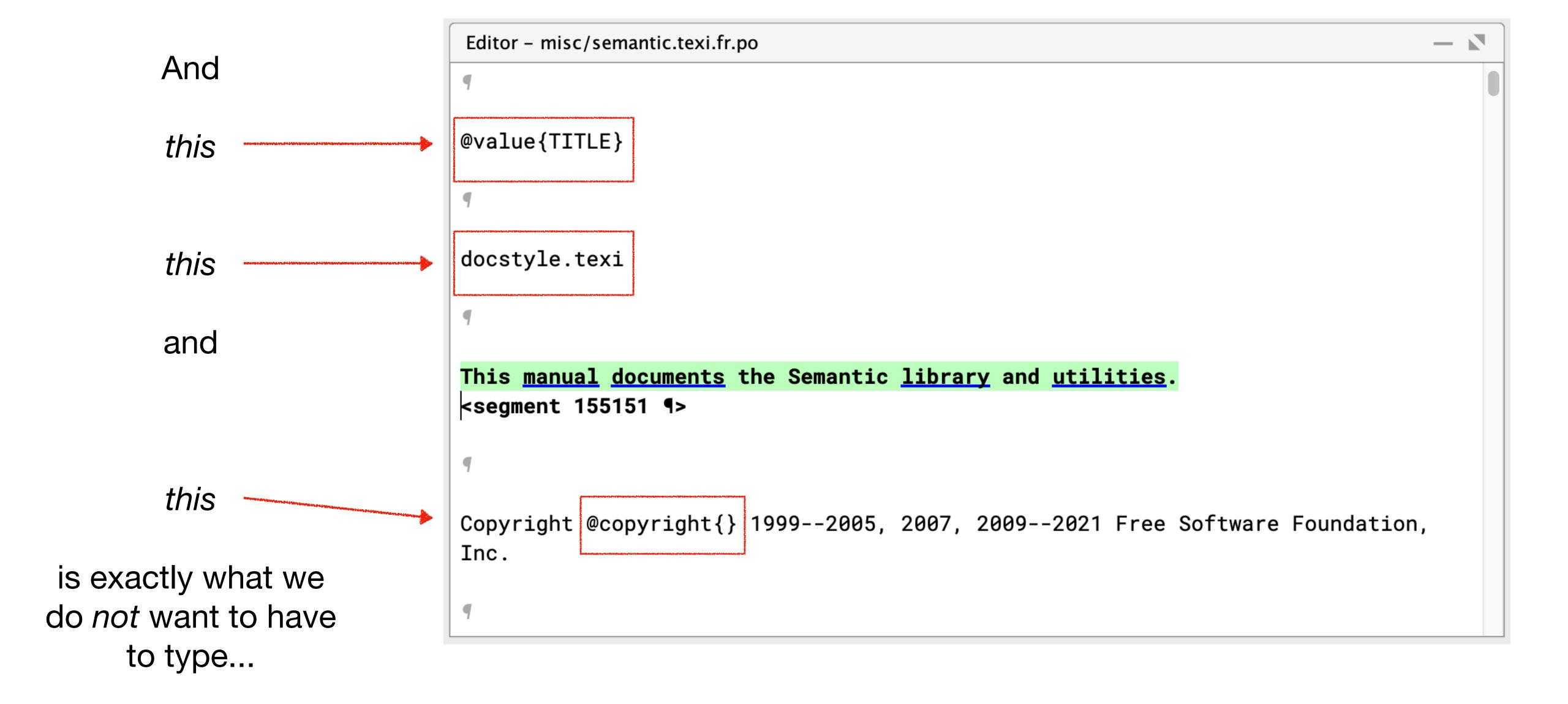
I'm using this segment to show how neat OmegaT is..

Multiple Translations



Project autosaved on $8:37\ PM$

But we still have about 12,000,000 characters to type...



Texinfo is not native to OmegaT

- All those things are strings that *must* be reproduced in the translation but are tiresome and error-prone to type.
- OmegaT allows the user to define protected strings with regular expressions so that such strings can be
 - visualized right away in the source segment
 - entered semi-automatically
 - checked for integrity

I love regular expressions...

And now?

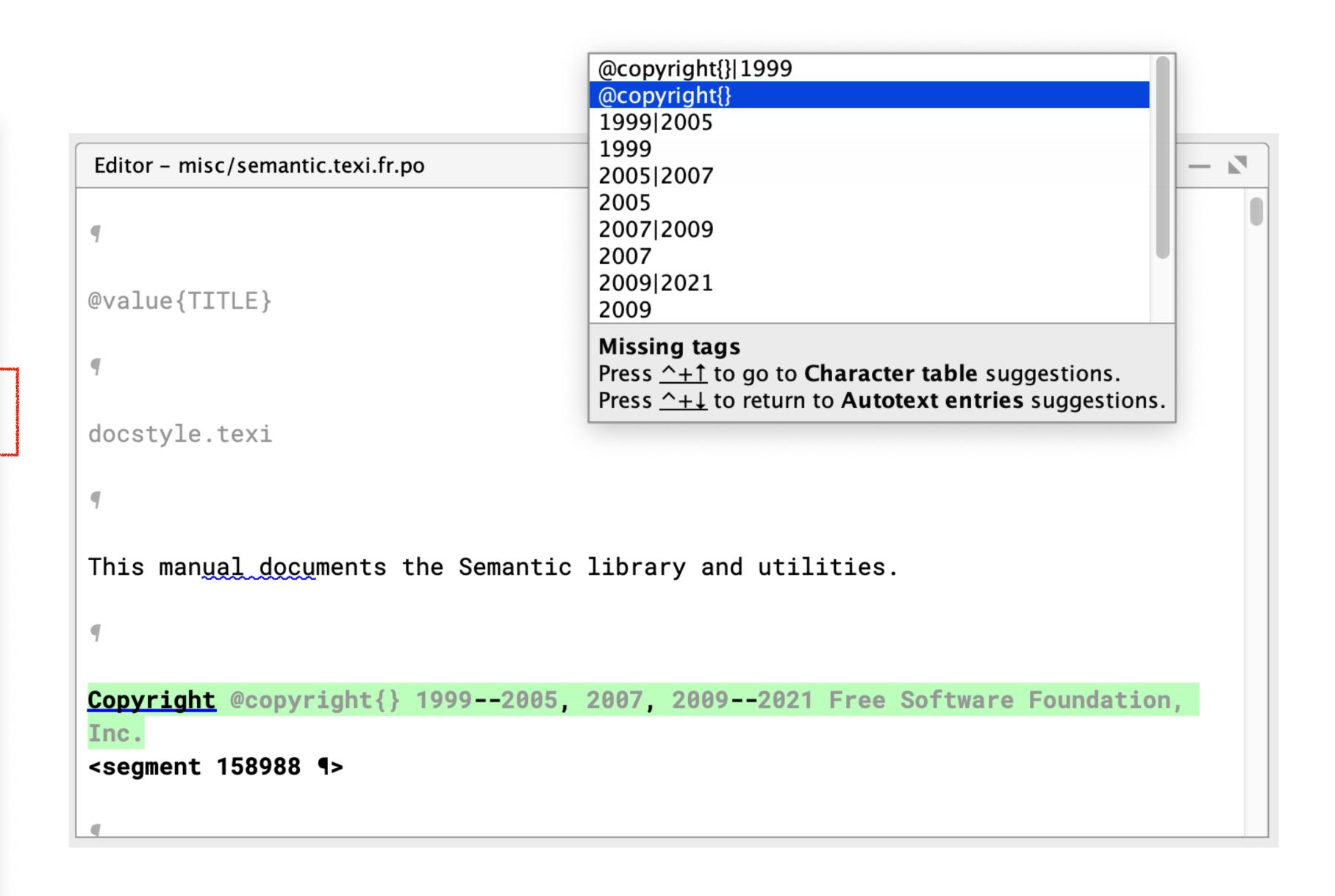
visualize right away...



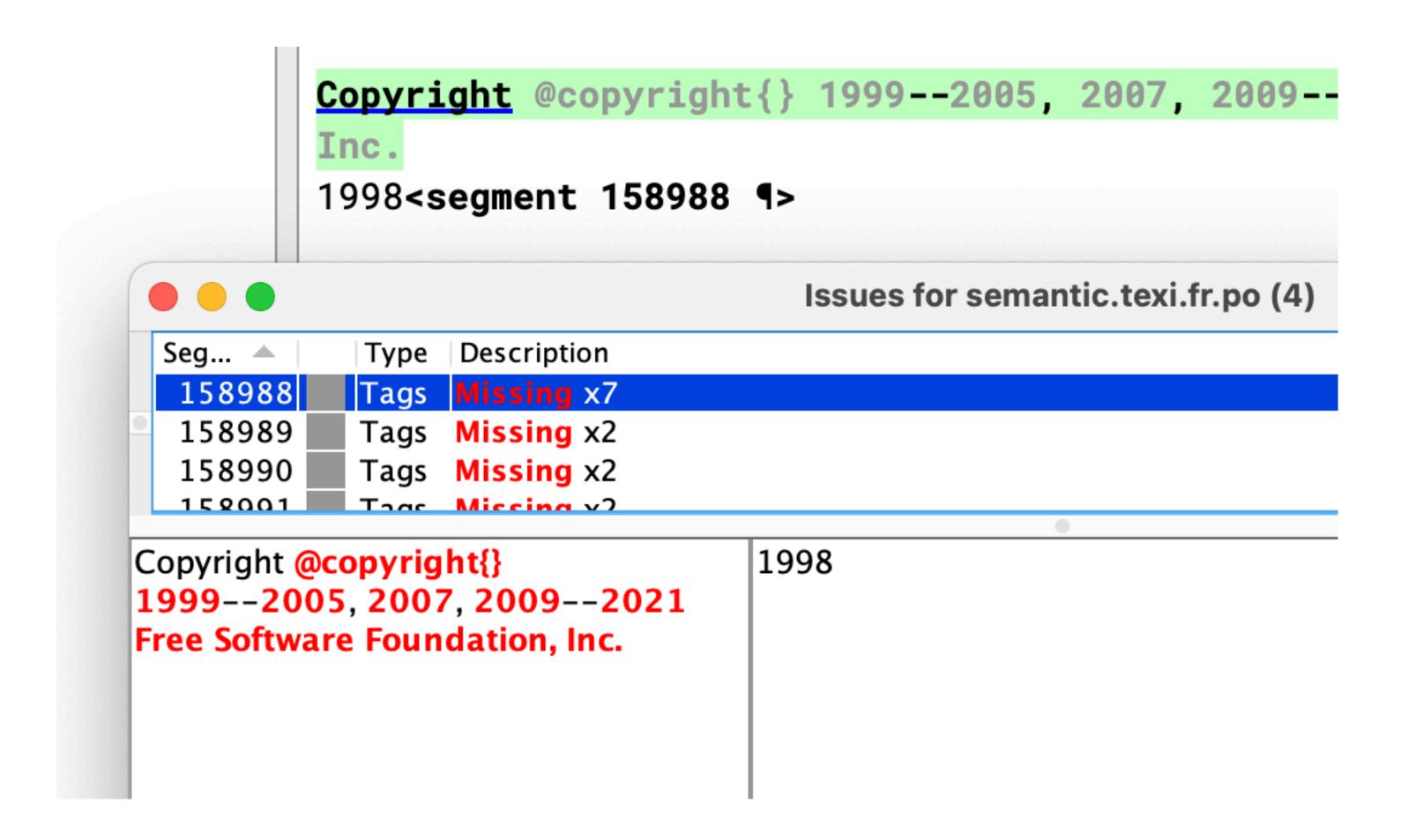
and you probably noticed that I cheated a bit because I added years and the name of the FSF to the earlier regex...

So what?

Undo Last Action	₩Z
Redo Last Action	ЖY
Replace with Match or Sel	ection #R
Insert Match or Selection	₩ 1
Replace with Machine Tran	nslation #M
Replace with Source	☆業R
Insert Source	☆第
Insert Missing Source Tag	s 企業T
Insert Next Missing Tag	₩ T
Export Selection	☆業C
Create Glossary Entry	☆₩G
Search Project	₩F
Search and Replace	₩K
Search Dictionaries	
Switch Case To	>
Select Match	>
Insert Unicode Control Ch	aracter >
Use as Default Translation	1
Create Alternative Transla	tion
Remove translation	
Set empty translation	
Register Identical Translat	ion 企業S



So what? Part II



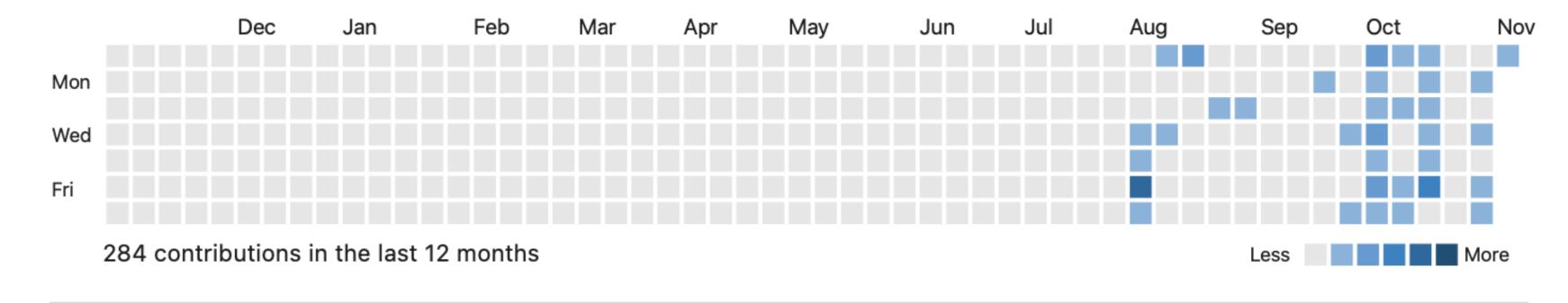
Almost native Texinfo support means

- 248,182 such protected strings ⇒ 248,182 semi-automatic entries
- about 2,106,537 characters *less* to type (-16.7%)...
- about 232,041 words less to type (-12.1%)...
- We're down to 2 years, 3 months, 25 days.
- And if we add the proper regex for org we're even better off.

This is still too much work for one translator

- OmegaT is a hidden svn/git client.
- Projects can be hosted on svn/git servers
- Translators only need credentials and OmegaT commits for them
- Translators do not have to know anything about VCS
- And nothing has to be done in those ugly and clumsy web-based translation interfaces...

One software to manage them all...





brandelune pushed to main at brandelune/documentation_emacs





bb034685ff Translated by suzume

32 seconds ago



OmegaT does all the heavy-duty work

- OmegaT regularly saves to and syncs from the server
- Translators are kept updated with work from fellow translators
- OmegaT offers a not scary "conflict resolution" dialog when necessary
- Translators never have to do anything with svn/git ever...

• Imagine, 4-5 translators who translate 500 words a day... Still a lot of work, but it starts to look realistic.

Thank you for being with me today/tonight

I promised I would not talk about:

- How to create an OmegaT project
- How to set up an OmegaT team project
- How to use OmegaT from the command line to work in localization pipelines
- How to use machine translation and MT "post-edit"
- How to convert back the translated files to texi format
- How to install translated texi files for use in Emacs

But I'm around, so if you are interested, don't hesitate to ask.