International quotations

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Introduction

At the conference in Portland last year, Christina Thiele asked me if I was willing to write an article for ttn about quotation marks. She said that she suspected that there would be many people out there who would want to know how to produce quotation marks in a little piece of, say, french, text that they include in their document that is otherwise written in english. All this is of course covered in the babel language specific style files, but for those who don't want to use babel but do need the occasional quotation mark I wrote this article.

Let me start with a disclaimer: I am not familiar with all the typographic conventions that are in use in the various countries all over the world. Also I can only give you macros for those languages for which a language specific babel file exists. So, there may be more conventions. If you know of them: please inform me, so that I can enlarge my collection.

Yet another disclaimer: If you have access to fonts with the EC (or Cork) encoding, you do not need most of the hackery in this article. These fonts include the characters that are needed so they need not be constructed.

The first part of this article¹ deals with the macros needed to typeset the quotation marks needed for various languages. First I'll introduce some internal hackery, then the macros that really produce quotation marks. I also give some shorthands to make the macros easy to use. Finally I will give some examples of the use of the macros. In the examples I will show the source text as well as the typeset result.

Some help macros

Because the macros in this part of the code are not intended for use in a document we'd like to 'hide' them from the user. Usually this is done by changing the category code of an 'other' character to letter. More often than not the '@' is chosen for this purpose. Sometimes the underscore is used for this purpose as well. Here I too will use the '_'. Of course the category code needs to be reset later so we store the current value in \uscatcode.

\chardef\uscatcode=\catcode'_
\catcode'_=11\relax

In some languages we need to lower quotation marks to the baseline. For this purpose we use the macro

\set_low_box. It has one argument and uses \box0 to gives us its result. This macro comes from german.tex.

It first typesets a comma in box register 2 and its argument in box register 1. Then it computes the distance that the argument has to be lowered to reach the baseline. Finally it lowers the contents of box register 0 — using box register 0 again for the result — and adjusts the values for the height and depth of the box.

```
\def\set_low_box#1{\setbox2\hbox{,}%
  \setbox0\hbox{#1}%
  \dimen0\ht0 \advance\dimen0 -\ht2%
  \setbox0\hbox{\lower\dimen0 \box0}%
  \ht0\ht2 \dp0\dp2}
```

Using macros for quotation marks sometimes disturbes the spacefactor. Therefore we also need a macro to preserve it. This macro also stems from german.tex. It first checks if it is executed in horizontal mode, if that is the case the current spacefactor is stored in the macro _SF. Outside horizontal mode the macro _SF is empty. Then \save_sf_q typesets its argument and resets the spacefactor.

```
\def\save_sf_q#1{{\ifhmode
   \edef\_SF{\spacefactor\the\spacefactor}
   \else
   \let\_SF\empty \fi \leavevmode #1\_SF}}
```

Producing the quotation marks

In languages such as Dutch, German and Czech, the opening quotes are traditionally typeset at the baseline.

```
\def\loq{\protect\_loq}
\def\_loq{\save_sf_q{\set_low_box{''}%
\box0\kern-.04em}}
```

In Germany also the closing quotes are different from what is provided by TEX. They use something that looks like the english opening quotes as closing quotes. Obviously, if one didn't do anything about it, the spacing would be wrong. Therefore we need yet another macro, \icq .

 $^{^{1}}$ When the source of this article is run through IATEX it produces a file called quoting.tex which contains all the code that is described and used in the article.

In french typography, a very different kind of quotes is used, the so called 'guillemets'. To realise these guillemets, various macros have been floating around the net. According to the french.sty package by Bernard Gaulle, one of the oldest definitions is:

But, this does not *really* give the result that the french would like. Therefore, if you have access to the LATEX-symbol fonts it is better to use the following definition for the guillemets:

In the code above the control sequence \ly is used. It is an internal macro from the old font selection schem in IATEX. When you use the nfss you will have to define it:

Easy usage

In the previous section a couple of macros have been defined to make it possible to use various quotes. But it would be nice if one did't have to do so much typing each time they are used. To provide easy acces, it is common use in language specific files to introduce active characters. For the macros presented here, we could introduce three active characters, the ", < and the >.

```
\def\dq{"}\catcode'\"=\active
\def\lt{<}\catcode'\<=\active
\def\gt{>}\catcode'\>=\active
```

As you may have noticed, I saved a copy of the non active version of each character in a control sequence.

These are needed later on, when the active character has inspected its argument and decides that it needs to insert the non-active version of itself.

We use the active " to acces the low opening quotes and the german closing quotes, the other two are used to produce the guillemets. Here is the definition of the active characters:

But, be carefull when introducing new active characters. You have to make sure that they get deactivated at the right moment. Therefor we need to add them to macros such as \dospecials and — in case you use IATEX — $\ensuremath{\sc lospecials}$ and — in case you use IATEX — $\ensuremath{\sc lospecials}$ and a special sate way of doing this was found by Bernd Raichle. It involves using an extra macro $\add_special$.

```
\chardef\atcatcode=\catcode'\@
\catcode`\@=11\relax
\def\add_special#1{\begingroup
    \def\do{\noexpand\do\noexpand}
    \def\@makeother{%
        \noexpand\@makeother\noexpand}
    \edef\x{\endgroup
      \def\noexpand\dospecials{%
                     \dospecials\do#1}
      \expandafter\ifx\csname%
              @sanitize\endcsname\relax
                  \else
        \def\noexpand\@sanitize{%
               \@sanitize\@makeother#1}
      \fi}
    x
\catcode`\@=\atcatcode\relax
```

Once that macro is defined we use it to tell TEX to treat our active characters with caution.

```
\add_special\"
\add_special\<
\add_special\>
```

Wrapping up

These macros were defined while the category code of the '_' was changed. It must not be forgotten to 'undo' that change:

\catcode`_=\uscatcode\relax

Examples

A quotation in Dutch might look like this:

Hij zei: "`Ga je mee?''. Hij zei: "Ga je mee?".

But in French (using the definition that uses the LAT_EX symbol font) it would be:

Il disait: << Tu va? >>. Il disait: « Tu va? ». Whereas in Italian it might look like:

Lui dice: >>Andiamo?<<. Lui dice: »Andiamo? «.

To show the difference between the two definitions given for the guillemets, this is wat the 'old' version looks like:

Il disait: \oog\ Tu va? \ocg. Il disait: « Tu va?».