Gregorio and gregoriotex:
A project which provides tools for gregorian score engraving.

Homepage
Source code available on GitHub.

Contents

1 Gregoriotex Macros

The following sections document the macros available in the gregoriotex package. The format is as follows:

Macroname   *source file*

Arg	Value	Description
Arg #	Data type	Descriptor

The source file where the macro is defined is included for developers who wish to consult it.

Some of the macros intended for inclusion in the main.tex file by the user include usage examples.

2 User Controls

These functions are available to the user to customize elements of the score which cannot be controlled from the gabc file. They can be added to any `.tex` file. Do not add them to any `.gtex` or `.gabc` file.

2.1 Colors

Colors are strictly a LaTeX phenomena as currently implemented. All commands which change the color of text simply print the text without alteration in PlainTeX.

All colors can be redefined using `\definecolor`. See the `xcolor` package for documentation.

Example:

```
\definecolor{gregoriocolor}{RGB}{229,53,44}
```

grebackgroundcolor   *gregoriotex.sty*

Color gregoriotex uses to block out elements which have been printed, but shouldn't show (e.g., the staff line going through the interior of a punctum cavum) `{RGB}{255,255,255}` (white)

gregoriocolor *gregoriotex.sty*

Color of elements formatted by `\colored {RGB}{229,53,44}` (red similar to what is found in liturgical documents)

2.2 Environments

Environments are used to apply standard formatting to elements of the score. Redefining the environment (via a `\renewenvironment` command) allows the user to change how these elements appear in the score.

While environments are technically a LaTeX phenomena, for users of PlainTeXeach environment has a pseudo-environment equivalent which is used in place of the environment. The pseudo-enviroments are called with a `\start*` and `\stop*` command (where "*" is the name of the environment). To change the format of the text in the pseudo-environment, simply redefine these commands (usually you only need to redefine the `\start*` command). Just make sure that any new definition for `\start*` has `\begingroup` as the first line and for `\stop*` has `\endgroup` as the last line.

initialformat *gregoriotex.sty*

Defines how the first letter of a score appears when using leading initial. Defaults to `huge` (New Century Roman at 40pt in PlainTeX).
Example, to change the font of the first letter:

```
\renewenvironment*{initialformat}%
                {\fontfamily{ppl}\selectfont\huge}{}
```

   Deprecated version: `\greinitialformat`

biginitialformat *gregoriotex.sty*

Defines how the first letter of a score appears when using a 2-line leading initial. Defaults to `Huge` (New Century Roman at 80pt in PlainTeX)

   Deprecated version: `\grebiginitialformat`

abovelinetextstyle *gregoriotex.sty*

Defines how the text placed above the staff lines appears. Defaults to `small` and `italic` (`italic` only in PlainTeX).

Deprecated version: `\greabovelinestextstyle`

translationformat *gregoriotex.sty*

Defines how the translation text appears. Defaults to `italic`.

normalstafflinesformat

Defines how the staff lines will appear. Note that the staff lines are drawn with `\hrule` and so very few things will actually affect their appearance (color being the most prominent one that does). Empty default.

Deprecated version: `\grenormalstafflinesformat`

additionalstafflinesformat *gregoriotex.sty*

Defines how the additional staff lines (the little ones which are drawn for notes above or below the normal staff lines) appear. Defaults to `normalstafflinesformat`.

Deprecated version: `\greadditionalstafflinesformat`

lowchoralsignstyle *gregoriotex.sty*

Defines how the low choral signs should appear. Empty default.

Deprecated version: `\grelowchoralsignstyle`

highchoralsignstyle *gregoriotex.sty*

Defines how the high choral signs should appear. Empty default.

Deprecated version: `\grelowchoralsignstyle`

2.3 Commands

In general, commands should not be modified. Exceptions are noted below.

\colorred{#1} *gregoriotex.sty*

Colors its argument with `gregoriocolor` Modify color by changing `gregoriocolor`.

Arg	Value	Description
#1	string	The text to be colored.

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Example:

```
\colorred{This text is red.}
```

\colorredlines{#1}   *gregoriotex.sty*

Colors the staff lines.

Arg	Value	Description
#1	string	Must be a named color defined using \definecolor

Example:

```
\definecolor{myorange}{RGB}{221,86,8}
\coloredlines{myorange}
```

    Deprecated version: \grecoloredlines

\redlines   *gregoriotex.sty*

Short cut for coloring the staff lines `gregoriocolor`.
Equivalent to `\coloredlines{gregoriocolor}` Modify color by changing
`gregoriocolor`.

    Deprecated version: \greredlines

\normallines   *gregoriotex.sty*

Removes all formatting from staff lines.

    Deprecated version: \grenormallines

\setstaffsize{#1}   *gregoriotex.tex*

Changes the size of the staff (and the neumes placed on the staves).
Note: This does not change the size of the accompanying text (lyrics and/or translations).

Arg	Value	Description
#1	integer	Larger values for larger staves, smaller values for smaller staves. Default value is 17.

Example:

```
\setstaffsize{20}
```

Note: If set to `0` gregoriotex will use the default value.

Deprecated version: `\setgrefactor`

`\addtranslationspace` *gregoriotex.tex*

Add space below the stave for a translation. Has no effect if space is already allocated for a translation.

`\removetranslationspace` *gregoriotex.tex*

Removes the space below the stave for the translation (un-does `\addtranslationspace`). Has no effect if space is currently not allocated to a translation.

`\setfirstannotation{#1}` *gregoriotex.tex*

Macro to set the first (top) annotation above the initial. This macro automatically aligns the top of the annotation with the 4th bar line. This is equivalent to `\setfirstlineaboveinitial{#1}{#1}`.

See also `\setsecondannotation` for typesetting two lines of text above the initial.

Arg	Value	Description
#1	string	The text of the annotation.

Example:

```
\setfirstannotation{VIII g}
```

Deprecated version: `\gresetfirstannotation`

Deprecated version: `\writemode` (n.b. this applied small caps and bold automatically while `\setfirstannotation` does not.)

`\setfirstlineaboveinitial{#1}{#2}` *gregoriotex.tex*

Macro to set the first (top) annotation above the initial. This macros allows you to control how far below the top of the staff #1 (string containing contents of annotation) appears via the second argument. When its height is 0, the baseline of the annotation aligns with the 4th bar line. Positive values for the height push the annotation down. The argument cannot have

a negative height. #2 can be pretty much anything with a visible representation. `\newline` and `\\` are not respected in either #1 or #2. Note: large annotations which stick out above the staff will push the commentary up.

Arg	Value	Description
#1	string	The text of the annotation.
#2	string	Any text with a positive heigth.

Example:

```
\setfirstlineaboveinitial{I g2}{I}
```

    Deprecated version: `\gresetfirstlineaboveinitial`

`\setsecondannotation{#1}`   *gregoriotex.tex*

Macro to set the second (bottom) annotation above the initial.

Arg	Value	Description
#1	string	The text of the annotation.

Example:

```
\setsecondannotation{III a}
```
Can be used in conjunction with `\setfirstannotation` to typeset two lines of text above the initial.

```
\setfirstannotation{I Ant.}
\setsecondannotation{IV a}
```

    Deprecated version: `\gresetsecondannotation`

`\scorereference`   *gregoriotex.tex*

Does nothing.

`\commentary{#1}`   *gregoriotex.tex*

Marco to place the commentary (usually the scriptural reference) in the top right-hand corner of the score. While individual calls do not support multiple lines, the macro can be called multiple times; each call will typeset a new line.

Arg	Value	Description
#1	string	The text of the commentary.

Example:

```
\commentary{Ps. 109:3}
```

\removelines   *gregoriotex.tex*

Macro to remove the staff lines.

    Deprecated version: \greremovelines

\donotremovelines   *gregoriotex.tex*

Macro to force staff lines (undoes the effects of **\removelines**).

    Deprecated version: \gredonotremovelines

\settrantlationcenteringscheme{#1}   *gregoriotex.tex*

Macro to change the centering scheme for the translation.

Arg	Value	Description
#1	0	Translation is left aligned with the corresponding text.
	1	Translation is centered below the corresponding text.

Example:

```
\settranslationcenteringscheme{1}
```

    Deprecated version: \setgretranslationcenteringscheme

\setnlbintranslation{#1}   *gregoriotex.tex*

Macro to change whether line breaks are allowed in the translations.

Arg	Value	Description
#1	0	Line breaks are allowed.
	1	Line breaks are prohibited.

Example:

```
\setnlbintranslation{0}
```

\blockcustos *gregoriotex.tex*

Macro to block custos. Applies to all subsequent scores in group.

Deprecated version: **\greblockcustos**

\GreSetStaffLinerFormat{#1} *gregoriotex.tex*

Deprecated. Used to set the format for the staff lines. See above notes on the environments for updated documentation.

\includescore{#1} *gregoriotex.tex*

Macro for including scores. Works on both gabc and tex files.

Arg	Value	Description
#1	string	Relative or absolute path to the score.

Example:

```
\includescore{TecumPrincipium.tex}
\includescore{Chant/VirgoVirginum.gabc}
\includescore{/home/user/chant/AdTeLevavi}

%The following lines include the same score:
\includescore{Christus}
\includescore{Christus.gtex}
\includescore{./Christus}
\includescore{./Christus.gabc}
```

\includetexscore{#1} *gregoriotex.tex*

Macro for including scores which have already been run through gregorio (i.e. are in gtex format).

Arg	Value	Description
#1	string	Relative or absolute path to the .gtex score.

Deprecated version: **\greincludetexscore**

\includegabescore{#1} *gregoriotex.tex*

Macro for including scores which are in gabc format. This macro will run gregorio on the file before including it.

Arg	Value	Description
#1	string	Relative or absolute path to the .gabc score.

Deprecated version: `\greincludegabcscore`

`\GreUseNormalHyphen` *gregoriotex.tex*

Tell gregoriotex to use normal hyphens at the end of lines (default behavior).
Note: Placing an explicit hyphen in between special character brackets (i.e. <sp>-</sp>) in the gabc file will always result in a zero-width hyphen.
Note: This command only affects the hyphens within a score. Hyphens elsewhere in a document are unaffected (hence the "Gre" in the command name).

`\GreUseZeroHyphen` *gregoriotex.tex*

Tell gregoriotex to use zero-width hyphens at the end of lines.
Note: This command only affects the hyphens within a score. Hyphens elsewhere in a document are unaffected (hence the "Gre" in the command name).

`\GreForceHyphen` *gregoriotex.tex*

Tell gregoriotex to force the appearance of hyphens between all syllables.
Note: This command only affects the hyphens within a score. Hyphens elsewhere in a document are unaffected (hence the "Gre" in the command name).

`\removeclef` *gregoriotex-signs.tex*

Macro to remove the clefs from a score.
Deprecated version: `\greremoveclef`

`\normalclef` *gregoriotex-signs.tex*

Macro to restore clefs to a score (undoes the effects of `\removeclef`).

Deprecated version: `\grenormalclef`

\removecusto *gregoriotex-signs.tex*

Macro to empty the box containing the custos.

\GreHidePCLines *gregoriotex-signs.tex*

Macro to tell gregoriotex to hide the lines through the middle of a punctum cavum. Default.

\GreDontHidePCLines *gregoriotex-signs.tex*

Macro to tell gregoriotex not to hide the lines through the middle of a punctum cavum.

\GreHideAltLines *gregoriotex-signs.tex*

Macro to tell gregoriotex to hide the lines behind alterations.

\GreDontHideAltLines *gregoriotex-signs.tex*

Macro to tell gregoriotex not to hide the lines behind alterations. Default.

\UseAlternatePunctumCavum *gregoriotex-signs.tex*

Changes settings to use the alternative punctum cavum.

\UseNormalPunctumCavum *gregoriotex-signs.tex*

Changes settings to use the normal punctum cavum. Default.

\englishcentering *gregoriotex-syllable.tex*

Changes settings to align syllables in the English style (center of syllable aligns with center of first glyph in neume). Will only affect scores which do not have "centering-scheme: english;" in their gabc header.

\defaultcentering *gregoriotex-syllable.tex*

Changes settings to align syllables in the Latin style (center of vowel aligns with center of first glyph in neume). Will only affect scores which do not have "centering-scheme: english;" in their gabc header. Default.

3 Gregoriotex Controls

These functions are the ones used by Gregoriotex internally as it process the commands listed above. They should not appear in any user document and are listed here for programmer documentation purposes only.

\gre@coloredlines#1   *gregoriotex.sty*

Changes the color of the staff lines to #1.

Arg	Value	Description
#1	string	Must be a named color defined using \definecolor.

\gre@redlines   *gregoriotex.sty*

Changes the color of the staff lines to `gregoriocolor`.

\gre@normallines   *gregoriotex.sty*

Resets the formatting of the staff lines.

\gre@error#1   *gregoriotex.tex*

Raises an error which is identified as coming from GregorioTeX. Uses LaTeX \PackageError or PlainTeX \errmessage as appropriate.

Arg	Value	Description
#1	string	Error message.

\gre@warn#1   *gregoriotex.tex*

Raises a warning which is identified as coming from GregorioTeX. Uses LaTeX \PackageWarning or PlainTeX \message as appropriate.

Arg	Value	Description
#1	string	Warning message.

\gre@localleftbox *gregoriotex.tex*

Alias for `\luatexlocalleftbox`. Used to make propagating changes in latex easier.

\gre@localrightbox *gregoriotex.tex*

Alias for `\luatexlocalrightbox`. Used to make propagating changes in latex easier.

\gre@unsetattribute *gregoriotex.tex*

Alias for `\unsetlutexattribute{\gregorioattr}`

\gregorioattr *gregoriotex.tex*

A luatex attribute we put on the text nodes.
If it is 1, it means that there may be a dash here if this syllable is at the end of a line.
If it is 2, it means that it's never useful to typeset a dash.
If it is 0, it just means that we are in a score.

\gregoriocenterattr *gregoriotex.tex*

A luatex attribute used for translation centering.

\gregoriotexversion#1 *gregoriotex.tex*

Defines the current version of GregorioTeX API.

Arg	Value	Description
#1	integer	Date in format: yyyymmdd

\gre@internalversion#1 *gregoriotex.tex*

The version of GregorioTeX.

Arg	Value	Description
#1	integer	Date in format: yyyymmdd

\gre@declarefileversion#1#2 *gregoriotex.tex*

Checks to see if GregorioTeX component #1 with version #2 is compatible with \gre@internalversion

Arg	Value	Description
#1	string	Name
#2	integer	Date in format yyyymmdd

\gre@factor *gregoriotex.tex*

Count representing the size of the staff. Initialized to 0, but changed to 17 by \begingregorianscore if user hasn't changed it.

\gre@stafflinewidth *gregoriotex.tex*

Dimension representing the width of a line of staff. Can vary, for example, at the first line.

\gre@linewidth *gregoriotex.tex*

Dimension representing the width of the score (including initial).

\gre@calculateconstantglyphraise *gregoriotex.tex*

Macro to caluclate \gre@constantglyphraise

\gre@constantglyphraise *gregoriotex.tex*

Dimension representing ??

\gre@currenttranslationheight *gregoriotex.tex*

Dimension representing the space for the translation beneath the text.

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`\gre@addtranslationspace` *gregoriotex.tex*

Macro to tell Gregorio to set space for the translation.

`\gre@removetranslationspace` *gregoriotex.tex*

Macro to tell Gregorio to remove the space allocated to the translation.

`\gre@kernbeforeeol` *gregoriotex.tex*

Macro describing a kern to make before ending the line, which we sometimes
want (see `\gresyllable`).

`\gre@newlinecommon#1#2#3#4#5` *gregoriotex.tex*

Macro we call each time we force a changing of line, it automatically sets
`\greknownline`, and adjusts left spaces.

Arg	Value	Description
#1	0	No note above staff.
	1	Note above 4th line (position k).
	2	Note on 5th line (position l).
	3	Note above 5th line (position m).
#2	0	No note below staff.
	1	Note below 1st line (position c).
	2	Note on 0th line (position b).
	3	Note below 0th line (position a).
	4	Note below 0th line (position a) with vertical episemus.
#3	0	No translation.
	1	Translation present.
#4	0	Justify line.
	1	Do not justify line.
#5	0	No extra space above staff.
	1	Extra space above staff.

`\gre@additionalbottomspace` *gregoriotex.tex*

Dimension representing extra space below the staff needed for low notes.

\gre@additionaltopspace *gregoriotex.tex*

Dimension representing extra space above the staff needed for high notes.

\gre@updateadditionalspaces#1#2 *gregoriotex.tex*

Macro which updates \gre@additionalbottomspace and
\gre@additionaltopspace

\gre@textlower *gregoriotex.tex*

Dimension representing the height of the separation between the 0th line
(which is invisible except for notes in the a or b position) and the bottom of
the text.

\gre@Tempwidth *gregoriotex.tex*

Box used to calculate \gre@tempwidth

\gre@tempwidth *gregoriotex.tex*

Dimension representing width of some element.

\gre@widthof#1 *gregoriotex.tex*

Macro which calculates \gre@tempwidth as width of #1.

\gre@textaligncenter *gregoriotex.tex*

Dimension representing the width from the beginning of the letters in a
syllable to the middle of the middle letters. Used for lining up neumes and
syllables.

\gre@findtextaligncenter#1#2#3 *gregoriotex.tex*

Macro for calculating \gre@textaligncenter.

Arg	Value	Description
#1	string	The first part of the syllable (any preceding consonants in Latin).
#2	string	The middle part of the syllable (the vowel in Latin).
#3	0	Calculation is being performed for the current syllable.
	1	Calculation is being performed for the next syllable.

\gre@additionalleftspace   *gregoriotex.tex*

Dimension representing the additional space that has to be added to the localleftbox for a big initial (one taking two lines).

\Gre@Initial   *gregoriotex.tex*

Box containing the initial.

\gre@initialwidth   *gregoriotex.tex*

Dimension representing the width of the initial (and the space after).

\gre@biginitial   *gregoriotex.tex*

Count indicating whether initial takes 2 lines: $0 =$ it doesn't; $1 =$ it does.

\gre@knowline   *gregoriotex.tex*

Line gregoriotex thinks is being set.

\gre@updateleftbox   *gregoriotex.tex*

Macro which adjusts size of line and clef placement after initial.

\gre@updatelinewidth   *gregoriotex.tex*

Macro which adjusts the width of the line.

\gre@initialformat#1   *gregoriotex.tex*

Macro which applies formatting in `initialformat` environment to initial.

Arg	Value	Description
#1	character	The initial letter.

`\gre@biginitialformat#1` *gregoriotex.tex*

Macro which applies formatting in `biginitialformat` environment to initial.

Arg	Value	Description
#1	character	The big initial letter.

`\Gre@Aboveinitialfirstbox` *gregoriotex.tex*

The box which contains the first (top) annotation above the initial.

`\gre@aboveinitialfirstraise` *gregoriotex.tex*

Dimension representing the space allocated to the first annotation.

`\Gre@Aboveinitialsecondbox` *gregoriotex.tex*

The box which contains the second (bottom) annotation above the initial.

`\gre@aboveinitialsecondraise` *gregoriotex.tex*

Dimension representing the space allocated to the second annotation.

`\gre@setaboveinitialrais` *gregoriotex.tex*

Macro to give `\gre@aboveinitialfirstraise` and
`\gre@aboveinitialsecondraise` their working values.

`\gre@currentabovelinestextheight` *gregoriotex.tex*

Dimension representing the space allocated above the lines for text.

`\gre@abovelinestextstyle#1` *gregoriotex.tex*

Macro to apply the above line text style to argument (#1, a character).

\gre@addspaceabove *gregoriotex.tex*

Macro to allocate space for text placed above the staff lines.

\gre@removespaceabove *gregoriotex.tex*

Macro to unallocate space for text above the staff lines.

\gre@currenttextabovelines#1 *gregoriotex.tex*

Macro containing the text (#1) which is currently being placed above the staff lines.

\gre@typsettextabovelines#1 *gregoriotex.tex*

Macro to typeset argument (#1, a string) above the staff lines.

\gre@removelinescount *gregoriotex.tex*

Boolean indicating whether staff lines should be printed. Has value 0 when lines are printed, 1 when they are not.

\gre@drawfirstlines *gregoriotex.tex*

Macro to draw the staff lines for the first line of the score (i.e. it accounts for the space taken up by the initial).

\Gre@Lines *gregoriotex.tex*

Box to contain the staff lines for lines other than the first line.

\gre@generatelines *gregoriotex.tex*

Macro to fill \Gre@Lines.

\gre@smallsecondline *gregoriotex.tex*

Macro called when the initial is big to make the second set of staff lines the same length as the first.

\gre@normallines *gregoriotex.tex*

Marco called after the second set of staff lines when the initial is big to go back to normal width lines.

\gre@translationcenteringscheme   *gregoriotex.tex*

Boolean to indicate the centering scheme used for the translation.
Possible values:
0=translation is left aligned with corresponding text.
1=translation is centered with the corresponding text.

\gre@nlbintranslation   *gregoriotex.tex*

Variable used to indicate whether line breaks are allowed in the translation.
Possible values: 0=line breaks are allowed; 1=line breaks are prohibited

\gre@translationformat#1   *gregoriotex.tex*

Macro to apply the translation format to string. (is this defined somewhere else too?)

\gre@mustdotranslationcenterend   *gregoriotex.tex*

Boolean to indicate if the translation is at the end of a line?
Possible values: 0=not at the end of a line; 1=at the end of a line

\gre@dotranslationcenterend   *gregoriotex.tex*

Macro to set things up for a translation at the end of a line.

\gre@printchirovbars   *gregoriotex.tex*

Count that is 1 or 0 if we need to print the small vertical bars in the chiro-nomic line.

\gre@nolastline   *gregoriotex.tex*

Macro to call when there is just a little thing that will go to the last line, when it is not necessary. It doesn't seem to be used, so it's a good candidate for deprecation!

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\gre@endofword#1   *gregoriotex.tex*

Macro called at the end of each word. Does extra stuff when argument (#1, an integer) is 1?

\gre@endbeforebar#1   *gregoriotex.tex*

Macro called at end of word when next element is a bar. Argument (#1, an integer) has same function as in \gre@endofword.

\gre@endafterbar#1   *gregoriotex.tex*

Macro called after a bar. Argument (#1, an integer) has same function as in \gre@endofword.

\gre@lastoflinecount   *gregoriotex.tex*

Count which marks the last syllable of the line.
Possible values: 0=nothing; 1=last syllable of line; 2=first syllable of line

\gre@disableeolshifts   *gregoriotex.tex*

Boolean which indicates that the syllable should be shifted left a bit.
Possible values: 0=shift happens; 1=shift doesn't happen.

\Gre@DisableEOLShifts   *gregoriotex.tex*

Macro to set \gre@disableeolshifts to 1.

\Gre@EnableEOLShifts   *gregoriotex.tex*

Macro to set \gre@disableeolshifts to 0.

\gre@blockcusto   *gregoriotex.tex*

Count to indicate if the custo should be blocked.
Possible values: 0=do not block custo; 1=block custo

\gre@endofsyllable   *gregoriotex.tex*

Macro called at the end of a syllable which does not end a word.

\gre@nlbstate   *gregoriotex.tex*

Count to indicate the no line break areas.
Possible values: 0 = not a no line break area; 1 = no line break due to translation centering; 2 = no line break due to <nlba> tag

\gregoriofontname   *gregoriotex.tex*

Macro which holds the default font name (greciliae).

\gre@usestylefont   *gregoriotex.tex*

Count to indicate if gregoriostylefont should be used.
Possible values: 0 = do not use; 1 = use

\gre@setstylefont   *gregoriotex.tex*

Macro to load greextra as gregoriostylefont at correct size.

\gre@normalstafflinesformat   *gregoriotex.tex*

Macro to apply formatting to the normal staff lines.

\gre@additionalstafflinesformat   *gregoriotex.tex*

Macro to apply formatting to the additional staff lines.

\gre@includetexscore#1   *gregoriotex.tex*

Macro to include scores in gtex format.

\gre@includegabcscore#1   *gregoriotex.tex*

Macro to include scores in gabc format.

\gre@usestylecommon   *gregoriotex-signs.tex*

Checks to see if gregoriostylefont has been loaded and loads it if it has not.

\gre@falsepenalty#1 *gregoriotex-signs.tex*

Does nothing.

\gre@truepenalty#1 *gregoriotex-signs.tex*

Alias for \penalty#1. Used in combination with \gre@falsepenalty to avoid placing \penalty where it isn't allowed.

\gre@hskip *gregoriotex-signs.tex*

Alias for \hskip outside of discretionaries and \kern inside of them.

\gre@penalty#1 *gregoriotex-signs.tex*

Alias for \gre@truepenalty outside of discretionaries and \gre@falsepenalty inside of them.

\gre@insidediscretionary *gregoriotex-signs.tex*

Count for tracking whether we are in a discretionary (1) or not (0).

\gre@discretionary#1#2 *gregoriotex-signs.tex*

Sets \gre@hskip, \gre@penalty, \gre@insidediscretionary
to their within discretionary values and then calls \discretionary#1#2#3.
#2 (a string) is a non-printing string which sets \gre@lastoflinecount to 2.
After resolving the \discretionary command \gre@hskip, \gre@penalty,
and
\gre@insidediscretionary are restored to their outside values.

\gre@removeclefcount *gregoriotex-signs.tex*

Count for indicating if the clef should be printed (1) or not (0).

\gre@clefnum *gregoriotex-signs.tex*

Count indicated the clef line and pitch: 1- c on bottom line, 2 - c on second

line, 3 - c on third line, 4 - c on top line, 5 - f on bottom line, 6 - f on second line, 7 - f on third line, 8 - f on top line.

`\gre@clefwidth` *gregoriotex-signs.tex*

Width of the clef.

`\gre@setlinesclef#1#2#3#4` *gregoriotex-signs.tex*

Macro to define the clef that will appear at the beginning of the lines.

Arg	Value	Description
#1	character	Type of clef (c or f).
#2	character	Height of clef (using gabc height letters).
#3	0	Do not add a space after the clef.
	1	Add a space after the clef.
#4	character	Height of flat after clef (using gabc height letters, a = no flat).

`\gre@calculateclefnum#1#2#3` *gregoriotex-signs.tex*

Macro to calculate the clef number and store it in `\gre@clefnum`.

Arg	Value	Description
#1	character	Type of clef (c or f).
#2	1-4	Line on which the clef appears.
#3	character	Height of flat after clef (using gabc height letters, a = no flat).

`\gre@updatelinesclef` *gregoriotex-signs.tex*

Macro redrawing a key from `\gre@clefnum`. Useful for vertical space changes.

`\gre@typekey#1#2#3#4#5` *gregoriotex-signs.tex*

Macro for typesetting the key signature.

Arg	Value	Description
#1	character	Type of clef (c or f).
#2	1-4	Line of the key.
#3	0	Do not use small key characters.
	1	Use small key characters.
#4	0	Do not print a space after the key.
	1	Print a space after the key.
#5	character	Height of flat after clef (using gabc height letters, a = no flat).

\gre@inchangeclef#1#2#3   *gregoriotex-signs.tex*

Macro for changing key inside a syllable.

Arg	Value	Description
#1	character	Type of clef (c or f).
#2	1-4	Line on which the clef appears.
#3	character	Height of flat after clef (using gabc height letters, a = no flat).

\gre@setcusto#1   *gregoriotex-signs.tex*

Macro for typesetting custos.

Arg	Value	Description
#1	character	Height of custos.

\gre@additionaltopcusotolineend   *gregoriotex-signs.tex*

Macro for typesetting the line behind a high custos at end of line.

\gre@additionalbottomcusotlineend   *gregoriotex-signs.tex*

Macro for typesetting the line behind a low custos at end of line.

\gre@additionaltopcusotolinemiddle   *gregoriotex-signs.tex*

Macro for typesetting the line behind a high custos in middle of line.

\gre@additionalbottomcusotlinemiddle *gregoriotex-signs.tex*

Macro for typesetting the line behind a low custos in middle of line.

\gre@custocahar#1 *gregoriotex-signs.tex*

Selects the appropriate custos character.

Arg	Value	Description
#1	character	Height of the custos.

\gre@curlybracechar *gregoriotex-signs.tex*

Macro for the char '{' (which is rotated 90 and placed over the notes)

\gre@bracechar *gregoriotex-signs.tex*

Macro for the char '(' (which is rotated 90 and placed over the notes)

\gre@resizebox *gregoriotex-signs.tex*

Local alias for **\resizebox** (currently borrowed from graphics)

\gre@lowchoralsignstyle#1 *gregoriotex.sty and tex-signs.tex*

Applies the formatting to the low choral signs specified by the appropriate (pseudo-)environment.

\gre@highchoralsignstyle#1 *gregoriotex.sty and tex-signs.tex*

Applies the formatting to the high choral signs specified by the appropriate (pseudo-)environment.

\Gre@Tempsign *gregoriotex-signs.tex*

Box for temporarily holding a sign needed for calculations.

\gre@tempdimsignwidth *gregoriotex-signs.tex*

Temporary dimension used to calculate placement of signs.

`\gre@vepisemusorrareaux#1#2#3#4#5#6#7` *gregoriotex-signs.tex*

Macro help with typesetting of episemus.

Arg	Value	Description
#1	character	A preceding symbol needed for calculating position of episemus.
#2	character	Another preceding symbol.
#3	0	Go back to beginning of glyph.
	1	Go back width of #2.
	2	Do back width of #1 and forward width of #2.
	3	Go to beginning of glyph, forward by width of #1 and back width of #2.
#4	integer	An additional shift in space to apply to the episemus.
#5	1	Use ictus arsicus.
	2	Use ictus theticus.
#6	1	Set a vertical episemus.
	2	Set a rare sign.
	3	Set a choral sign above the bar.
#7	integer	If #6 = 3 then the choral sign.

`\gre@vepisemusorrare#1#2#3#4#5` *gregoriotex-signs.tex*

Macro for typesetting vertical episemus or rare accent.

Arg	Value	Description
#1	character	Height of episemus.
#2	integer	Type of glyph the episemus is attached to. See Episemus Special argument for description of options.
#3	integer	Glyph number of glyph being typeset.
#4	1	Set a vertical episemus.
	2	Set a rare sign.
	3	Set a choral sign above the bar.
#5	string	If #4 = 3 then the choral sign.

`\grewriteaux#1` *gregoriotex.tex*

Macro for writing to the aux file.

Arg	Value	Description
#1	string	What is written to the aux file.

\opengreaux *gregoriotex.tex*

Macro for opening the aux file.

\closegreaux *gregoriotex.tex*

Macro for closing the aux file.

\gre@ictus#1 *gregoriotex-signs.tex*

Macro for writing the position of an ictus to the aux file.

Arg	Value	Description
#1	1	Ictus type a was typeset.
	2	Ictus type t was typeset.

\gre@hepisorlineaux#1#2#3#4 *gregoriotex-signs.tex*

Macro for helping to typeset a horizontal episemus and additional line.

Arg	Value	Description
#1	character	A glyph having the same width as the width between the end of the glyph and the beginning of the episemus.
#2	integer	Glyph number of the episemus.
#3	0	Go to beginning of glyph.
	int !0	Do not go to beginning of glyph.
#4	0	Set horizontal episemus.
	1	Set horizontal episemus under a note.
	2	Set line at top of staff.
	3	Set line at bottom of staff.
	4	Set choral sign.

\gre@hepisorline#1#2#3#4 *gregoriotex-signs.tex*

Macro for typesetting a horizontal line (additional line or episemus).

Arg	Value	Description
#1	character	Height of the episemus.
#2	special	See Episemus Special.
#3	integer	The ambitus of the porrectus or porrectus flexes if the second argument is 9, 10, 11, 21, 22, 23; ignored otherwise.
#4	0	Set horizontal episemus.
	1	Set horizontal episemus under a note.
	2	Set line at top of staff.
	3	Set line at bottom of staff.
	4	Set choral sign.

\gre@AddHEpisemusBridges *gregoriotex-signs.tex*

Macro to activate bridging horizontal episemus.

\gre@RemoveHEpisemusBridges *gregoriotex-signs.tex*

Macro to suspend bridging horizontal episemus.

\gre@writebar#1#2#3 *gregoriotex-signs.tex*

Macro to typeset a bar line.

Arg	Value	Description
#1	0	Virgula bar line.
	1	Minima bar line.
	2	Minor bar line.
	3	Maior bar line.
	4	Finalis bar line.
	5	Last finalis bar line.
	6	Dominican bar 1.
	7	Dominican bar 2.
	8	Dominican bar 3.
	9	Dominican bar 4.
	10	Dominican bar 5.
	11	Dominican bar 6.
#2	0	The bar does not appear within a syllable.
	1	The bar appears within a syllable.
#3	code	Macros which may happen before the skip but after the bar (typically `\grevepisemus`).

gre@tempdimtwo *gregoriotex-signs.tex*

A temporary dimension used in calculations.

\gre@divisiomaiorsymbol *gregoriotex-signs.tex*

Macro defining the divisio maior symbol.

\gre@divisiofinalissymbol *gregoriotex-signs.tex*

Macro defining the divisio finalis symbol.

\keeprightbox *gregoriotex-signs.tex*

A count to tell if we have to keep the localrightbox until the end.

\gre@hidepclines *gregoriotex-signs.tex*

An integer indicating whether the lines behind a punctum cavum are hidden (1) or not (0).

\gre@hidealtlines *gregoriotex-signs.tex*

An integer indicating whether the lines behind an alteration are hidden (1) or not (0).

\gre@fillhole#1 *gregoriotex-signs.tex*

Character to fill a hole in a character with the color grebackgroundcolor.

Arg	Value	Description
#1	character	The shape of the hole.

\gre@firstisalteration *gregoriotex-signs.tex*

Count to track if the first glyph is an alteration (1) or not (0).

\gre@alteration#1#2#3#4 *gregoriotex-signs.tex*

Macro to typeset an alteration (sharp, flat, or natural).

Arg	Value	Description
#1	character	The height of the alteration.
#2	character	The alteration itself.
#3	character	The character of the hole for the alteration.
#4	0	No flat for a key change.
	1	Indicates a flat for a key change.

\gre@englishcentering *gregoriotex-syllable.tex*

Count to track if we are using english centering scheme (1), or not (0).

4 Special arguments

These arguments are used by multiple functions and take a lot of space to describe so we describe them once here and refer to this section rather than have multiple definitions.

4.1 Episemus Special

	Integer with the following possibilities:
0	Last note, which is a standard punctum (works with pes).
1	Same, but the last note is a deminutus.
2	The note before the last note, which is a standard punctum.
3	Idem, but the note is the note preceding a deminutus.
4	The note before the note before the last note (for porrectus flexus).
5	Idem, but when the two last notes are a deminutus.
6	The first note, if it is a standard punctum.
7	The first note, if it is an initio debilis.
8	The first note, if it is a porrectus.
The three next arguments make no sense for a vepisemus	
9	The two first notes, if it is a porrectus.
10	The two first notes, if it is a porrectus flexus.
11	The notes two and three of a torculus resupinus.
12	The last note, if it is a punctum inclinatum.
13	Idem, if it is a punctum inclinatum deminutus.
14	Idem, if it is a stropha.
15	Idem, with a quilisma.
16	Idem, with an oriscus.
17	Same of 2 but for ambitus of one.
18	Same of 0, but the last note is a smaller punctum (concerning simple podatus, podatus, and torculus resupinus).
19	The first note, if it is an oriscus.
20	The first note, if it is a quilisma.
21	The second note of a torculus resupinus with first ambitus of at least two.
22	Idem with ambitus of one.
23	Idem with initio debilis.
24	The last note, if it is a linea punctum (or linea punctum cavum).
25	The last note, if it is a bar.
26	The last note, if it is a virgula.
27	The last note, if it is a divisio finalis.

5 Gregorio Controls

These functions are the ones written by Gregorio to the gtex file. While one could, in theory, use/change them to alter the appearance of elements of the score, it is far better to make your changes in the gabc file and let Gregorio make the changes to the gtex file.

\begingregorioscore *gregoriotex.tex*

Macro to start a score.

\endgregorioscore *gregoriotex.tex*

Macro to end a score.

\greaccentus#1#2 *gregoriotex-signs.tex*

Macro for typesetting an accentus.

Arg	Value	Description
#1	character	height of episemus
#2	integer	Type of glyph the episemus is attached to. See Episemus Special argument for description of options.

\greacticeatechironomy *gregoriotex.tex*

Macro called at the beginning of the score to enable chironomy.

\greadditionalline#1#2#3 *gregoriotex-signs.tex*

Macro to typeset the additional line above or below the staff.

Arg	Value	Description
#1	special	See Episemus Special.
#2	integer	The ambitus of the porrectus or porrectus flexes if the first argument is 9, 10, 11, 21, 22, 23; ignored otherwise.
#3	integer	Set horizontal episemus (0), horizontal episemus under a note (1), line at top of staff (2), line at bottom of staff (3), choral sign (4).

`\greadjustsecondline` *gregoriotex.tex*

Macro to call before first syllable, but after `\gresetinitialclef`.

`\greadjustthirdline` *gregoriotex.tex*

`\greadjustthirdline`Macro to call during the second line.

`\greaugmentumduplex#1#2#3` *gregoriotex-signs.tex*

Macro for typesetting an augmentum duplex (a pair of punctum mora)

Arg	Value	Description
#1	character	Height for first punctum mora.
#2	character	Height for second punctum mora.
#3	integer	First punctum mora occurs before last note of a podatus, prorectus, or toculus resupinus (1), or not (0).

`\grebarbrace#1` *gregoriotex-signs.tex*

Macro for typesetting a bar brace.

Arg	Value	Description
#1	integer	Type of glyph the episemus is attached to. See Episemus Special argument for description of options.

`\grebarsyllable` *gregoriotex-syllable.tex*

`\grebarvepisemus#1` *gregoriotex-signs.tex*

Macro to typeset a vertical episemus around a bar.

Arg	Value	Description
#1	integer	Type of glyph the episemus is attached to. See Episemus Special argument for description of options.

`\grebarvepisemusictusa#1` *gregoriotex-signs.tex*

Macro to typeset a vertical episemus and ictus (type a) around a bar.

Arg	Value	Description
#1	integer	Type of glyph the episemus is attached to. See Episemus Special argument for description of options.

\grebarvepisemusictust#1   *gregoriotex-signs.tex*

Macro to typeset a vertical episemus and ictus (type t) around a bar.

Arg	Value	Description
#1	integer	Type of glyph the episemus is attached to. See Episemus Special argument for description of options.

\grebeginnlbarea#1#2   *gregoriotex.tex*

Macro called at beginning of a no line break area.

Arg	Value	Description
#1	0	Not in the neumes.
	1	In the neumes.
#2	0	Call didn't come from translation centering.
	1	Call came from translation centering.

\grebeginnotes   *gregoriotex.tex*

Macro to draw the staff lines. Comes after the initial but before the clef.

\greboldfont#1   *gregoriotex.sty*

Makes argument bold. Accesses LaTeX \textbf or PlainTeX \bf as appropriate. Corresponds to "" tags in gabc.

Arg	Value	Description
#1	string	Text to be typeset in bold.

\grechangeclef#1#2#3#4   *gregoriotex-signs.tex*

Macro called when key changes

Arg	Value	Description
#1	character	Type of new clef (c or f).
#2	integer	Line of new clef.
#3	0	Print space before clef.
	1	Do not print space before clef.
#4	character	Height of flat in key ('a' for no flat).

\grecirculus#1#2 *gregoriotex-signs.tex*

Macro for typesetting a circulus.

Arg	Value	Description
#1	character	Height of circulus.
#2	integer	Type of glyph the circulus is attached to. See Episemus Special argument for description of options.

\grecolored#1 *gregoriotex.sty*

Colors argument (a string) in `gregoriocolor`. Corresponds to "<c></c>" tags in gabc. Does nothing in PlainTEX

\grecusto#1 *gregoriotex-signs.tex*

Typesets a custo.

Arg	Value	Description
#1	character	Height of custo.

\gredagger *gregoriotex-symbols.tex*

Macro to typeset a dagger (†).

\grediscretionary

\gredivisionfinalis#1 *gregoriotex-signs.tex*

Macro to typeset a divisio finalis.

Arg	Value	Description
#1	code	Macros which may happen before the skip but after the divisio finalis (typically `\grevepisemus`).

`\gredivisionmaior#1` *gregoriotex-signs.tex*

Macro to typeset a divisio maior.

Arg	Value	Description
#1	code	Macros which may happen before the skip but after the divisio maior (typically `\grevepisemus`).

`\gredivisionminima#1` *gregoriotex-signs.tex*

\gredivisiominima#1Macro to typeset a divisio minima.

Arg	Value	Description
#1	code	Macros which may happen before the skip but after the divisio minima (typically `\grevepisemus`).

`\gredivisiominor#1` *gregoriotex-signs.tex*

\gredivisiominor#1Macro to typeset a divisio minor.

Arg	Value	Description
#1	code	Macros which may happen before the skip but after the divisio minor (typically `\grevepisemus`).

`\gredominica#1#2` *gregoriotex-signs.tex*

Macro to typeset a dominican bar.

Arg	Value	Description
#1	integer	Type of dominican bar. 6–11 corresponds to types 1–6.
#2	code	Macros which may happen before the skip but after the divisio minor (typically `\grevepisemus`).

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`\greendnlbarea#1#2` *gregoriotex.tex*

Macro called at beginning of a no line break area.

Arg	Value	Description
#1	0	Not in the neumes.
	1	In the neumes.
#2	0	Call didn't come from translation centering.
	1	Call came from translation centering.

`\greendofelement#1#2` *gregoriotex.tex*

Macro to end elements.

Arg	Value	Description
#1	0	Default space.
	1	Larger space.
	2	Glyph space.
	3	Zero-width space.
#2	0	Space is breakable.
	1	Space is unbreakable.

`\greendofglyph#1` *gregoriotex.tex*

Macro to end a glyph without ending the element.

Arg	Value	Description
#1	0	Default space.
	1	Zero-width space.
	2	Space between flat or natural and a note.
	3	Space between two puncta inclinata.
	4	Space between bivirga or trivirga.
	5	space between bistropha or tristropha.
	6	Space after a punctum mora XXX: not used yet, not so sure it is a good idea. . .
	7	Space between a punctum inclinatum and a punctum inclinatum debilis.
	8	Space between two puncta inclinata debilis.
	9	Space before a punctum (or something else) and a punctum inclinatum.
	10	Space between puncta inclinata (also debilis for now), larger ambitus (range=3rd).
	11	Space between puncta inclinata (also debilis for now), larger ambitus (range=4th or more).

\grefinaldivisionfinalis#1   *gregoriotex-signs.tex*

Macro to end a line with a divisio finalis.

Arg	Value	Description
#1	0	Something does not need to be placed after the divisio finalis.
	1	Something needs to be placed after the divisio finalis.

\grefinaldivisiomaior#1   *gregoriotex-signs.tex*

Macro to end a line with a divisio maior.

Arg	Value	Description
#1	0	Something does not need to be placed after the divisio maior.
	1	Something needs to be placed after the divisio maior.

\grefirstlinebottomspace#1#2   *gregoriotex.tex*

Macro for additional bottom space for the first line

Arg	Value	Description
#1	0	No note below staff.
	1	Note below 1st line (position c).
	2	Note on 0th line (position b).
	3	Note below 0th line (position a).
	4	Note below 0th line (position a) with vertical episemus.
#2	0	No translation in score.
	1	Translation present in score.

\greflat#1#2 *gregoriotex-signs.tex*

Macro to typeset a flat.

Arg	Value	Description
#1	character	Height of the flat.
#2	0	No a flat for a key change.
	1	Indicates the a flat for a key change.

\greglyph *gregoriotex-syllable.tex*

\gregorianmode#1 *gregoriotex.tex*

If the gabc file contains a mode in the header, then this function places said mode as the first (top) annotation. This function effectively disables \setfirstlineaboveinitial.

Arg	Value	Description
#1	1-8	Other values are ignored (and \setfirstlineaboveinitial should still work).

Bug: This macro needs to appear before \greinitial in the gtex file but gregoriotex-write.c places it after.

\greorioapiversion#1 *gregoriotex.tex*

Checks to see if GregorioTeX API is version specified by argument (and therefore compatible with the score.

Arg	Value	Description
#1	string	Date in format: yyyymmdd.

\grehepisemus#1#2#3#4   *gregoriotex-signs.tex*

Macro to typeset a episemus.

Arg	Value	Description
#1	character	Height of the episemus.
#2	special	See Episemus Special.
#3	integer	The ambitus of the porrectus or porrectus flexes if the second argument is 9, 10, 11, 21, 22, 23; ignored otherwise..
#4	character	Replacement for #1 if a bridge causes a height substitution.

\grehepisemusbottom#1#2#3   *gregoriotex-signs.tex*

Macro to typeset a episemus at the bottom of a note

Arg	Value	Description
#1	character	Height of the episemus.
#2	special	See Episemus Special.
#3	integer	The ambitus of the porrectus or porrectus flexes if the second argument is 9, 10, 11, 21, 22, 23; ignored otherwise.

\grehepisemusbridge#1#2#3   *gregoriotex-signs.tex*

Macro to typeset a bridge episemus father the last note of a glyph (element, syllable) if the next episemus is at the same height.

Arg	Value	Description
#1	character	Height of the episemus.
#2	special	See Episemus Special.
#3	integer	The ambitus of the porrectus or porrectus flexes if the second argument is 9, 10, 11, 21, 22, 23; ignored otherwise.

\grehighchoralsigh#1#2#3 *gregoriotex-signs.tex*

Macro for typesetting high choral signs.

Arg	Value	Description
#1	character	Height of the sigh.
#2	string	The choral sign.
#3	0	Choral sign does not occur before last note of podatus, porrectus, or torculus resupinus.
	1	Choral sign occurs before last note of podatus, porrectus, or torculus resupinus.

\grehyph *gregoriotex.tex*

Macro used for end of line hyphens. Defaults to **\grenormalhyph**.

\greictusa#1 *gregoriotex-signs.tex*

Macro for typesetting an ictus (type a)

Arg	Value	Description
#1	integer	Type of glyph the ictus is attached to. See Episemus Special argument for description of options.

\greictust#1 *gregoriotex-signs.tex*

Macro for typesetting an ictus (type t)

Arg	Value	Description
#1	integer	Type of glyph the ictus is attached to. See Episemus Special argument for description of options.

\grein

\gredivisiofinalis#1   *gregoriotex-signs.tex*

Macro to typeset a divisio finalis inside a syllable.

Arg	Value	Description
#1	code	Macros which may happen before the skip but after the divisio finalis (typically **\grevepisemus**).

\greindivisiomaior#1   *gregoriotex-signs.tex*

Macro to typeset a divisio maior inside a syllable.

Arg	Value	Description
#1	code	Macros which may happen before the skip but after the divisio maior (typically **\grevepisemus**).

\greindivisiominima#1   *gregoriotex-signs.tex*

Macro to typeset a divisio minima inside a syllable.

Arg	Value	Description
#1	code	Macros which may happen before the skip but after the divisio minima (typically **\grevepisemus**).

\greindiviciominor#1   *gregoriotex-signs.tex*

Macro to typeset a divisio minor inside a syllable.

Arg	Value	Description
#1	code	Macros which may happen before the skip but after the divisio minor (typically **\grevepisemus**).

\greindominica#1#2   *gregoriotex-signs.tex*

Macro to typeset a dominican bar inside a syllable.

Arg	Value	Description
#1	integer	Type of dominican bar. 6–11 corresponds to types 1–6.
#2	code	Macros which may happen before the skip but after the divisio minor (typically `\grevepisemus`).

`\greinitial#1` *gregoriotex.tex*

Macro to set the initial in the score.

Arg	Value	Description
#1	character	The initial letter of the score.

`\greinsertchiroline` *gregoriotex.tex*

Macro called at the beginning of a line to insert the chironomic signs.

`\greinvirgula#1` *gregoriotex-signs.tex*

Macro to typeset a virgula inside a syllable.

Arg	Value	Description
#1	code	Macros which may happen before the skip but after the virgula (typically `\grevepisemus`).

`\greitalic#1` *gregoriotex.sty*

Makes argument (a string) italic. Accesses LATEX `\textit` or PlainTEX `\it` as appropriate. Corresponds to "<i></i>" tags in gabc.

Arg	Value	Description
#1	string	Text to be typeset in italic font.

`\grelastofline` *gregoriotex.tex*

Macro to set `\gre@lastoflinecount` to 1 (i.e. mark that this syllable is the last of the line).

\grelastofscore *gregoriotex.tex*

Macro to mark the syllable as the last of the score.

\grelinea#1#2#3 *gregoriotex-signs.tex*

Macro for typesetting a linea.

Arg	Value	Description
#1	length	Argument #2 from greglyph. Height to raise the glyph.
#2	length	Argument #3 from greglyph. Height of the next note.
#3	integer	Argument #4 from greglyph. The type of glyph.

\grelineapunctumcavum *gregoriotex-signs.tex*

Macro to typeset a linea punctum cavum.

Arg	Value	Description
#1	length	Argument #2 from greglyph. Height to raise the glyph.
#2	length	Argument #3 from greglyph. Height of the next note.
#3	integer	Argument #4 from greglyph. The type of glyph.
#4	code	Macros executed before the punctum cavum is written.
#5	character	Argument #5 from greglyph. The signs to typeset before the glyph..

\grelowchoralsigh#1#2#3 *gregoriotex-signs.tex*

Macro for typesetting low choral signs.

Arg	Value	Description
#1	character	Height of the sign.
#2	string	The choral sign.
#3	0	Choral sign does not occur before last note of podatus, porrectus, or torculus resupinus.
	1	Choral sign occurs before last note of podatus, porrectus, or torculus resupinus.

\grenatural#1#2 *gregoriotex-signs.tex*

Macro to typeset a natural.

Arg	Value	Description
#1	character	Height of the flat.
#2	0	No a flat for a key change.
	1	Indicates the a flat for a key change.

\grenewline *gregoriotex.tex*

Macro to call if you want to go to the next line simply.

\grenewlinewithspace#1#2#3#4 *gregoriotex.tex*

Macro called to go to the next line but when there are additional vertical spaces to add

Arg	Value	Description
#1	0	No note above staff.
	1	Note above 4th line (position k).
	2	Note on 5th line (position l).
	3	Note above 5th line (position m).
#2	0	No note below staff.
	1	Note below 1st line (position c).
	2	note on 0th line (position b).
	3	Note below 0th line (position a).
	4	note below 0th line (position a) with vertical episemus.
#3	0	No translation.
	1	Translation present.
#4	0	No extra space above staff.
	1	Extra space above staff.

\grenewparline *gregoriotex.tex*

Same as \grenewline except line is not justified.

\grenewparlinewithspace#1#2#3#4 *gregoriotex.tex*

Same as \grenewlinewithspace except line is not justified.

\grenormalhyph *gregoriotex.tex*

Macro to typeset a normal hyphen.

\grenoinitial *gregoriotex.tex*

Macro called when no initial is being set.

\grenormalinitial *gregoriotex.tex*

Macro to cancel a 2-line initial.

\greoverbrace#1#2#3#4 *gregoriotex-signs.tex*

Macro to typeset the curved brace over notes.

Arg	Value	Description
#1	dimension	The width.
#2	dimension	The vertical shift.
#3	dimension	The horizontal shift.
#4	0	Do not shift to the beginning of the last glyph.
	1	Shift to the beginning of the last glyph.

\greovercurlybrace#1#2#3#4#5 *gregoriotex-signs.tex*

Macro to typeset the curly brace over notes.

Arg	Value	Description
#1	dimension	The width.
#2	0	Do not put accent above.
	1	Put an accent above.
#3	dimension	The vertical shift.
#4	dimension	The horizontal shift.
$5	0	Do not shift to the beginning of the last glyph.
	1	Shift to the beginning of the last glyph.

\grepunctumcavum#1#2#3#4#5 *gregoriotex-signs.tex*

Macro to typeset a punctum cavum.

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Arg	Value	Description
#1	length	Argument #2 from greglyph. Height to raise the glyph.
#2	length	Argument #3 from greglyph. Height of the next note.
#3	integer	Argument #4 from greglyph. The type of glyph.
#4	code	Macros executed before the punctum cavum is written.
#5	character	Argument #5 from greglyph. The signs to typeset before the glyph..

\grepunctummora#1#2#3#4   *gregoriotex-signs.tex*

Macro for typesetting punctum mora.

Arg	Value	Description
#1	character	Height of punctum mora.
#2	1	Go back to end of punctum.
	2	Shift left width of 1 punctum.
	3	Shift left width of 1 punctum and ambitus of 1.
#3	0	Punctum mora does not occur before last note of podatus, porrectus, or torculus resupinus.
	1	Punctum mora occurs before last note of podatus, porrectus, or torculus resupinus.
#4	0	No punctum inclinatum.
	1	Punctum inclinatum.

\grereversedoccentus#1#2   *gregoriotex-signs.tex*

Macro for typesetting a reversed accentus.

Arg	Value	Description
#1	character	Height of accentus.
#2	integer	Type of glyph the accentus is attached to. See Episemus Special argument for description of options.

\grereversedsemicirculus#1#2   *gregoriotex-signs.tex*

Macro for typesetting a reversed semicirculus.

Arg	Value	Description
#1	character	Height of semicirculus.
#2	integer	Type of glyph the semicirculus is attached to. See Episemus Special argument for description of options.

\grescorereference *gregoriotex.tex*

Currently does nothing.

\gresemicirclus#1#2 *gregoriotex-signs.tex*

Macro for typesetting a semicirculus.

Arg	Value	Description
#1	character	Height of semicirculus.
#2	integer	Type of glyph the semicirculus is attached to. See Episemus Special argument for description of options.

\gresetbiginitial *gregoriotex.tex*

Macro which indicates that a 2-line initial is desired.

\gresetfixednexttextformat *gregoriotex-syllable.tex*

\gresetfixedtexformat *gregoriotex-syllable.tex*

\gresetinitialclef#1#2#3 *gregoriotex-signs.tex*

Macro for writing initial key.

Arg	Value	Description
#1	character	Type of clef (c or f).
#2	1-4	Line of key.
#3	character	Height of flat in key ('a' for no flat).

\gresetlinesclef *gregoriotex.tex*

\gresettextabovelines#1   *gregoriotex.tex*

Macro to place argument above the lines and empty
`\gre@currenttextabovelines` when done.

Arg	Value	Description
#1	string	Text to be placed above the lines.

\gresharp#1#2   *gregoriotex-signs.tex*

Macro to typeset a sharp.

Arg	Value	Description
#1	character	Height of the flat.
#2	0	No a flat for a key change.
	1	Indicates the a flat for a key change.

\gresmallcaps#1   *gregoriotex.sty*

Makes argument small capitals. Accesses LATEX `\textsc` or PlainTEX `\sc` as
appropriate Corresponds to "<sc></sc>" tags in gabc.

Arg	Value	Description
#1	string	Text to be typeset in small caps font.

\grestar   *gregoriotex-symbol.tex*

Macro to typeset an asterisk (*).

\gresyllable   *gregoriotex-syllable.tex*

\gretilde   *gregoriotex.tex*

Macro to print ∼.

\gretranslationcenterend   *gregoriotex.tex*

Macro to set `\gre@mustdotranslationcenerend` to 1.

\grett#1 *gregoriotex.sty*

Makes argument typewriter font. Accesses LaTeX `\texttt` or PlainTeX `\tt`
as appropriate.

Arg	Value	Description
#1	string	Text to typeset in tt font.

\greul#1 *gregoriotex.sty*

Makes argument underlined under LaTeX using `\underline`. Does nothing
in PlainTeX.

Arg	Value	Description
#1	string	Text to typeset underlined.

\grevepisemus#1#2 *gregoriotex-signs.tex*

Macro for typesetting the vertical episemus.

Arg	Value	Description
#1	character	Height of episemus.
#2	integer	Type of glyph the episemus is attached to. See Episemus Special argument for description of options.

\grevepisemusictusa#1#2 *gregoriotex-signs.tex*

Macro for typesetting the vertical episemus and ictus (type a) on the same
glyph.

Arg	Value	Description
#1	character	Height of episemus.
#2	integer	Type of glyph the episemus and ictus are attached to. See Episemus Special argument for description of options.

\grevepisemusictust#1#2 *gregoriotex-signs.tex*

Macro for typesetting the vertical episemus and ictus (type t) on the same glyph.

Arg	Value	Description
#1	character	Height of episemus.
#2	integer	Type of glyph the episemus and ictus are attached to. See Episemus Special argument for description of options.

\grevirgula#1   *gregoriotex-signs.tex*

Macro to typeset a virgula.

Arg	Value	Description
#1	code	Macros which may happen before the skip but after the virgula (typically \grevepisemus).

\grewritetranslation#1   *gregoriotex.tex*

Macro to typeset argument in the translation position.

Arg	Value	Description
#1	string	Text to typeset in the translation.

\grewritetranslationwithcenterbeginning#1   *gregoriotex.tex*

Macro to typeset argument (a string) in the translation position (at the beginning of a line?).

Arg	Value	Description
#1	string	Text to typeset in the translation (at the beginning of a line).

\grezerhyph   *gregoriotex.tex*

Macro to typeset a zero-width hyphen (the hyphen is visible, it is treated

as if it had 0 width though. Used for fine tuning spacing (especially at line endings).

\setgregoriofont#1 *gregoriotex.tex*

Macro to set the font used for the glyphs.

Arg	Value	Description
#1	string	gregorio; parmesan; greciliae; gregoria