Abstract

The mathinner package modifies two aspects of \TeX’s automatic interatom mathematics spacing. The package uses Lua\TeX’s \Umath primitives to make superscripts and subscripts more closely resemble \textstyle and \displaystyle math and to treat \mathinner subformulas as \mathord, effectively eliminating this class. Users must load innerscript with the Lua\TeX engine.

Keywords: superscript, subscript, spacing, mathinner, scriptstyle, scriptscriptstyle, Lua\TeX, Umath, atom

For several years now, I wondered whether it was possible to change two features of \TeX’s mathematics spacing routine, namely the lack of automatic spacing in subscripts and superscripts and the extra space around \mathinner subformulas. For example, compare

\begin{align*}
s\sum_{i=1}^{n} x_i^{1+a} &= f(x) = g\left(\frac{1}{x}\right) \\
\sum_{i=1}^{n} x_i^{1+a} &= f(x) = g\left(\frac{1}{x}\right).
\end{align*}

Equation (1) uses traditional \TeX spacing, and equation (2) incorporates small adjustments. On the left, the subscript under the summation symbol and the superscript of $x_i$ contain small amounts of extra space around the = and + signs respectively, and on the right, the $g$ is directly next to the parenthesis instead of being an extra \thinmuskip away. In traditional \TeX, automating these changes would be impossible to do easily, but Lua\TeX’s extra math-mode primitives provide direct access to the interatom space parameters.¹ The innerscript package is my attempt to automate the changes in equation (2) using \Umath spacing commands, and as far as I am aware, it is the first package to do so. (Although please let me know if this is incorrect!) It provides no user-level commands and alters spacing automatically. This file explains how to load the package and documents the internal code.

Users can load innerscript with the standard

\texttt{\usepackage(⟨options⟩){innerscript}}

syntax. The package must be loaded with Lua\TeX, and if it detects a different engine, in-

¹See section 7.5 of the Lua\TeX manual.
Table 1: Package Options for innerscript

<table>
<thead>
<tr>
<th>Package Option</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>script</td>
<td>Changes to \scriptstyle and \crampedscriptstyle spacing</td>
</tr>
<tr>
<td>scriptscript</td>
<td>Changes to \scriptscriptstyle and \crampedscriptscriptstyle spacing</td>
</tr>
<tr>
<td>inner</td>
<td>Treat \mathinner subformulas as \mathord</td>
</tr>
<tr>
<td>no-script</td>
<td>No changes to \scriptstyle and \crampedscriptstyle spacing</td>
</tr>
<tr>
<td>no-scriptscript</td>
<td>No changes to \scriptscriptstyle and \crampedscriptscriptstyle spacing</td>
</tr>
<tr>
<td>no-inner</td>
<td>No changes to treatment of \mathinner subformulas</td>
</tr>
</tbody>
</table>

innerscript will issue an error.² It is possible to continue compiling past the error with no other issues, but if you do, innerscript will not be able to change any math spacing in your document. Table 1 shows the six package options, and by default innerscript selects the first three. The script and scriptscript options will affect spacing of symbols in superscripts and subscripts, and the inner option will eliminate extra spacing for \mathinner subformulas, such as fractions and \left-\right delimiter pairs. The no- variants disable the spacing adjustments for the corresponding default option.

In standard mathematics typesetting, TeX uses different font sizes for different portions of math lists, and it chooses a certain size based on the math style currently in use.³ TeX uses \displaystyle and \textstyle as the default for display and inline math respectively, and while in either of these styles or the corresponding cramped versions, it adds extra space between symbols of certain math classes.⁴ TeX switches to \scriptstyle, \scriptscriptstyle, or the corresponding cramped versions to typeset superscripts and subscripts, and in doing so, it forgoes most of the spacing additions from \textstyle.

The script and scriptscript options reverse this decision by forcing interatom spacing to more closely resemble that of \textstyle. Table 2 lists the amount of space that innerscript inserts between various pairs of math classes for each option, and adjustments of this type will resemble the changes to the summation from equation (2). The inner package option forces all spacing around \mathinner subformulas to take the value it would if the formula had type \mathord. Traditionally TeX places more space around \mathinner subformulas than it does around \mathord atoms, so loading innerscript with inner will remove a certain amount of space from math formulas. Changes of this type will typically resemble

²Specifically, innerscript checks whether \Umathordordspacing is defined.
³The eight math styles are \displaystyle, \textstyle, \scriptstyle, \scriptscriptstyle, and cramped versions of those four, where the control sequence begins with the word “cramped.” Technically a math style is an instruction to pull math symbols from a specific font associated with a math family and to apply certain rules for assembling formulas to this part of the math list. See Donald Knuth, The TeXbook, (Addison Wesley, 1986), 140–143, 441–447; David Salomon, The Advanced TeXbook, (Springer, 1995), 254–256.
⁴The eight classes are \mathord, \mathop, \mathbin, \mathrel, \mathopen, \mathclose, \mathpunct, and \mathinner. They are specific to particular symbols and determine spacing in math formulas. As part of its definition, every math symbol is associated with a certain math class. See Donald Knuth, The TeXbook, 170; David Salomon, The Advanced TeXbook, 256–258.
Table 2: Spacing Inserted by \texttt{innerscript} between Consecutive Atoms

<table>
<thead>
<tr>
<th>Consecutive Atom Types</th>
<th>Option script</th>
<th>Option scriptscript</th>
</tr>
</thead>
<tbody>
<tr>
<td>\texttt{\textordbar \textop}</td>
<td>0.6\texttt{\textthinspace m}</td>
<td>0.4\texttt{\textthinspace m}</td>
</tr>
<tr>
<td>\texttt{\textordbar \textbin}</td>
<td>0.7\texttt{\textthinspace m}</td>
<td>0.5\texttt{\textthinspace m}</td>
</tr>
<tr>
<td>\texttt{\textordbar \textthinner}</td>
<td>\texttt{\textthinspace m}</td>
<td>0.7\texttt{\textthinspace m}</td>
</tr>
<tr>
<td>\texttt{\textop \textordbar}</td>
<td>0.6\texttt{\textthinspace m}</td>
<td>0.4\texttt{\textthinspace m}</td>
</tr>
<tr>
<td>\texttt{\textbin \textordbar}</td>
<td>0.7\texttt{\textthinspace m}</td>
<td>0.5\texttt{\textthinspace m}</td>
</tr>
<tr>
<td>\texttt{\textthinner \textordbar}</td>
<td>0.6\texttt{\textthinspace m}</td>
<td>0.4\texttt{\textthinspace m}</td>
</tr>
<tr>
<td>\texttt{\textop \textbin}</td>
<td>\texttt{\textthinspace m}</td>
<td>0.5\texttt{\textthinspace m}</td>
</tr>
<tr>
<td>\texttt{\textthinner \textbin}</td>
<td>\texttt{\textthinspace m}</td>
<td>0.5\texttt{\textthinspace m}</td>
</tr>
<tr>
<td>\texttt{\textbin \textthinner}</td>
<td>\texttt{\textthinspace m}</td>
<td>0.5\texttt{\textthinspace m}</td>
</tr>
<tr>
<td>\texttt{\textthinner \textthinner}</td>
<td>\texttt{\textthinspace m}</td>
<td>0.5\texttt{\textthinspace m}</td>
</tr>
<tr>
<td>\texttt{\textthinner \textop}</td>
<td>\texttt{\textthinspace m}</td>
<td>0.5\texttt{\textthinspace m}</td>
</tr>
<tr>
<td>\texttt{\textthinner \textbin}</td>
<td>\texttt{\textthinspace m}</td>
<td>0.7\texttt{\textthinspace m}</td>
</tr>
<tr>
<td>\texttt{\textthinner \textthinner}</td>
<td>\texttt{\textthinspace m}</td>
<td>0.7\texttt{\textthinspace m}</td>
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<td>\texttt{\textthinner \textthinner}</td>
<td>\texttt{\textthinspace m}</td>
<td>0.7\texttt{\textthinspace m}</td>
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<tr>
<td>\texttt{\textthinner \textthinner}</td>
<td>\texttt{\textthinspace m}</td>
<td>0.7\texttt{\textthinspace m}</td>
</tr>
<tr>
<td>\texttt{\textthinner \textthinner}</td>
<td>\texttt{\textthinspace m}</td>
<td>0.7\texttt{\textthinspace m}</td>
</tr>
<tr>
<td>\texttt{\textthinner \textthinner}</td>
<td>\texttt{\textthinspace m}</td>
<td>0.7\texttt{\textthinspace m}</td>
</tr>
</tbody>
</table>

the adjustment to the function $g$ from equation (2). Users who want to further change the spacing in their math formulas should manually add glue, mugle, or \texttt{kern} to their math lists or provide new values for the \texttt{\textumlath} spacing parameters in their document preamble.
Implementation

Finally, we come to the implementation, and we begin by declaring the package. The conditionals \ifIS@script, \ifIS@scriptscript, and \ifIS@inner encode option information, and we set them according to the user’s option declaration.

\NeedsTeXFormat{LaTeX2e}
\ProvidesPackage{innerscript}[2021/02/07 v. 1.1 Package innerscript]
\newif\ifIS@script\IS@scripttrue
\newif\ifIS@scriptscript\IS@scriptscripttrue
\newif\ifIS@inner\IS@innertrue
\DeclareOption{script}{\IS@scripttrue}
\DeclareOption{scriptscript}{\IS@scriptscripttrue}
\DeclareOption{inner}{\IS@innertrue}
\DeclareOption{no-script}{\IS@scriptfalse}
\DeclareOption{no-scriptscript}{\IS@scriptscriptfalse}
\DeclareOption{no-inner}{\IS@innerfalse}
\ProcessOptions*

Check whether \Umathordordspacing is defined. If not, issue an error and \endinput. We won’t be able to print multiple spaces at once because \LaTeX collapses multiple space characters, so within a group, we change + to active and define it to be a space.

\ifx\Umathordordspacing@undefined
\bgroup\catcode`+=13
\def+{ }
\def\IS@LuaTeXError{\GenericError{}
{\MessageBreak\MessageBreak
Package innerscript error:
\MessageBreak\MessageBreak
++++++++++++++++++++\MessageBreak
++++++++++++++++++++\MessageBreak
++++CANNOT LOAD++++\MessageBreak
++++INNERSCRIPT++++\MessageBreak
++++LuaTeX Needed+++\MessageBreak
++++++++++++++++++++\MessageBreak
++++++++++++++++++++\MessageBreak}
{See the innerscript package documentation for explanation.}
{I need LuaTeX to make the innerscript package work. It\MessageBreak
looks like the current engine is something else, so I\MessageBreak
can’t load the package file. To use innerscript, please\MessageBreak
typeset with LuaLaTeX. To continue without innerscript,\MessageBreak
press return.}}
\IS@LuaTeXError
\egroup
\expandafter\endinput% we \endinput with a balanced conditional
\fi

We will use \IS@skip to store muglue information later.

\newmuskip\IS@skip
First we set the spacing for \scriptstyle and \crampedscriptstyle atoms. Each command has the form

\Umath\langle math classes\rangle \text{spacing}\langle math style\rangle=(factor)\thinmuskip,

where the math classes are a pair of choices from ord, op, bin, rel, open, close, punct, and inner. The math style is either scriptstyle or crampedscriptstyle, and the factor corresponds to the spacing listed in Table 2. We set the \scriptstyle and \scriptscriptstyle spacing before handling \mathinner subformulas because we want to use updated spacing values for the \mathinner space adjustments. Otherwise, the \scriptstyle and \scriptscriptstyle adjustments will overwrite changes to \mathinner spacing.

\iffalse
\wlog{Package innerscript Info:
Adjusting spacing for \text{\string\scriptstyle.}}
\fi

\Umathordopspacing\scriptstyle=0.6\thinmuskip
\Umathordbinspacing\scriptstyle=0.7\thinmuskip
\Umathordrelopspacing\scriptstyle=\thinmuskip
\Umathordinnerspacing\scriptstyle=0.6\thinmuskip
\Umathopordopspacing\scriptstyle=0.6\thinmuskip
\Umathopoppspacing\scriptstyle=0.6\thinmuskip
\Umathoprelopspacing\scriptstyle=\thinmuskip
\Umathopinnerspacing\scriptstyle=\thinmuskip
\Umathbinordopspacing\scriptstyle=0.7\thinmuskip
\Umathbinopspacing\scriptstyle=0.7\thinmuskip
\Umathbinrelopspacing\scriptstyle=0.7\thinmuskip
\Umathbininnerspacing\scriptstyle=0.7\thinmuskip
\Umathrelordopspacing\scriptstyle=\thinmuskip
\Umathrelopspacing\scriptstyle=\thinmuskip
\Umathrelrelopspacing\scriptstyle=\thinmuskip
\Umathrelinnerspacing\scriptstyle=0.6\thinmuskip
\Umathpunctordopspacing\scriptstyle=0.6\thinmuskip
\Umathpunctopspacing\scriptstyle=0.6\thinmuskip
\Umathpunctrelopspacing\scriptstyle=0.6\thinmuskip
\Umathpunctinnerspacing\scriptstyle=0.6\thinmuskip
\Umathinnerordopspacing\scriptstyle=0.6\thinmuskip
\Umathinneropspacing\scriptstyle=0.6\thinmuskip
\Umathinnerrelopspacing\scriptstyle=0.7\thinmuskip
\Umathinnerinnerspacing\scriptstyle=0.6\thinmuskip
\wlog{Package innerscript Info:}
    Adjusting spacing for \string\crampedscriptstyle.}
\Umathordopspacing\crampedscriptstyle=0.6\thinmuskip
\Umathordbinspacing\crampedscriptstyle=0.7\thinmuskip
\Umathordrelspacing\crampedscriptstyle=\thinmuskip
\Umathordinnerspacing\crampedscriptstyle=0.6\thinmuskip
\Umathopordspacing\crampedscriptstyle=0.6\thinmuskip
\Umathopopspacing\crampedscriptstyle=0.6\thinmuskip
\Umathoprelspacing\crampedscriptstyle=\thinmuskip
\Umathopinnerspacing\crampedscriptstyle=\thinmuskip
\Umathbinordspacing\crampedscriptstyle=0.7\thinmuskip
\Umathbinopspacing\crampedscriptstyle=0.7\thinmuskip
\Umathbinopenspacing\crampedscriptstyle=0.7\thinmuskip
\Umathbininnerspacing\crampedscriptstyle=0.7\thinmuskip
\Umathrelordspacing\crampedscriptstyle=\thinmuskip
\Umathrelopspacing\crampedscriptstyle=\thinmuskip
\Umathrelopenspacing\crampedscriptstyle=\thinmuskip
\Umathrelinnerspacing\crampedscriptstyle=\thinmuskip
\Umathpunctordspacing\crampedscriptstyle=0.6\thinmuskip
\Umathpunctopspacing\crampedscriptstyle=0.6\thinmuskip
\Umathpunctrelspacing\crampedscriptstyle=0.6\thinmuskip
\Umathpunctopenspacing\crampedscriptstyle=0.6\thinmuskip
\Umathpunctclosespacing\crampedscriptstyle=0.6\thinmuskip
\Umathpunctinnerspacing\crampedscriptstyle=0.6\thinmuskip
\Umathinnerordspacing\crampedscriptstyle=0.6\thinmuskip
\Umathinneropspacing\crampedscriptstyle=0.6\thinmuskip
\Umathinnerbinspacing\crampedscriptstyle=0.7\thinmuskip
\Umathinnerrelspacing\crampedscriptstyle=\thinmuskip
\Umathinneropenspacing\crampedscriptstyle=0.6\thinmuskip
\Umathinnerpunctspacing\crampedscriptstyle=0.6\thinmuskip
\Umathinnerinnerspacing\crampedscriptstyle=0.6\thinmuskip
\fi

Set the spacing for \scriptscriptstyle and \crampedscriptscriptstyle. The process is the same as it was for \scriptstyle except with different \muskip factors.
\fi\scriptscriptstyle
\wlog{Package innerscript Info:}
    Adjusting spacing for \string\scriptscriptstyle.}
\Umathordopspacing\scriptscriptstyle=0.4\thinmuskip
\Umathordbinspacing\scriptscriptstyle=0.5\thinmuskip
\Umathordrelspacing\scriptscriptstyle=0.7\thinmuskip
\Umathordinnerspacing\scriptscriptstyle=0.4\thinmuskip
\Umathopordspacing\scriptscriptstyle=0.4\thinmuskip

\wlog{Package innerscript Info:
  Adjusting spacing for \string\crampedscriptscriptstyle.}
Now set the spacing for \mathinner subformulas. We store each \mathord spacing dimension in \IS@skip and use it to reset the \mathinner spacing. Each command has the form

\IS@skip\Umath⟨math class⟩ordspacing⟨math style⟩\Umath⟨math class⟩innerspacing⟨math style⟩\IS@skip

or

\IS@skip\Umathord⟨math class⟩spacing⟨math style⟩\Umathinner⟨math class⟩spacing⟨math style⟩\IS@skip,

where math class is one of ord, op, bin, rel, open, close, punct, or inner. The math style is either displaystyle, textstyle, scriptstyle, scriptscriptstyle, or the cramped version of any of those four.

\ifIS@inner
\wlog{Package innerscript Info:
Adjusting spacing for \string\mathinner.}
\IS@skip\Umathordordspacing\displaystyle
\Umathordinnnerspacing\displaystyle\IS@skip
\IS@skip\Umathordordspacing\textstyle\IS@skip
\Umathordinnnerspacing\textstyle\IS@skip
\IS@skip\Umathordordspacing\scriptstyle\IS@skip
\Umathordinnnerspacing\scriptstyle\IS@skip
\IS@skip\Umathordordspacing\scriptscriptstyle\IS@skip
\Umathordinnnerspacing\scriptscriptstyle\IS@skip
\IS@skip\Umathordordspacing\crampeddisplaystyle\IS@skip
\Umathordinnnerspacing\crampeddisplaystyle\IS@skip
\IS@skip\Umathordordspacing\crampedtextstyle\IS@skip
\Umathordinnnerspacing\crampedtextstyle\IS@skip
\IS@skip\Umathordordspacing\crampedscriptstyle\IS@skip
9
\texttt{\textbackslash IS@skip\textbackslash Umathordbinspacing\texttt{\textbackslash crampedtextstyle}}
\texttt{\textbackslash Umathinnerbinspacing\texttt{\textbackslash crampedtextstyle}\texttt{\textbackslash IS@skip}}
\texttt{\textbackslash IS@skip\textbackslash Umathordbinspacing\texttt{\textbackslash crampedscriptstyle}}
\texttt{\textbackslash Umathinnerbinspacing\texttt{\textbackslash crampedscriptstyle}\texttt{\textbackslash IS@skip}}
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\texttt{\textbackslash Umathinnerbinspacing\texttt{\textbackslash crampedscriptscriptstyle}\texttt{\textbackslash IS@skip}}
\texttt{\textbackslash IS@skip\textbackslash Umathordrelspacing\texttt{\textbackslash displaystyle}}
\texttt{\textbackslash Umathinnerrelspacing\texttt{\textbackslash displaystyle}\texttt{\textbackslash IS@skip}}
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\texttt{\IS@skip\Umathordclosespacing\texttt{\textbackslash displaystyle}}
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\texttt{\textbackslash Umathinnerclosespacing\texttt{\textbackslash scriptscriptstyle}\texttt{\textbackslash IS@skip}}
\texttt{\IS@skip\Umathordclosespacing\texttt{\textbackslash crampeddisplaystyle}}
\texttt{\textbackslash Umathinnerclosespacing\texttt{\textbackslash crampeddisplaystyle}\texttt{\textbackslash IS@skip}}
Version History

1.0 ........................ February 2021
    — initial release

1.1 ........................ February 2021
    — bug fix for \textinner spacing
    — added \IfS@skip nugalue register