

nodepthtext

Adapt small texts,
with empty depth.

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<https://github.com/cpierquet/latex-packages/tree/main/nodepthtext>

A sample text to show letters with depth.
A sample text to show letters without depth.

A text to show letters with depth.
A text to show letters without depth.
A text to show letters without depth and
rescaling.

A text to show letters with depth (inconsolata).
A text to show letters w/o depth (inconsolata).
A text w/o depth and scaling (inconsolata).

A text to show letters with depth (inconsolata).
A text to show letters with raisesmash (inconsolata).

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1 Introduction

1.1 Loading, useful packages

In order to load `nodepthtext`, simply use:

```
\usepackage{nodepthtext}
```

Loaded packages are `graphicx`, `xstring` and `calc`.

1.2 Usage, limitations

The purpose of this package is to provide command, based on `\raisebox` and `\resizebox`, to locally remove depth of characters.

- the code read characters one by one;
- whenever a character (letter or punctuation...) with depth is processed, this character is raised and resized in order to match others characters;
- if Lua $\TeX$ is used, accented characters can be given normally (utf8), but with pdf $\TeX$, they must be given within $\TeX$ syntax.

So, for accented letters (because `xstring` processes the characters), please load `inputenc` and `fontenc` with corrects options if pdf $\TeX$ is used (not necessary with Lua $\TeX$).

```
%example with pdflatex preamble  
\usepackage[T1]{fontenc}  
\usepackage[utf8]{inputenc}
```

1.3 History

0.1.1: Smash version of macros + lua version 'improved'
0.1.0: Initial version

2 The macros

2.1 Main macro, legacy version

2.1.1 Main macro

The main macro is `\nodepth`.

```
\nodepth[scale]{text}
```

The optional argument, within `[...]`, can modify scale for modified characters (`0.8` by default). The mandatory argument, within `{...}`, is a small text to process (beware of accentuated characters).

In order to work with sizes and fonts, the macro needs to be given within the group of defined size/font!

2.1.2 Samples with custom size

```
%normal version, with depth of letters
{\Large\ttfamily A text to show letters with depth.}

%nodepth version, with removing depth and resizing
{\Large\ttfamily\nodepth{A text to show letters without depth.}}\
{\Large\ttfamily\nodepth[0.7]{A text to show letters without depth and scaling.}}
```

A text to show letters with depth.
A text to show letters without depth.
A text to show letters without depth and scaling.

2.1.3 With custom font, and accents

```
%use inconsolata font (with pdfLaTeX)
\newcommand\fontIZ{\fontencoding{T1}\fontfamily{zi4}\fontseries{sb}\selectfont}
```

```
{\large\sffamily A text to show depth and a word with accents, météo.}\
%nodepth version, with removing depth and resizing and accents...
{\large\sffamily\nodepth{Quote text w/o depth and a word with accents, météo.}}\
{\large\sffamily\nodepth[0.7]{Quote text w/o depth, scaling and a word with accents,
    météo.}}
```

A text to show depth and a word with accents, météo.

Quote text w/o depth and a word with accents, météo.

Quote text w/o depth, scaling and a word with accents, météo.

2.2 raisesmash macros, with $\text{\LaTeX}$ 3, and Lua $\text{\LaTeX}$

2.2.1 Main macro

The $\text{\LaTeX}$ 3 version are `\raisesmashletter` for a single letter and `\raisesmashtext` for a whole word. Due to internal code, it's recommended to compile with Lua $\text{\LaTeX}$.

```
\raisesmashletter[ref chars]{character} %manuel version of smashing
\raisesmashletter{character} %auto version with UPPERCASE
\raisesmashletter*{character} %auto version with lowercase

\def\sampleslettersminus{azervosmwxvvn} %default sample
\def\sampleslettersmajus{AZERTUIOSDHKLMWXCvBN} %default sample
```

- the starred form (`*`) selects `\sampleslettersminus` (lowercase sample letters) as the reference; the unstarred form selects `\sampleslettersmajus` (uppercase sample letters);
- the optional argument, within `[...]`, overrides this automatic choice with an explicit reference string (e.g. `[aeiou]`); when given, the star is ignored;
- the mandatory argument is the single character to process.

```
{\LARGE\ttfamily ( vs \raisesmashletter{(} vs \raisesmashletter*{(}\}\}\
{\LARGE\ttfamily g vs \raisesmashletter{g} vs \raisesmashletter*{g}\}\}\
{\LARGE\ttfamily J vs \raisesmashletter{J} vs \raisesmashletter*{J}\}\}\}
```

```
( VS ( VS (
g VS g VS g
J VS J VS J
```

```
\raisesmashtext{word} %auto version with UP/lo detection
\raisesmashtext[ref chars]{word} %manual version
```

2.2.2 Samples

```
%for just on letter
{\large\ttfamily CÉDRIC vs C\raisesmashletter{É}DRIC}\}
{\large\ttfamily Cédríc vs C\raisesmashletter*{é}dric}\}
```

```
CÉDRIC vs CÉDRIC
Cédríc vs Cédric
```

```
%with word(s)
{\large\ttfamily CÉDRIC vs \raisesmashtext{CÉDRIC}}\}
{\large\ttfamily Bonjour vs \raisesmashtext{Bonjour}}\}
{\large\ttfamily JOYEUX vs \raisesmashtext{JOYEUX}}\}
{\large\ttfamily Programmation(gestion) vs \raisesmashtext{Programmation(gestion)}}\}
```

```
CÉDRIC vs CÉDRIC
Bonjour vs Bonjour
JOYEUX vs JOYEUX
Programmation(gestion) vs Programmation(gestion)
```

3 The code

```
% Author      : C. Pierquet
% licence     : Released under the LaTeX Project Public License v1.3c or later, see http://www.latex-project.org/lppl.txt

\NeedsTeXFormat{LaTeX2e}
\ProvidesPackage{nodepthtext}[2026/09/07 0.1.1 Raise small texts for "no depth" letters]

%====HISTORIQUE
% v 0.1.1  Smash version of macros + lua version 'improved'
% v 0.1.0  Initial version

%====BASE
\RequirePackage{ifthen}
\RequirePackage{xstring} %legacy
\RequirePackage{calc}
\RequirePackage{graphicx}

%====DIMS & Useful
\newlength\depthletter
\newlength\totalheightletter
\newlength\depthsampleletter
\newlength\heightsampleletter
\newcount\cptraiseletter
\def\sampleslettersnodepth{azertuiosdhklmwxcvbnAZERTYUIOPSDFGHJKLMWXCVBN}
\def\sampleslettersminus{azertuioasmwxcvn}
\def\sampleslettersmajus{AZERTUIOSDHKLMWXCVBN}

%====NO DEPTH MACROS
\NewDocumentCommand\raiseletter{ O{0.8} m m }{%
  \settodepth{\depthletter}{\hbox{#3}}%
  \ifdim\depthletter>#2%
    \raisebox{\dimexpr#1\depthletter-#2\relax}{\resizebox{\width}{#1\height}{#3}}%
  \else%
    {#3}%
  \fi%
}

\NewDocumentCommand\nodepth{ O{0.8} m }{%
  \settodepth{\depthsampleletter}{\hbox{\sampleslettersnodepth}}%
  \StrLen{#2}[\tmplenword]%
  \cptraiseletter0%
  \loop\ifnum\cptraiseletter<\tmplenword%
    \advance\cptraiseletter by 1%
    \raiseletter[#1]{\depthsampleletter}{\StrChar{#2}{\the\cptraiseletter}}%
  \repeat%
}

%====L3 NODEPTH/SMASH MACROS
\ExplSyntaxOn
\NewDocumentCommand\nodepthlua{ O{0.8} m }{%
  \settodepth{\depthsampleletter}{\hbox{\sampleslettersnodepth}}%
  \settoheight{\heightsampleletter}{\hbox{\sampleslettersnodepth}}%
  \str_map_inline:nn { #2 } { \raiseletter[#1]{\depthsampleletter}{##1} }%
}

\NewDocumentCommand\raisesmashletter{ s O{ } m }{%
  % = * -> minuscule
  % = longueurs de reference, calculees a partir de la chaine #2
  \ifthenelse{\equal{#2}{}}{%vide = mode auto
    {%
      \IfBooleanTF{#1}{%étoilée = minuscule
        {%
          \settodepth{\depthsampleletter}{\hbox{\sampleslettersminus}}%
          \settoheight{\heightsampleletter}{\hbox{\sampleslettersminus}}%
        }%
        {%
          \settodepth{\depthsampleletter}{\hbox{\sampleslettersmajus}}%
          \settoheight{\heightsampleletter}{\hbox{\sampleslettersmajus}}%
        }%
      }%
    }%
  }%
  \settodepth{\depthsampleletter}{\hbox{#2}}%
  \settoheight{\heightsampleletter}{\hbox{#2}}%
}

% = longueurs du caractere a traiter
\settodepth{\depthletter}{\hbox{#3}}%
\settotoheight{\totalheightletter}{\hbox{#3}}%
\ifdim\depthletter>\depthsampleletter\relax%
\ifdim\totalheightletter>\heightsampleletter\relax%
  % 2b/ depth excedentaire ET hauteur totale hors reference :
  %   on resize a la reference, puis on remonte de la DEPTH APRES resize (-> nouvelle depth = 0)
  \raisebox{\dimexpr\depthletter*\heightsampleletter/\totalheightletter\relax}%
  {\resizebox*{\width}{\heightsampleletter}{#3}}%
\else%
  % 2a/ depth excedentaire mais pas de debordement : simple remontee de la depth
  \raisebox{\depthletter}{#3}%
\fi%
\else%
\ifdim\totalheightletter>\heightsampleletter\relax%
  % 3b/ depth deja correcte mais hauteur totale hors reference (ex. lettre haute sans jambage) : resize seul
  \resizebox*{\width}{\heightsampleletter}{#3}%
\else%

```

```

% 3a/ rien a faire
{#3}%
\fi%
\fi%
}

\NewDocumentCommand\raisesmashtext{ O{} m }{%
\str_map_inline:nn { #2 } {
\str_if_eq:eeTF { \tl_upper_case:n {##1} } { ##1 }
{ \raisesmashletter[#1]{##1} }%
{ \raisesmashletter*[#1]{##1} }%
}%
}
\ExplSyntaxOff

\endinput

```