

inlinegraphicx


Includegraphics, with an
automatic inline positioning.


Version 0.1.0 - 06/11/2024


Cédric Pierquet

c pierquet - at - outlook . fr

<https://github.com/cpierquet/inlinegraphicx>

Inline insertion,  with automatic adjustments.

Inline insertion,  with automatic adjustments.

Inline insertion,  with automatic adjustments but without depth.

Inline  proof with small resizing.

Inline insertion, () with automatic adjustments and choice of optimal height.

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1 Loading, useful packages

In order to load `inlinegraphicx`, simply use:

```
\usepackage{inlinegraphicx}
```

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

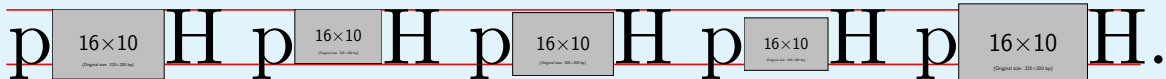
2 Usage

The purpose of this package is to provide command, based on `\includegraphics`, to insert graphic elements *inline*, with automatic positioning and scaling.

The code determines (total)height and, if necessary, depth of letters in the current font, in order to position the image correctly :

- (total)height is given by (total)height of `qH` in the current font ;
- depth is given by depth of `qH` in the current font.

In order to adjust manually size/positioning, `[keys]` are available.



3 The macro

3.1 Arguments

The macro for inline insertion is `\inlinegraphics`.

```
\inlinegraphics(*)[scale=...,strut=...]{image}
```

The starred version remove depth positioning, wheres normal version include depth. Available keys are:


- `scale` : re-scaling of compute height (default `1`) ;
- `strut` : characters for height/depth (default `qH`).


3.2 Examples


Inline insertion, `\inlinegraphics{example-image-16x10}` with automatic adjustments.

Inline insertion, `\inlinegraphics[scale=0.75]{example-image-16x10}` with automatic adjustments and scaling.

Inline insertion, `\inlinegraphics*{example-image-16x10}` with automatic adjustments and without depth.

Inline insertion,  with automatic adjustments.

Inline insertion,  with automatic adjustments and scaling.

Inline insertion,  with automatic adjustments and without depth.



```
\scalebox{3}[3]{Inline (\inlinegraphics[strut={()}]{example-image-16x10})  
q\inlinegraphics{example-image-16x10}H insertion}.
```

Inline () q  H insertion.

```
\sffamily{\Huge Inline (\inlinegraphics[strut={()}]{example-image-16x10})  
q\inlinegraphics{example-image-16x9}H insertion}.
```

Inline () q  H insertion.

```
\ttfamily{\LARGE Inline (\inlinegraphics[strut={{É}}]{example-image-16x10})É)  
q\inlinegraphics{example-image-16x10}H insertion}.
```

Inline ( É) q  H insertion.

4 History

0.1.0: Initial version

5 The code

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

\NeedsTeXFormat{LaTeX2e}
\ProvidesPackage{inlinegraphicx}[2024/11/06 0.1.0 Insert inline graphicx]

%====HISTORY
% v 0.1.0   Initial version

%====BASE
\RequirePackage{graphicx}
\RequirePackage{calc}
\RequirePackage{simplekv}

%====DIMENSIONS
\newlength{\totheightinlinegraphicx}
\newlength{\depthinlinegraphicx}
\newlength{\inlinedepthgraphicsscale}

%====KEYS
\defKV[inlinegraphics]{scale=\def\inlinegraphics{scale=#1},strut=\def\inlinegraphicstrut{#1}}
\setKVdefault[inlinegraphics]{scale=1,strut={qH}}

%====MACRO
\NewDocumentCommand\inlinegraphics{ s O{ } m }{%
  %1 = no depth/raisebox
  %2 = keys (scale + strut)
  %3 = file
  \restoreKV[inlinegraphics]%
  \setKV[inlinegraphics]{#2}%
  \IfBooleanTF{#1}%
  {%
    \settoheight{\totheightinlinegraphicx}{\hbox{\inlinegraphicstrut}}%
    \includegraphics[height=\inlinegraphics{scale}\totheightinlinegraphicx]{#3}%
  }%
  {%
    \settototalheight{\totheightinlinegraphicx}{\hbox{\inlinegraphicstrut}}%
    \settodepth{\depthinlinegraphicx}{\hbox{\inlinegraphicstrut}}%
    \xdef\inlinegraphicsinvscale{\fpeval{0.5*(1-\inlinegraphics{scale})}}%
    \setlength{\inlinedepthgraphicsscale}%
      {\dimexpr\depthinlinegraphicx-\inlinegraphicsinvscale\totheightinlinegraphicx\relax}%
    \raisebox{-\inlinedepthgraphicsscale}{%
      \includegraphics[height=\inlinegraphics{scale}\totheightinlinegraphicx]{#3}%
    }%
  }%
}

\endinput
```