

# inlinegraphicx

Includegraphics, with an  
automatic inline positioning.


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Cédric Pierquet

c pierquet – at – outlook . fr

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

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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}
```

The only loaded package is `graphicx`, the rest of the code is in  $\text{\LaTeX}3$ .

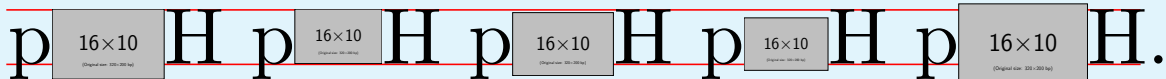
## 2 Usage

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=...]<includegraphics options>{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.

```
\ttfamily{\large Inline insertion,
(\inlinegraphics[strut={()}]<angle=10>{example-image-16x10}) with option given to
includegraphics.}
```

Inline insertion, () with option given to includegraphics.

## 4 History

0.20a: Bugfix with gset (tks to D. Bitouze)  
0.2.0: LaTeX3 version of code  
0.1.1: Pass option to includegraphics within the macro  
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.txt

\NeedsTeXFormat{LaTeX2e}
\ProvidesExplPackage{inlinegraphicx}{2026-02-20}{0.20a}{Insert inline graphic with LaTeX3}

%====HISTORY
% v 0.20a  Bugfix with gset + l3 improvements
% v 0.2.0  LaTeX3 conversion
% v 0.1.1  Alt options for includegraphics
% v 0.1.0  Initial version

%====PACKAGE
\RequirePackage { graphicx }

%====VARIABLES (toutes \l_ = locales au groupe de la macro)
\dim_new:N \l_toheight_inlinegraphicx_dim
\dim_new:N \l_depth_inlinegraphicx_dim
\dim_new:N \l_raisebox_inlinegraphicx_dim
\fp_new:N \l_scale_inlinegraphicx_fp
\fp_new:N \l_invscale_inlinegraphicx_fp
\tl_new:N \l_strut_inlinegraphicx_tl

%====KEYS
\keys_define:nn { inlinegraphics }
{
  scale .fp_set:N = \l_scale_inlinegraphicx_fp,
  scale .initial:n = { 1.0 },
  scale .default:n = { 1.0 },
  strut .tl_set:N = \l_strut_inlinegraphicx_tl,
  strut .initial:n = { qH },
  strut .default:n = { qH },
}

%====MAIN MACRO
\NewDocumentCommand \inlinegraphics { s O { } D < > { } m }
{
  \group_begin:

  \keys_set:nn { inlinegraphics } { scale = { 1.0 }, strut = { qH } }
  \keys_set:nn { inlinegraphics } { #2 }
  % ---
  \bool_if:NTF #1
  {
    % --- Mode étoilé : hauteur = hauteur de la capitale du strut
    \hbox_set:Nn \l_tmpa_box { \tl_use:N \l_strut_inlinegraphicx_tl }
    \dim_set:Nn \l_toheight_inlinegraphicx_dim { \box_ht:N \l_tmpa_box }
    \includegraphics
    [
      height =
      {
        \fp_eval:n
        {
          \l_scale_inlinegraphicx_fp * \l_toheight_inlinegraphicx_dim
        }
      }
      pt
    ],
    #3
  ]
  { #4 }
}
{
  % --- Mode normal : hauteur totale (ht+dp) du strut avec alignement vertical
  \hbox_set:Nn \l_tmpa_box { \tl_use:N \l_strut_inlinegraphicx_tl }
  \dim_set:Nn \l_toheight_inlinegraphicx_dim
  { \box_dp:N \l_tmpa_box + \box_ht:N \l_tmpa_box }
  \dim_set:Nn \l_depth_inlinegraphicx_dim
  { \box_dp:N \l_tmpa_box }
  \fp_set:Nn \l_invscale_inlinegraphicx_fp
  { 0.5 * ( 1.0 - \l_scale_inlinegraphicx_fp ) }
  \dim_set:Nn \l_raisebox_inlinegraphicx_dim
  {
    \l_depth_inlinegraphicx_dim
    -
    \fp_eval:n
    {
      \l_invscale_inlinegraphicx_fp * \l_toheight_inlinegraphicx_dim
    }
  }
  pt
}
}
```

```

\raisebox { - \dim_use:N \l_raisebox_inlinegraphicx_dim }
{
  \includegraphics
  [
    height =
    {
      \fp_eval:n
      {
        \l_scale_inlinegraphicx_fp * \l_toheight_inlinegraphicx_dim
      }
      pt
    },
    #3
  ]
  { #4 }
}
\group_end:
}
\endinput

```