

pictochrono

A chronometer, made with TikZ,
for inline insertion.

Version 0.1.1 - 25/06/2025

Cédric Pierquet



c pierquet - at - outlook . fr

<https://forge.apps.education.fr/pierquetcedric/packages-latex>

Contents

1	The package pictochrono	2
1.1	Ideas	2
1.2	Loading	2
2	The command	2
2.1	Usage	2
2.2	Examples	2
3	History	4



Exercise n°1	()	(5 points)
Exercise n°2	()	(9 points)
Exercise n°3	()	(11 points)

1 The package pictochrono

1.1 Ideas

The idea is to display a pictogram like "chronometer" to present times for exercises, for example. The pictogram can be inserted inline with automatic height and vertical offset, or with a manual height and offset.

1.2 Loading

The package loads within the preamble, with `\usepackage{pictochrono}`.

The only loaded packages are `simplekv`, `calc`, `simplekv`, `xstring`, `etoolbox` and `tikz` (with `calc` library).

```
\usepackage{pictochrono}
```

2 The command

2.1 Usage

The command is `\pictochrono`.

```
\pictochrono[keys]{duration}<v.align>
```

The optional keys are :

- the key `Height`:
 - can use an automatic height, with `auto` (by default, global height of current font `qB` + small vertical offset);
 - can specify a global height;
 - the `Strut` key can adjust characters box automatic height;
- the key `Color` for the main color (`black` by default);
- the key `ColTime` for the color of duration, if specified (`lightgray` by default);
- the key `Delta` for the graduations of minutes (within 0/5/10/15/20/30) (5 by default);
- the key `Offset` for manual vertical offset (`auto` by default);

The mandatory argument, between `{...}`, is the duration to be displayed.

The optional argument, between `<...>`, can specify a vertical alignment of the pictogram (within `vcenter/vbottom/vtop`, or empty for default positioning).

2.2 Examples


```
%automatic inline insertion (with an without 'Strut' key)
This is a test, with a \pictochrono{25} minutes chronometer, or
(\pictochrono[Strut=()]{25}).
```

This is a test, with a 🕒 minutes chronometer, or (🕒).

```
%automatic inline insertion, with user colors.
```

```
{\Huge This is an other test, with a
```

```
\pictochrono[Delta=15,Color=blue,ColTime=red]{20} minutes chronometer.}
```

This is an other test, with a  minutes chronometer.

```
%manual inline insertion, with manual offset.
```

```
This a \pictochrono[Height=3em,Offset=-0.75em]{45} minutes chronometer.
```

This a  minutes chronometer.

```
%manual insertion
```

```
\pictochrono[Height=5cm,ColTime=teal]{33}
```



```
%wihtin a tblr
```

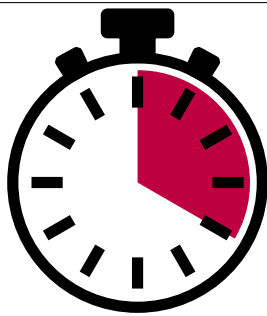
```
\begin{tblr}{hlines,vlines,colspec={Q[m,c]Q[8cm,m,j]}}
```

```
\pictochrono[Height=4cm,ColTime=purple]{20}
```

```
&
```

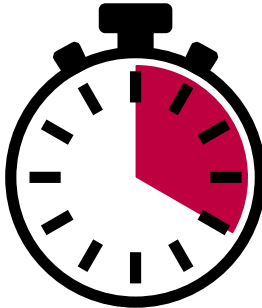
```
\lipsum[1][1-9] \\\
```

```
\end{tblr}
```



Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris. Nam arcu libero, nonummy eget, consectetur id, vulputate a, magna. Donec vehicula augue eu neque. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Mauris ut leo. Cras viverra metus rhoncus sem. Nulla et lectus vestibulum urna fringilla ultrices.

```
%wihtin a tblr
\begin{tblr}{hlines,vlines,colspec={Q[m,c]Q[8cm,m,j]}}
  \pictochrono[Height=4cm,ColTime=purple]{20}<vcenter>
  &
  \lipsum[1][1-9] \\\
\end{tblr}
```

	<p>Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris. Nam arcu libero, nonummy eget, consectetur id, vulputate a, magna. Donec vehicula augue eu neque. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Mauris ut leo. Cras viverra metus rhoncus sem. Nulla et lectus vestibulum urna fringilla ultrices.</p>
---	---

3 History

v0.1.1 : New key [strut=...] for adapting (auto-)height
v0.1.0 : Initial version