

# docshots: T<sub>E</sub>X Samples Next to Their PDF Snapshots in DTX\*

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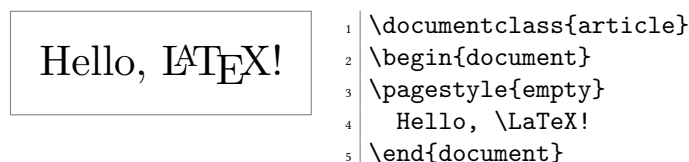
**NB!** You must run T<sub>E</sub>X processor with `--shell-escape` option and you must have Perl installed.

## 1 Introduction

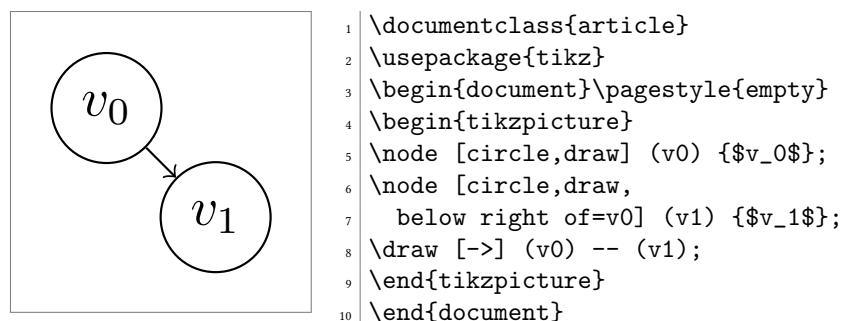
You put this into your .dtx file:

```
% \begin{docshot}
% \documentclass{article}
% \begin{document}
% \pagestyle{empty}
%   Hello, \LaTeX!
% \end{document}
% \end{docshot}
```

It will be rendered as such:



Here is a more complex example:



---

\*The sources are in GitHub at [yegor256/docshots](https://github.com/yegor256/docshots)

The pictures you see on the left sides are rendered by a subprocess executing `pdflatex` with the `.tex` content taken from `dtx` file. After a successful processing of  $\text{\TeX}$  sources, we use `pdfcrop` to trim the document. Then, the trimmed PDF is embedded into the final document.

## 2 Implementation

First, we include a few packages:

```
1 \RequirePackage{iexec}
2 \RequirePackage{fancyvrb}
3 \RequirePackage{xcolor}
4 \RequirePackage{graphicx}
5 \RequirePackage{tikz}
6 \usetikzlibrary{shadows.blur}
```

Then, we show the version of `pdflatex`:

```
7 \iexec[log,quiet]{pdflatex --version}%
```

Then, we show the version of `pdfcrop`:

```
8 \iexec[log,quiet]{pdfcrop --version}%
```

Then, we show the version of `ghostscript`:

```
9 \iexec[log,quiet]{gs --version}%
```

Then, we make a directory where all temporary files will be kept:

```
10 \iexec[null]{mkdir -p _docshots/\jobname}%
```

`docshot` Then, we define `docshot` environment:

```
11 \newenvironment{docshot}
12 {\VerbatimEnvironment\begin{VerbatimOut}{_docshots/\jobname/verbatim.tex}}
13 {\end{VerbatimOut}}%
14 \iexec[null]{perl -i -0777pe "s/(\\n|^)\\x{25} /\n/g"
15   _docshots/\jobname/verbatim.tex}%
16 \def\hash{\pdfmdfivesum file {_docshots/\jobname/verbatim.tex}}%
17 \message{^^Jdocshots: name set to "\hash"^^J}%
18 \iexec[log,quiet]{cp _docshots/\jobname/verbatim.tex
19   _docshots/\jobname/\hash.tex}%
20 \iexec[log,quiet]{(cd _docshots/\jobname;
21   pdflatex -interaction=batchmode -shell-escape \hash.tex)}%
22 \iexec[log,quiet]{pdfcrop --margins 5 _docshots/\jobname/\hash.pdf
23   _docshots/\jobname/\hash.crop.pdf}%
24 \fvset{frame=leftline,numbers=left,numbersep=3pt,
25   framerule=.4pt,rulecolor=\color{gray},
26   samepage=true}%
27 \par%
28 \tikz[baseline=(a.north)] \node[draw=gray] (a)
29   {\includegraphics[width=.3\linewidth]{_docshots/\jobname/\hash.crop.pdf}};%
30 \hspace{1.8em}%
31 \begin{minipage}[t]{.65\linewidth}%
32   \vspace{0pt}%
33   \VerbatimInput{_docshots/\jobname/\hash.tex}%
34   \vspace{0pt}%
35 \end{minipage}%
36 \par%
37 }
```

# Change History

v0.0.1  
General: Initial version . . . . . 2

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