

# The `svninfo` package

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## Abstract

This package is used to extract the revision and file information provided by the *Subversion* revision control system (<http://subversion.tigris.org>). Support for the  $\text{\LaTeX}$ 2HTML conversion tool is provided<sup>1</sup>.

## 1 Introduction

To maintain different versions of a document or to keep track on the development of one, the document is kept under a revision control system like *SCCS*, *CVS*, or *Subversion*. This package assumes you are using the *Subversion* system. To present the version information of a document, one needs to extract it from some kind of text inserted by the revision control system. *Subversion* offers therefore the `$Id$` keyword, which is expanded by the *Subversion update* command and contains a lot of useful information. This information is made available through this package.

The information obtained from the expanded `$Id$` string are

- the filename,
- the revision number,
- the date and time of the last *Subversion co* command, and
- name of the user who has done this action.

For each of these items a macro is defined. When *updating* a file, the *Subversion* keywords should be contained in the *updated* source. Further, one has to set the *Subversion* property for keyword expansion of that file, e.g.

```
svn propset svn:keywords "Id" svninfo.dtx
```

---

<sup>1</sup> $\text{\LaTeX}$ 2HTML is a conversion tool that allows documents written in  $\text{\LaTeX}$  to become part of the World Wide Web. It's written by *Nikos Drakos*, *Computer Based Learning Unit*, *University of Leeds*.

See the *Subversion* documentation for more details. If the user wishes, the `\today` macro is redefined, so that it returns the *Subversion* date.

If you want to read about the implementation, put a % before `\Only-Description` in the code marked with `<*driver>` in the file `svninfo.dtx`.

## 2 User Interface

### 2.1 Options

Options for this package are:

**today** Set the date of `\today` to the date obtained by the *Subversion* information. If the `$Id$` string is not expanded (see below), the current date is used.

**notoday** Don't use the *Subversion* date for `\today`.

**fancyhdr** We use the `fancyhdr` package to fill the footline with *Subversion* information: filename, revision-number and date.

If the `fancyhdr` package is not already loaded, it will be loaded by this package. To use the footnotes, put something like:

```
\pagestyle{fancyplain}
\fancyhead[RE,LO]{\leftmark}
\fancyhead[LE,RO]{\thepage}
```

in the preamble.

**nofancy** We don't define the footline. The `fancyhdr` package is not loaded.

**long** If used together with `fancy` / `fancyhdr` the date string is printed in the long format as `\today` returns it. If `fancy` / `fancyhdr` is not used, nothing.

**short** If used together with `fancy` / `fancyhdr` the date string is printed in the short format `YYYY-MM-DD`. If `fancy` / `fancyhdr` is not used, nothing.

If the `babel` package is used, the `\today` string is language dependent.

The default options are: *today, long*. In the configuration file `svninfo.cfg` one of fancy heading packages may be set as a default option too.

### 2.2 Commands

#### 2.2.1 Defining the *Subversion* information

`\svnInfo` There is only one macro to define the information: `\svnInfo`. Since it must collaborate with *Subversion* it has an “unusual” calling sequence: The arguments are surrounded by `$`. The following arguments are valid:

```
\svnInfo_{$Id$}
```

```
\svnInfo_{$Id:$}
\svnInfo_{$Id:{$file_{$rev_{$YYYY-MM-DD_{$hh:mm:ss_{$owner$}
```

In the first two forms, *Subversion* has not expanded the `$Id$` string. This form will usually be used before the file is *checked in* the first time.

`YYYY-MM-DD` is a date, `hh:mm:ss` a time. Note: when you perform the *Subversion check out* command, the `$Id$` string is expanded by *Subversion* automatically.

To take effect, `\svnInfo` must follow the `\begin{document}`. If you are using multiple files for a document, you could place `\svnInfo` at the beginning of each file, so the information from the current file is obtained (this is not valid, when translating with `LATEX2HTML`, see below).

### 2.2.2 Accessing the *Subversion* information

There are the following macros to access the information provided by *Subversion*. If *Subversion* has not expanded the `$Id$` string, or no `\svnInfo` command is given, default values are returned.

<code>\svnInfoFile</code>	• The name of the source file. Default: <code>--sourcefile--</code> .
<code>\svnInfoRevision</code>	• The <i>Subversion</i> revision number, of the <i>checked out</i> file. Default: <code>--revision--</code> .
<code>\svnInfoDate</code>	• The date in the form <code>YYYY-MM-DD</code> , when the file was <i>checked out</i> . Default: the current date.
<code>\svnInfoTime</code>	• The time, when the file was <i>checked out</i> . Default: <code>--time--</code> .
<code>\svnInfoOwner</code>	• The user name of the file owner. Default: <code>--owner--</code> .
<code>\svnInfoYear</code>	• The year <code>YYYY</code> of <code>\svnInfoDate</code> . Default: the current year.
<code>\svnInfoMonth</code>	• The month <code>MM</code> of <code>\svnInfoDate</code> . Default: the current month.
<code>\svnInfoDay</code>	• The day <code>DD</code> of <code>\svnInfoDate</code> . Default: the current day.
<code>\svnInfoLongDate</code>	• The date in the form of <code>\today</code> when the file was <i>checked out</i> . This is language dependend. Default: the current date.
<code>\svnId</code>	• Mimicks the behavior of the <code>\$Id\$</code> strings, i.e. it prints a string with a summary of the above described information.

## 2.3 L<sup>A</sup>T<sub>E</sub>X2HTML

When converting a L<sup>A</sup>T<sub>E</sub>X document to HTML using the L<sup>A</sup>T<sub>E</sub>X2HTML tool, it's possible to use the *Subversion* information in the HTML document too. This functionality is offered by the extension file `svninfo.perl` which should be placed into the directory `LATEX2HTML/styles`. For more information have a look at the documentation of L<sup>A</sup>T<sub>E</sub>X2HTML.

An example is given in the file `svninfo2html.tex`.

### Notes

- Use at least version *99.1 release (March 30, 1999)* of L<sup>A</sup>T<sub>E</sub>X2HTML.
- You should `\usepackage{html}`.
- You must run L<sup>A</sup>T<sub>E</sub>X on the input file before running L<sup>A</sup>T<sub>E</sub>X2HTML.
- In order to make L<sup>A</sup>T<sub>E</sub>X2HTML read the `.aux` file, you must either:
  - call L<sup>A</sup>T<sub>E</sub>X2HTML with the option `-show_section_numbers` or
  - include the `.aux` file explicitly in your L<sup>A</sup>T<sub>E</sub>X-source, by adding the lines in the preamble:
 

```
\begin{htmlonly}
\input{source.aux}
\end{htmlonly}
```

 which requires `\usepackage{html}`.

If you don't do so, the `\svnInfo...` commands give no value.

- If using the L<sup>A</sup>T<sub>E</sub>X2HTML tool, only the last `\svnInfo` takes effect, e.g. if using several input files each having the `\svnInfo` command, only the values of the last included file are used. (If this is a serious problem for you, drop me a mail).
- If the `fancy / fancyhdr` option is given to the `svninfo` package, the date of the ADDRESS at the bottom of the HTML page is set to the *Subversion* date.
- If you would like to set your own ADDRESS text, you should define a procedure, which sets `perl $main::ADDRESS` variable in your local `.latex2html` initialization file. The routine may use the `perl` variables shown below. Assign a reference of this procedure to the `perl`-variable `$svninfo::SetAddressProc`. E.g. if you have a `perl` routine `&my_address_field`, then
 

```
$svninfo::SetAddressProc = &my_address_field.
```

Here are the commands, the Perl-variables and their output:

L <sup>A</sup> T <sub>E</sub> X-command	perl variable	Result for this file
<code>\today</code>	<code>\$today</code>	October 3, 2005
<code>\svnInfoFile</code>	<code>\$svninfo::File</code>	–sourcefile–
<code>\svnInfoRevision</code>	<code>\$svninfo::Revision</code>	–revision–
<code>\svnInfoOwner</code>	<code>\$svninfo::Owner</code>	–owner–
<code>\svnInfoDate</code>	<code>\$svninfo::Date</code>	2005-10-03
<code>\svnInfoLongDate</code>	<code>\$svninfo::LongDate</code>	October 3, 2005
<code>\svnInfoDay</code>	<code>\$svninfo::Day</code>	3
<code>\svnInfoMonth</code>	<code>\$svninfo::Month</code>	10
<code>\svnInfoYear</code>	<code>\$svninfo::Year</code>	2005

### 3 Examples

\svnInfo not expanded, no colon

```
\svnInfo $Id$
    \svnInfoFile -sourcefile-    \svnInfoYear 2005
    \svnInfoRevision -revision-    \svnInfoMonth 10
    \svnInfoDate 2005-10-03    \svnInfoDay 3
    \svnInfoTime -time-    \svnInfoLongDate October 3, 2005
    \svnInfoOwner -owner-    \today October 3, 2005
\svnId -sourcefile- -revision- -time- -owner-
```

\svnInfo not expanded, having colon

```
\svnInfo $Id:$
    \svnInfoFile -sourcefile-    \svnInfoYear 2005
    \svnInfoRevision -revision-    \svnInfoMonth 10
    \svnInfoDate 2005-10-03    \svnInfoDay 3
    \svnInfoTime -time-    \svnInfoLongDate October 3, 2005
    \svnInfoOwner -owner-    \today October 3, 2005
\svnId -sourcefile- -revision- -time- -owner-
```

\svnInfo standard version

```
\svnInfo $Id: svninfo.dtx 1168 2005-04-08 06:18:47Z brucker $
    \svnInfoFile svninfo.dtx    \svnInfoYear 2005
    \svnInfoRevision 1168    \svnInfoMonth 4
    \svnInfoDate 2005-04-08    \svnInfoDay 8
    \svnInfoTime 06:18:47Z    \svnInfoLongDate April 8, 2005
    \svnInfoOwner brucker    \today April 8, 2005
\svnId svninfo.dtx 1168 2005-04-08 06:18:47Z brucker
```

\svnInfo standard version without owner

```
\svnInfo $Id: svninfo.dtx 1168 2005-04-08 06:18:47Z $
    \svnInfoFile svninfo.dtx    \svnInfoYear 2005
    \svnInfoRevision 1168    \svnInfoMonth 4
    \svnInfoDate 2005-04-08    \svnInfoDay 8
    \svnInfoTime 06:18:47Z    \svnInfoLongDate April 8, 2005
    \svnInfoOwner    \today April 8, 2005
\svnId svninfo.dtx 1168 2005-04-08 06:18:47Z
```

\svnInfo no leading \$

```
\svnInfo Id: svninfo.dtx 12 2002-04-19 12:27:55 brucker $
    \svnInfoFile svninfo.dtx    \svnInfoYear 2002
    \svnInfoRevision 12    \svnInfoMonth 4
    \svnInfoDate 2002-04-19    \svnInfoDay 19
    \svnInfoTime 12:27:55    \svnInfoLongDate April 19, 2002
    \svnInfoOwner brucker    \today April 19, 2002
\svnId svninfo.dtx 12 2002-04-19 12:27:55 brucker
```

## 4 Acknowledgements

This package is directly based on `rcsinfo` from Dr. Jürgen Vollmer which is distributed via the CTAN archives in directory `'macros/latex/contrib/rcsinfo'`. All the honour belongs to him, I only adopted his code to the format of the `Id` line subversion uses and removed the support for the outdated `fancyheadings` package.

## 5 Copyright and License

Copyright (©) 1995 Dr. Jürgen Vollmer  
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 This program can be redistributed and/or modified under the terms of the L<sup>A</sup>T<sub>E</sub>X Project Public License Distributed from CTAN archives in directory `'macros/latex/base/lppl.txt'`; either version 1 of the License, or any later version.

## Change History

v0.1	General: Initial version, mainly a modified version of the <code>rcsinfo</code> package. .... 1	<code>svnId</code> (suggested by Thomas Weber). .... 1
		v0.3
		General: Added support for <code>\$Id:\$</code> keywords without owner in- formation (a bug reported by Uwe Ziegenhagen). .... 1
v0.2	General: Removed L <sup>A</sup> T <sub>E</sub> X2HTML build-dependency. .... 1	
v0.2.1	General: Added	

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Numbers written in *italic* refer to the page where the corresponding entry is described; numbers underlined refer to the code line of the definition; numbers in roman refer to the code lines where the entry is used.

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<code>\svnInfoDate</code> ..... 3	<code>\svnInfoRevision</code> ..... 3
<code>\svnInfoDay</code> ..... 3	<code>\svnInfoTime</code> ..... 3
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