

The `svninfo` package

Achim D. Brucker

brucker@freiburg.linux.de

<http://www.brucker.ch/>

May 11, 2006

Version 0.6

Abstract

This package is used to extract the revision and file information provided by the *Subversion* revision control system (<http://subversion.tigris.org>).

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 several keywords that are expanded by the *Subversion update* command. The most informative keyword is `Id` which contains a lot of useful information. This information is made available through this package. Additionally, the package allows one to extract also the information from the more specific keywords, e.g., `$Author$` or `$Date$`.

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
```

See the *Subversion* documentation for more details.

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 `\svnToday` 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 `\svnToday`.

revrange For multi-file documents, display minimum and maximum revision. Every file of the document must either include a `\svnInfo` or a `\svnKeyword $Revision:$` statement. This information needs two runs of L^AT_EX to be correct.

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.

scrpage2 Use `scrpage2` instead of `fancyhdr`.

eso-foot Use `eso-pic` for showing a tiny info line at the bottom line of the paper.

long If used together with `fancy` / `fancyhdr` the date string is printed in the long format as `\svnToday` 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.

final Don't define the footline. If you want the *Subversion* in the final document, please use

```
\usepackage{draft}
```

draft If `nofancy` is not used, show a footline with *Subversion* information.

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

The default options are: *draft, today, long*. You may also configure the default fancy heading packages in the configuration file `svninfo.cfg`.

2.2 Commands

2.2.1 Defining the *Subversion* Id 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 prefaced with a ‘\$’ and completed with a ‘\$’ (note the final space or carriage return). 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.

2.2.2 Accessing the *Subversion* Id 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 revision number, of the <i>checked out</i> file. Default: <code>--revision--</code> .
<code>\svnInfoMinRevision</code>	• The minimum revision number of multi-file documents. Every file of the document must either include a <code>\svnInfo</code> or a <code>\svnKeyword \$Revision:\$</code> statement. This is information needs two runs of \LaTeX to be correct. of \LaTeX to be correct. Default: <code>--minrevision--</code> .
<code>\svnInfoMaxRevision</code>	• The maximum revision number of multi-file documents. Every file of the document must either include a <code>\svnInfo</code> or a <code>\svnKeyword \$Revision:\$</code> statement. This is information needs two runs of \LaTeX to be correct. Default: <code>--maxrevision--</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.

- `\svnInfoDay` • The day *DD* of `\svnInfoDate`. Default: the current day.
- `\svnInfoLongDate` • The date in the form of `\today` when the file was *checked out*. This is language depended. Default: the current date.
- `\svnId` • Mimics the behavior of the `Id` strings, i.e. it prints a string with a summary of the above described information.
- `\svnToday` • The date obtained from the *Subversion* information in the format `\today` is using.

3 Examples

`\svnInfo` not expanded, no colon

```
\svnInfo $Id$
      \svnInfoFile  -sourcefile-      \svnInfoYear  2006
      \svnInfoRevision -revision-      \svnInfoMonth  5
      \svnInfoMinRevision 12           \svnInfoDay    11
      \svnInfoMaxRevision 1168        \svnInfoLongDate May 11, 2006
      \svnInfoDate 2006-05-11        \svnToday     May 11, 2006
      \svnInfoTime -time-
      \svnInfoOwner -owner-
\svnId -sourcefile- -revision- -time- -owner-
```

`\svnInfo` not expanded, having colon

```
\svnInfo $Id:$
      \svnInfoFile  -sourcefile-      \svnInfoYear  2006
      \svnInfoRevision -revision-      \svnInfoMonth  5
      \svnInfoMinRevision 12           \svnInfoDay    11
      \svnInfoMaxRevision 1168        \svnInfoLongDate May 11, 2006
      \svnInfoDate 2006-05-11        \svnToday     May 11, 2006
      \svnInfoTime -time-
      \svnInfoOwner -owner-
\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
      \svnInfoMinRevision 12         \svnInfoDay    8
      \svnInfoMaxRevision 1168      \svnInfoLongDate April 8, 2005
      \svnInfoDate 2005-04-08      \svnToday     April 8, 2005
      \svnInfoTime 06:18:47Z
      \svnInfoOwner  brucker
\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
  \svnInfoMinRevision 12          \svnInfoDay    8
  \svnInfoMaxRevision 1168       \svnInfoLongDate April 8, 2005
  \svnInfoDate 2005-04-08       \svnToday     April 8, 2005
  \svnInfoTime 06:18:47Z
  \svnInfoOwner
\svnId svninfo.dtx 1168 2005-04-08 06:18:47Z

```

```

\svnInfo standard version with
in the owner
\svnInfo $Id: svninfo.dtx 1168 2005-04-08 06:18:47Z brucker $
  \svnInfoFile  svninfo.dtx      \svnInfoYear  2005
  \svnInfoRevision 1168          \svnInfoMonth  4
  \svnInfoMinRevision 12          \svnInfoDay    8
  \svnInfoMaxRevision 1168       \svnInfoLongDate April 8, 2005
  \svnInfoDate 2005-04-08       \svnToday     April 8, 2005
  \svnInfoTime 06:18:47Z
  \svnInfoOwner infsec“brucker
\svnId svninfo.dtx 1168 2005-04-08 06:18:47Z infsec“brucker

```

```

\svnInfo no leading $
\svnInfo Id: svninfo.dtx 12 2002-04-19 12:27:55 brucker $
  \svnInfoFile  svninfo.dtx      \svnInfoYear  2002
  \svnInfoRevision 12          \svnInfoMonth  4
  \svnInfoMinRevision 12          \svnInfoDay    19
  \svnInfoMaxRevision 1168       \svnInfoLongDate April 19, 2002
  \svnInfoDate 2002-04-19       \svnToday     April 19, 2002
  \svnInfoTime 12:27:55
  \svnInfoOwner brucker
\svnId svninfo.dtx 12 2002-04-19 12:27:55 brucker

```

4 The generic *Subversion* keyword interface

In addition to the already presented `\svnInfo` macro which is specially built for analyzing the *Subversion*`Id` information we also provide a generic interface via `\svnKeyword`. This interface can be used to extract information from the remaining keywords:

- `$Date$`: The date of the last commit with changes. This information can also be accessed using the keyword `$LastChangedDate$`.

- **\$Revision\$**: The revision of the last commit with changes. This information can also be accessed using the keyword **\$LastChangedRevision\$** or **\$Rev\$**.
- **\$Author\$**: The author of the last commit with changes. This information can also be accessed using the keyword **\$LastChangeBy\$**.
- **\$HeadURL\$**: The the full URL to the latest version of the file in the repository. This information can also be accessed using the keyword **\$URL\$**.

These keywords can be accessed using the `\svnKeyword` macro. This macro accepts a single argument that should be of the form `$(Keyword)$` (unexpanded) or `$(Keyword):_(value)_` (expanded), e.g.:

```
\svnKeyword $Author: brucker $
```

The `\svnKeyword` updates the corresponding *Subversion* Id information, e.g., our example updates `\svnInfoOwner`. In more detail:

- | | |
|---|---|
| <pre>\svnInfoDate \svnInfoMonth \svnInfoTime \svnInfoRevision \svnInfoOwner \svnInfoHeadURL</pre> | <ul style="list-style-type: none"> • <code>\svnKeyword \$Date:\$</code> updates the date and time informations, e.g., <code>\svnInfoDate</code>, <code>\svnInfoMonth</code>, or <code>\svnInfoTime</code>. • <code>\svnKeyword \$Revision:\$</code> updates <code>\svnInfoRevision</code>. • <code>\svnKeyword \$Author:\$</code> updates <code>\svnInfoOwner</code>. • <code>\svnKeyword \$HeadURL:\$</code> updates <code>\svnInfoHeadURL</code>. |
|---|---|

Note, the parser used by `\svnKeyword` is not that powerful than the one used by `\svnInfo`. Thus it is advisable to use `\svnKeywordId` for the `Id` keyword and `\svnKeyword` only for the keywords described in this section.

Further, the `\svnKeyword` macro does not reset all keyword definitions globally, i.e., you can combine the `$Revision$` of one file, with the `$Author$` of another file. Please take care of that!

5 Acknowledgements

This package is based on `rcsinfo` from Dr. Jürgen Vollmer. The `rcsinfo` package is distributed via the CTAN archives (`'macros/latex/contrib/rcsinfo'`).

The code for parsing generic *Subversion* keywords was taken from the `svn` packages written by Richard Lewis. The `svn` package is distributed via the CTAN archives (`'macros/latex/contrib/svn'`).

Further I want to thank all the people that reported bugs and ideas for improvements, often including patches: Michael Niedermair, Heiko Oberdiek, Bernd Raichle, Jörg Sommer, Arnout Standaert, Thomas Weber, and Uwe Ziegenhagen.

6 Copyright and License

Copyright (©) 1995 Dr. Jürgen Vollmer

Copyright (©) 2003–2006 Achim D. Brucker brucker@freiburg.linux.de

This program can be redistributed and/or modified under the terms of the L^AT_EX 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	and <code>scrpage</code> . Fixed problem with '.' in file names.	1
v0.2	General: Removed L ^A T _E X2HTML build-dependency.	1	v0.5	General: Removed support for L ^A T _E X2HTML(it is non-free software and also seems to be unmaintained) and added new command
v0.2.1	General: Added <code>svnId</code>	1		<code>svnKeyword</code> for defining arbitrary svn keywords (e.g. <i>Author</i> :).
v0.3	General: Added support for <code>\$Id:\$</code> keywords without owner information.	1	v0.6	General: Added <code>svnInfoMinRevision</code> and <code>svnInfoMaxRevision</code> together with the option <code>revrangle</code> . Also added support for
v0.4	General: Added new package options <code>draft</code> , <code>final</code> , <code>eso-foot</code> ,			in keywords.

Index

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.

S	
<code>\svnId</code>	4
<code>\svnInfo</code>	3
<code>\svnInfoDate</code>	3, 6
<code>\svnInfoDay</code>	4
<code>\svnInfoFile</code>	3
<code>\svnInfoHeadURL</code>	6
<code>\svnInfoLongDate</code>	4
<code>\svnInfoMaxRevision</code>	3
<code>\svnInfoMinRevision</code>	3
<code>\svnInfoMonth</code>	3, 6
<code>\svnInfoOwner</code>	3, 6
<code>\svnInfoRevision</code>	3, 6
<code>\svnInfoTime</code>	3, 6
<code>\svnInfoYear</code>	3
<code>\svnKeyword</code>	5
<code>\svnToday</code>	4