

The `rcsinfo` package

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Abstract

This package is used to extract the revision and file information provided by the *RCS* revision control system. Support for the `LATEX2HTML` conversion tool is provided¹

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* or *RCS*. This package assumes you are using the *RCS* 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. *RCS* offers therefore the `Id` keyword, which is expanded by the *RCS check out (co)* 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 date and time of the last *RCS co* command,
- the revision number,
- name of the user who has done this action,
- the status, and
- if the file is locked, the name of the locker.

¹`LATEX2HTML` is a conversion tool that allows documents written in `LATEX` to become part of the World Wide Web. It's written by *Nikos Drakos*, *Computer Based Learning Unit*, *University of Leeds*.

For each of these items a macro is defined. When *checking out* a file, the *RCS* keywords should be contained in the *checked out* source. If the user wishes, the `\today` macro is redefined, so that it returns the *RCS* date.

Many thanks to Thomas Müller, aka Howie, who made the first \TeX hack for cracking the `Id` string².

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

2 User Interface

2.1 Options

Options for this package are:

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

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

fancy We use the `fancyheadings` package to fill the footline with *RCS* information: filename, revision-number, status and date.

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

```
\pagestyle{fancyplain}
\lhead[\fancyplain{}{\leftmark}]{\fancyplain{}{\thepage}}
\rhead[\fancyplain{}{\thepage}]{\fancyplain{}{\rightmark}}
```

in the preamble.

fancyhdr We use the `fancyhdr` package to fill the footline with *RCS* information: filename, revision-number, status 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 `fancyheadings` / `fancyhdr` package is not loaded.

scrpage2 Use the `scrpage2` instead of `fancyhdr`. Thanks to Marcus Meyer `<marmeyer@uni-muenster.de>` for submitting the patch for this option.

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.

²Thanks to Colin Marquardt `<941etcm@gwfs.stud.fh-jena.de>` testing the support of the `fancyhdr` option.

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.

datehyphen Usually the RCS file date has the format `YYYY/MM/DD`. Sometimes it is `YYYY-MM-DD`. The `datehyphen` switches the package to accept this date format.

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

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

2.2 Commands

2.2.1 Defining the *RCS* information

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

```
\rcsInfo_ $Id$
\rcsInfo_ $Id:$
\rcsInfo_ $Id: file ,v rev_ YYYY/MM/DD hh:mm:ss owner_ stat_ lock_ $
\rcsInfo_ $Id: file ,v rev_ YYYY/MM/DD hh:mm:ss owner_ stat_ $
```

In the first two forms, *RCS* 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 *RCS check out* command, the `Id` string is expanded by *RCS* automatically.

To take effect, `\rcsInfo` must follow the `\begin{document}`. If you are using multiple files for a document, you could place `\rcsInfo` 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 *RCS* information

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

<code>\rcsInfoFile</code>	• The name of the source file, without the <i>RCS</i> suffix <code>,v</code> . Default: <code>--sourcefile--</code> .
<code>\rcsInfoRevision</code>	• The <i>RCS</i> revision number, of the <i>checked out</i> file. Default: <code>--revision--</code> .
<code>\rcsInfoDate</code>	• The date in the form <code>YYYY/MM/DD</code> , when the file was <i>checked out</i> . Default: the current date.
<code>\rcsInfoTime</code>	• The time, when the file was <i>checked out</i> . Default: <code>--time--</code> .
<code>\rcsInfoOwner</code>	• The user name of the file owner. Default: <code>--owner--</code> .

<code>\rcsInfoStatus</code>	• The status of the file, e.g. Exp. Default: <code>--status--</code> .
<code>\rcsInfoLocker</code>	• If the file is locked, the user name of the locker. If the file is not locked: <code>--not-locked--</code> . Default: <code>--locker--</code> .
<code>\rcsInfoYear</code>	• The year <i>YYYY</i> of <code>\rcsInfoDate</code> . Default: the current year.
<code>\rcsInfoMonth</code>	• The month <i>MM</i> of <code>\rcsInfoDate</code> . Default: the current month.
<code>\rcsInfoDay</code>	• The day <i>DD</i> of <code>\rcsInfoDate</code> . Default: the current day.
<code>\rcsInfoLongDate</code>	• The date in the form of <code>\today</code> when the file was <i>checked out</i> . This is language dependent. Default: the current date.

2.3 L^AT_EX2HTML

When converting a L^AT_EX document to HTML using the L^AT_EX2HTML tool, it's possible to use the RCS information in the HTML document too. This functionality is offered by the extension file `rcsinfo.perl` which should be placed into the directory `LATEX2HTML/styles`. For more information have a look at the documentation of L^AT_EX2HTML.

An example is given in the file `rcsinfo2html.tex`.

Notes

- Use at least version *99.1 release (March 30, 1999)* of L^AT_EX2HTML.
- You should `\usepackage{html}`.
- You must run L^AT_EX on the input file before running L^AT_EX2HTML.
- In order to make L^AT_EX2HTML read the `.aux` file, you must either:
 - call L^AT_EX2HTML with the option `-show_section_numbers` or
 - include the `.aux` file explicitly in your L^AT_EX-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 `\rcsInfo...` commands give no value.

- If using the L^AT_EX2HTML tool, only the last `\rcsInfo` takes effect, e.g. if using several input files each having the `\rcsInfo` 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 `rcsinfo` package, the date of the ADDRESS at the bottom of the HTML page is set to the RCS 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 \$rcsinfo::SetAddressProc. E.g. if you have a perl routine &my_address_field, then
`$rcsinfo::SetAddressProc = &my_address_field.`

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

\LaTeX -command	perl variable	Result for this file
<code>\today</code>	<code>\$today</code>	June 19, 2005
<code>\rcsInfoFile</code>	<code>\$rcsinfo::File</code>	-sourcefile-
<code>\rcsInfoOwner</code>	<code>\$rcsinfo::Owner</code>	-owner-
<code>\rcsInfoStatus</code>	<code>\$rcsinfo::Status</code>	-status-
<code>\rcsInfoLocker</code>	<code>\$rcsinfo::Locker</code>	-locker-
<code>\rcsInfoDate</code>	<code>\$rcsinfo::Date</code>	2005/06/19
<code>\rcsInfoLongDate</code>	<code>\$rcsinfo::LongDate</code>	June 19, 2005
<code>\rcsInfoDay</code>	<code>\$rcsinfo::Day</code>	19
<code>\rcsInfoMonth</code>	<code>\$rcsinfo::Month</code>	6
<code>\rcsInfoYear</code>	<code>\$rcsinfo::Year</code>	2005

3 Examples

`\rcsInfo` not expanded, no colon

```
\rcsInfo $Id$
  \rcsInfoFile -sourcefile-   \rcsInfoYear 2005
 \rcsInfoRevision -revision-   \rcsInfoMonth 6
  \rcsInfoDate 2005/06/19     \rcsInfoDay 19
  \rcsInfoTime -time-         \rcsInfoLongDate June 19, 2005
  \rcsInfoOwner -owner-       \today June 19, 2005
 \rcsInfoStatus -status-
 \rcsInfoLocker -locker-
```

`\rcsInfo` not expanded, having colon

```
\rcsInfo $Id:$
  \rcsInfoFile -sourcefile-   \rcsInfoYear 2005
 \rcsInfoRevision -revision-   \rcsInfoMonth 2
  \rcsInfoDate 2005/02/25     \rcsInfoDay 25
  \rcsInfoTime -time-         \rcsInfoLongDate February 25, 2005
  \rcsInfoOwner -owner-       \today February 25, 2005
 \rcsInfoStatus -status-
 \rcsInfoLocker -locker-
```

`\rcsInfo` without locker

```
\rcsInfo $Id: rcsinfo.dtx,v 1.7 2005/02/25 08:37:03 vollmer draft $
```

```

\rcsInfoFile rcsinfo.dtx      \rcsInfoYear 2005
\rcsInfoRevision 1.7          \rcsInfoMonth 2
\rcsInfoDate 2005/02/25      \rcsInfoDay 25
\rcsInfoTime 08:37:03        \rcsInfoLongDate February 25, 2005
\rcsInfoOwner vollmer        \today February 25, 2005
\rcsInfoStatus draft
\rcsInfoLocker -not-locked-

```

\rcsInfo with locker

```

\rcsInfo $Id: rcsinfo.dtx,v 1.7 2005/02/25 08:37:03 vollmer draft vollmer $
\rcsInfoFile rcsinfo.dtx      \rcsInfoYear 2005
\rcsInfoRevision 1.7          \rcsInfoMonth 2
\rcsInfoDate 2005/02/25      \rcsInfoDay 25
\rcsInfoTime 08:37:03        \rcsInfoLongDate February 25, 2005
\rcsInfoOwner vollmer        \today February 25, 2005
\rcsInfoStatus draft
\rcsInfoLocker vollmer

```

\rcsInfo no leading \$

```

\rcsInfo Id: rcsinfo.dtx,v 1.7 2005/02/25 08:37:03 vollmer draft vollmer $
\rcsInfoFile rcsinfo.dtx      \rcsInfoYear 2005
\rcsInfoRevision 1.7          \rcsInfoMonth 2
\rcsInfoDate 2005/02/25      \rcsInfoDay 25
\rcsInfoTime 08:37:03        \rcsInfoLongDate February 25, 2005
\rcsInfoOwner vollmer        \today February 25, 2005
\rcsInfoStatus draft
\rcsInfoLocker vollmer

```

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