Optionally prints author, artist, or other data on a line of the TOC / LOF.

Abstract
The tocdata package adds information such as an author or artist to an entry in the table of contents or list of figures or new float type. This new information is placed on a single line along with the caption and page number, as is commonly done in collections of literature, poetry, or art work.

tocdata works with the TOC / LOF formatting of the default \LaTeX{} classes, or with the titletoc or tocloft packages.
Contents

1 Introduction  
   Brian Dunn  4

2 Other methods  
   Various Authors  5

3 How to use toodata  
   Brian Dunn  6
   3.1 Basic setup ................................................. 6
      3.1.1 Preamble ........................................ 6
   3.2 Mid-level applications ................................. 7
      3.2.1 Font control in the \texttt{toc/lof} ................. 7
      3.2.2 Adding toc data per section ....................... 7
      3.2.3 Adding lof data per figure ......................... 7
   3.3 High-level user macros ................................. 8
      3.3.1 Sectioning commands with authors ................. 8
      3.3.2 Figure captions with author/artist names and additional text 8
      3.3.3 Formatting in sections and figures ............... 9
      3.3.4 Text justification .................................. 9

4 Implementation  
   Brian Dunn  11
   4.1 Requirements .............................................. 11
   4.2 toodata code ............................................ 12
   4.3 Standard \LaTeX\ patches ................................ 13
   4.4 \texttt{titletoc} support .................................. 14
   4.5 \texttt{tocloft} support .................................. 15
   4.6 User-level macros ....................................... 17
      4.6.1 User customization .................................. 17
      4.6.2 Chapters and sections ............................... 20
      4.6.3 Figure artist name alignment ....................... 21
      4.6.4 Figure author name alignment ...................... 22
      4.6.5 Figure artist text alignment ....................... 23
      4.6.6 Figure author text alignment ...................... 23
      4.6.7 Figure captions with artists and authors ....... 24

Change History and Index  
   makeindex  27

List of Figures

1 A Challenge ................................................. Hayashi Genbi  4
2 Astronometer .............................................. John Herschel  6
3 Diagram of a Sunbeam .................................... Isaac Newton  11
4 Pi ........................................................... Greek Alphabet 14
5 Sir Isaac Newton's Astrolabe ............................ Isaac Newton  17
6 Omega ....................................................... Greek Alphabet 29
List of Illustrations

1  The Crazy Engineer
   H. F. Farny 5
2  Quail
   Alexander Pope 10
3  Lacquer Go Board
   Katsushika Hokusai 26

List of Quotations

1  Go uses the most elemental materials and concepts
   Iwamoto Kaoru 4
2  Now this is not the end
   Winston Leonard Spencer Churchill 29
“Go uses the most elemental materials and concepts — line and circle, wood and stone, black and white — combining them with simple rules to generate subtle strategies and complex tactics that stagger the imagination.”

Iwamoto Kaoru — former Honinbo title holder

Quotation 1: Go uses the most elemental materials and concepts …

1 Introduction

— Brian Dunn

Anthologies may be printed with the author alongside each title in the table of contents. Many commonly-recommended methods for doing this with \LaTeX, such as those linked to in section 2, place the author above or below the title and page number, but seldom on the same line.

The \texttt{tocdata} package provides some basic infrastructure to help add some information to a line in the table of contents, after the title and just before the page number. This function works with the standard \LaTeX classes, or with either of the \texttt{titletoc} or \texttt{tocloft} packages.

Additionally, user-level macros are provided which add the author’s name to a chapter or section, and add the author’s or artist’s name and optional additional text to a figure. Author and artist names are also added to the index.

As examples of the use of these high-level macros, the major section headings of this documentation have the author’s name applied, and additional figures, illustrations, and quotes are supplied as well. The results are demonstrated in the table of contents, list of figures, list of illustrations, list of quotes, and the index.\footnote{Yes, I do recognize the absurdity of placing my own name in the index amongst the likes of Churchill, Genbi, Herschel, Kaoru, Newton …}
Illustration from *The Crazy Engineer*

*McGuffey’s Fifth Eclectic Reader*

Illustration 1: The Crazy Engineer

## 2 Other methods

— *Various Authors*

For other methods which place the author on a separate line from the title, see the following.

Note that these methods will be preferable if a larger amount of information is to be placed for each title, such that it usually would not all fit on one line in the table of contents.

http://tex.stackexchange.com/questions/47554/add-authors-name-automatically-while-building-toc


3 How to use tocdata

— Brian Dunn

This section shows how to use the tocdata package.

There are several layers of macros:

- The lowest level provides the basic infrastructure for inserting information into the table of contents, along with hooks for the titletoc and tocloft packages.
- The intermediate-level macro is \tocdata, which may be used to manually add a piece of data to a \chapter, \section, or \caption. \tocdatafont is also provided to control the appearance of this data in the TOC/LOF.
- At the highest level is a sample implementation of user-level macros which provides an easy way to create chapters, sections, and figures with associated authors and artists, along with supplemental information for figures, and automatic index entries.

3.1 Basic setup

3.1.1 Preamble

tocdata may be used with either the tocloft or titletoc package, or neither.

In the preamble, use:
If using \texttt{titletoc}: Note that the user should not use the \texttt{\dottedcontents} macro, as this is not patched for use with \texttt{tocdata}. Use \texttt{\titlecontents} instead, inserting the \texttt{\TD@usetocdata} macro as shown below.

3.2 Mid-level applications

Should the user only wish to add a bit of text into the toc/lof, the \texttt{tocdata} macro may be used just before the sectioning or caption command, as shown below.

3.2.1 Font control in the toc/lof

\begin{verbatim}
\newcommand{\tocdatafont}[1]{{\normalfont\textit{\small#1}}}
\end{verbatim}

You may change to other font options, such as:

\begin{verbatim}
\renewcommand{\tocdatafont}[1]{{\normalfont\textsc{\footnotesize#1}}}
\end{verbatim}

3.2.2 Adding toc data per section

\begin{verbatim}
\tocdata \{\texttt{list extension}\} \{\texttt{text}\}
\end{verbatim}

Before each \texttt{\chapter} or \texttt{\section} which is to have an author or other data:

\begin{verbatim}
\tocdata\{toc\}\{Author's Name\}
\chapter\{Chapter Title\} \texttt{-or-} \section\{Section Title\}
\end{verbatim}

3.2.3 Adding lof data per figure

Before each \texttt{\caption} which is to have an artist or author:
You may wish to print the artist’s name in the figure as well.

### 3.3 High-level user macros

Additional macros are given in section 4.6. These are user-level sectioning and captioning commands which add the names to the toc and lof, and also add the artist’s name and optional additional text to a figure or other float (as in Figure 2), and also add the names to the index. An optional prefix and suffix may be attached to the names (as in Figure 2), and these will be printed at the section heading or caption, but not in the toc / lof or in the index.

These macros may be ignored or modified as needed.

#### 3.3.1 Sectioning commands with authors

To use these macros, do not use `\tocdata` as shown above, but instead use, in the `\partauthor`, `\chapterauthor`, `\sectionauthor`, `\subsectionauthor` place of `\part`:

`\partauthor[list entry]{Title}[Prefix]{First}{Last}[Suffix]`

Likewise for chapters, sections, and subsections.

#### 3.3.2 Figure captions with author/artist names and additional text

For figures, in the place of `\caption`, use:

`\captionartist[list entry]{Title}[Text][Prefix]{First}{Last}[Suffix]`

-or-

`\captionauthor[list entry]{Title}[Text][Prefix]{First}{Last}[Suffix]`

By default, `\captionartist` prints the artist centered below the figure, and `\captionauthor` prints the author below and flush right, without an extra vertical skip.

If you are using the optional prefix, the optional text must also be given, even if it is empty. For example, use:

`\captionartist{Title}[[Sir]{Isaac}{Newton}`
(If only one optional argument is given before the first name, it will be interpreted as the optional text, not as the optional prefix.)

\captionartist* \captionauthor*

If you are using the \caption package or another package which supports \caption*, you may use \captionartist* and \captionauthor* with \texttt{tocdata}. The artist/author and supplemental text will still be printed below the figure, and an unnumbered caption will be generated, even though a \texttt{LOF} entry will not be made.

\textbf{caption package}

Should you mistakenly use \captionartist* or \captionauthor* without the \caption package, expect to get a caption with a visible star in it. To fix the problem:

\begin{verbatim}
\usepackage{caption}
\end{verbatim}

3.3.3 Formatting in sections and figures

To change the formatting of the author names printed after each chapter or section, or to remove them entirely, use these macros, as described in section 4.6 on page 17.

\texttt{tocdatachapterprint} and \texttt{tocdatasectionprint} by default depend on \texttt{tocdatapartprint}, so if it is redefined the others will have to be redefined as well. Make these macros robust!

To change the formatting of a figure's artist's name or author's name and optional text, use these macros, also described in section 4.6.

3.3.4 Text justification

The text alignment of artists, artists' additional text, authors, and authors' additional text may be set using these macros. All following figures use the selected justification until it is changed to another.
ALEXANDER POPE

Illustration from About Quail
McGuffey’s Fifth Eclectic Reader

Illustration 2: Quail
4 Implementation

— Brian Dunn

Below, the tocdata code section contains the low-level code used to place the data into the table of contents and list of figures, as well as the code to control the font used while doing so.

Next are sections used to support the default \LaTeX classes, as well as titletoc and tocloft.

Finally, the high-level macros are provided. The user may ignore or redefine these as desired.

4.1 Requirements

\begin{verbatim}
\RequirePackage{xparse}
\RequirePackage{etoolbox}
\RequirePackage{xpatch}
\end{verbatim}

Require that titletoc and tocloft be loaded after tocdata, so that tocdata can patch the \LaTeX core definitions first.

\begin{verbatim}
4@ifpackageloaded(titletoc){
5 \PackageError{tocdata}{%
6 (%
7 Load titletoc after tocdata%
8 )}
9 (%
10 Move \protect\usepackage(titletoc) after \protect\usepackage(tocdata).%}
11 )}
12 }{}
\end{verbatim}
\@ifpackageloaded{tocloft}{%
  \PackageError{tocdata}{% Load tocloft after tocdata%}
}{}
%
\@ifpackageloaded{tocloft}{%
  Move \protect\usepackage{tocloft} after \protect\usepackage{tocdata}.%}
}{}

Prevent the use of both titletoc and tocloft.

\AtBeginDocument{
  \@ifpackageloaded{titletoc}{%
    \@ifpackageloaded{tocloft}{%
      \PackageError{tocdata}{% Both titletoc and tocloft are being used.\MessageBreak Load only one%}
    }
  }
  \PackageError{tocdata}{% The tocdata package may use the default LaTeX formatting,\MessageBreak or either one of titletoc or tocloft.}
}{}
}

\subsection{tocdata code}

\TD@thistocdata  
Storage for the data to be added to the end of the toc entry:

\newcommand{\TD@thistocdata}{}

\settocdata  
Written to the .toc or .lof file, assigns \TD@thistocdata:

\newcommand{\settocdata}[1]{\renewcommand{\TD@thistocdata}[1]{}}

\tocdata{⟨toc or lof⟩}{⟨text⟩}

To be called by a higher-level macro to assign data to a .toc or .lof file:

\newcommand{\tocdata}[2][%\@bsphack\addtocontents[#1]{\protect\settocdata[#2]}\@esphack%]

\tocdatafont{⟨text⟩}
tocdata

Controls the font for the toc data.
\renewcommand{\tocdatafont}[1]{\textit{#1}}, etc.
\newcommand{\tocdatafont}[1]{{\normalfont\textit{\small#1}}}

\TD@usetocdata  To be inserted into low-level toc-generation code where the data should appear.

See the example using titletoc, below.

Prints the data, then clears the storage so it is not printed again.
\newcommand{\TD@usetocdata}{% \tocdatafont{\TD@thistocdata} \global\def\TD@thistocdata{} %}

4.3 Standard \LaTeX{} patches

\@dottedtocline  Patched for tocdata.
\xpatchcmd{\@dottedtocline}{\hfill\nobreak} \hfill\TD@usetocdata\nobreak{} %
\PackageWarningNoLine{tocdata}{Could not patch \LaTeX{} core \protect\@dottedtocline.\MessageBreak
Authors may not appear in TOC, LOF}

\l@part  Patched for tocdata.
\xpatchcmd{\l@part}{\hfil} \hfil\TD@usetocdata \%}
\PackageWarningNoLine{tocdata}{Could not patch \LaTeX{} core \protect\l@part.\MessageBreak
Authors may not appear in TOC parts}

\l@chapter  Patched for tocdata.
If \texttt{titletoc} is loaded, patch macros for its use:

\begin{verbatim}
\AtBeginDocument{
  @ifpackageloaded{titletoc}{

\titlecontents
A set of \texttt{titletoc} commands which set up the formatting of the \texttt{toc} entries. These are patched \texttt{\AtBeginDocument}, after user customizations in the preamble, to include the \texttt{tocdata} just after the leader (\texttt{titlerule*}), and just before the page number.

These macros also include spacing commands, and thus may need to be redefined by the user.
Note that the user should not use the \dottedcontents macro, as this is not patched for use with tocdata. Use \titlecontents instead, inserting the \TD@usetocdata macro as shown below.

The default macros are patched via the \LaTeX{} core. The following are only necessary if \titlecontents was used. Since every combination is tried, but will only succeed if \titlecontents was used, no warnings are printed if the patch fails.

\begin{verbatim}
\newcommand*{\TD@titletoc@patch}[1]{%
\expandafter\xpatchcmd\csname ttl@savel@#1\endcsname
{\nobreak\hfil\nobreak}
{\nobreak\hfil\TD@usetocdata\nobreak}
{1}
{1}
\expandafter\xpatchcmd\csname l@#1\endcsname
{\contentspage}
{\TD@usetocdata\contentspage}
{1}
{1}
}
\TD@titletoc@patch{part}
\@ifundefined{chapter}{}{\TD@titletoc@patch{chapter}}
\TD@titletoc@patch{section}
\TD@titletoc@patch{subsection}
\TD@titletoc@patch{subsubsection}
\TD@titletoc@patch{paragraph}
\TD@titletoc@patch{subparagraph}
\TD@titletoc@patch{figure}
\TD@titletoc@patch{table}
%
% end of \titletoc loaded
% titeloc is not loaded
% end of if@package loaded{titeloc}
% end of \AtBeginDocument
\end{verbatim}

\subsection{tocloft support}

If tocloft is loaded, the following patches are applied:

\begin{verbatim}
\AtBeginDocument{
\@ifpackageloaded{tocloft}
{
\cftXleader
A set of commands used by \tocloft to typeset the leader between the title and the page number. These are patched to print the tocdata just after the leader.

\end{verbatim}
\if@cfthaschapter
    \appto{\cftchapleader}{\TD@usetocdata}
\fi
\appto{\cftsecleader}{\TD@usetocdata}
\appto{\cftsubsecleader}{\TD@usetocdata}
\appto{\cftsubsubsecleader}{\TD@usetocdata}
\appto{\cftparaleader}{\TD@usetocdata}
\appto{\cftsubparaleader}{\TD@usetocdata}
\appto{\cftfigleader}{\TD@usetocdata}
\appto{\cfttableader}{\TD@usetocdata}
\appto{\cftsubfigleader}{\TD@usetocdata}
\appto{\cftsubtableader}{\TD@usetocdata}

% end of tocloft patches
% tocloft not loaded
% \AtBeginDocument
4.6 User-level macros

Example user-level macros follow.

These macros are in addition to the standard sectioning and caption commands, adding first and last names for the table of contents and list of figures. For parts, chapters, sections, and subsections, the author’s name with optional prefix and suffix are also added below the title. For figures, \captionauthor also prints the figure’s artist’s name with optional prefix and suffix just below the figure.

The regular sectioning and caption commands may still be used for anything which does not have an author/artist name.

4.6.1 User customization

TD@optionalname \{name\}


\newcommand{\TD@optionalname}[1]{\ifblank{#1}{}{(\#1\textendash)}\}

\tocdata{\langle prefix\rangle \langle first\rangle \langle last\rangle \langle suffix\rangle}

User-redefinable macro to print the author's name underneath the part title.

\newrobustcmd{\tocdata{\langle prefix\rangle \langle first\rangle \langle last\rangle \langle suffix\rangle}}[4]

\tocdatachapter{\langle prefix\rangle \langle first\rangle \langle last\rangle \langle suffix\rangle}

User-redefinable macro to print the author's name underneath the chapter title.

\let\tocdatachapter\tocdatapart

\tocdatasubsection{\langle prefix\rangle \langle first\rangle \langle last\rangle \langle suffix\rangle}

User-redefinable macro to print the author's name underneath the subsection title.
User-redefinable macro to print the artist's name underneath the figure.

\newcommand{\tocdataartistprint}{%\par\smallskip\TD@artistauthorprint{artist} %}

To remove the artist's name, redefine this as a null function taking four arguments:

\renewcommand{\tocdataartistprint}[4]{%}

User-redefinable macro to print the author's name underneath the figure.

\newcommand{\tocdataauthorprint}{%\par\smallskip\TD@artistauthorprint{author} %}

### \TD@artistauthortextprint

User-redefinable macro to print the text.
User-redefinable macro to print the optional text below the artist's name.

\newcommand{\tocdataartisttextprint}{\TD@artistauthortextprint{artist}}

User-redefinable macro to print the optional text below the author's name.

\newcommand{\tocdataauthortextprint}{\TD@artistauthortextprint{author}}

### 4.6.2 Chapters and sections

\TD@sectionauthor

The starred version does not create a toc entry, so it is simply used as-is:

\IfBooleanTF{#2}{% star:
  \csuse{#1}*{#4\nopagebreak\csuse{tocdata#1print}{#5}{#6}{#7}{#8}}%}

The un-starred version appears in the toc, so add the author's name:

\IfValueTF{#3}{% no star:
  \csuse{#1}{#4\nopagebreak\csuse{tocdata#1print}{#5}{#6}{#7}{#8}%}

Create the section depending on the optional name:

\IfValueTF{#3}{\csuse{#1}[#3]{#4\nopagebreak\csuse{tocdata#1print}{#5}{#6}{#7}{#8}}%}

Create an index entry depending on whether there is a first name:
4.6.3 Figure artist name alignment

\TD@artistalign Sets text alignment for the artist’s name.
\newcommand{\TD@artistalign}{\centering}

\tdartistjustify Sets justified text alignment for the artist’s name.
\newcommand{\tdartistjustify}{\renewcommand{\TD@artistalign}{}\centering}

\tdartistcenter Sets centered text alignment for the artist’s name.
\newcommand{\tdartistcenter}{\renewcommand{\TD@artistalign}{\centering}}
\tdartistleft \newcommand{\tdartistleft}{\%
\renewcommand{\TD@artistalign}{\raggedright}%
}\}

Sets left text alignment for the artist's name.

\tdartistright \newcommand{\tdartistright}{\%
\renewcommand{\TD@artistalign}{\raggedleft}%
}\}

Sets right text alignment for the artist's name.

4.6.4 Figure author name alignment

\TD@authoralign \newcommand{\TD@authoralign}{\raggedleft}

Sets text alignment for the author's name.

\tdauthorjustify \newcommand{\tdauthorjustify}{\%
\renewcommand{\TD@authoralign}{}}%
\}

Sets justified text alignment for the author's name.

\tdauthorcenter \newcommand{\tdauthorcenter}{\%
\renewcommand{\TD@authoralign}{\centering}%
\}

Sets centered text alignment for the author's name.

\tdauthorleft \newcommand{\tdauthorleft}{\%
\renewcommand{\TD@authoralign}{\raggedright}%
\}

Sets left text alignment for the author's name.

\tdauthorright \newcommand{\tdauthorright}{\%
\renewcommand{\TD@authoralign}{\raggedleft}%
\}

Sets right text alignment for the author's name.
4.6.5 Figure artist text alignment

\TD@artisttextalign Sets text alignment in the optional text.

238 \newcommand{\TD@artisttextalign}{\centering}

\tdartisttextjustify Sets justified text alignment in the optional text.

239 \newcommand{\tdartisttextjustify}{%
240 \renewcommand{\TD@artisttextalign}{}
241 }\

\tdartisttextcenter Sets centered text alignment in the optional text.

242 \newcommand{\tdartisttextcenter}{%
243 \renewcommand{\TD@artisttextalign}{\centering}
244 }\

\tdartisttextleft Sets left text alignment in the optional text.

245 \newcommand{\tdartisttextleft}{%
246 \renewcommand{\TD@artisttextalign}{\raggedright}
247 }\

\tdartisttextright Sets right text alignment in the optional text.

248 \newcommand{\tdartisttextright}{%
249 \renewcommand{\TD@artisttextalign}{\raggedleft}
250 }\

4.6.6 Figure author text alignment

\TD@authortextalign Sets text alignment in the optional text.

251 \newcommand{\TD@authortextalign}{\centering}

\tdauthortextjustify Sets justified text alignment in the optional text.

252 \newcommand{\tdauthortextjustify}{%
253 \renewcommand{\TD@authortextalign}{}
254 }\}
\tdauthortextcenter \Sets centered text alignment in the optional text.
\begin{verbatim}
\newcommand{\tdauthortextcenter}{%
  \renewcommand{\TD@authortextalign}{\centering}%
}\end{verbatim}

\tdauthortextleft \Sets left text alignment in the optional text.
\begin{verbatim}
\newcommand{\tdauthortextleft}{%
  \renewcommand{\TD@authortextalign}{\raggedright}%
}\end{verbatim}

\tdauthortextright \Sets right text alignment in the optional text.
\begin{verbatim}
\newcommand{\tdauthortextright}{%
  \renewcommand{\TD@authortextalign}{\raggedleft}%
}\end{verbatim}

4.6.7 Figure captions with artists and authors

These macros add optional supplemental text, which will be printed below the artist's name and above the caption, presuming that the caption is generated below the figure.

⚠️ Optional arguments

If using the optional prefix, the optional text must also be given, even if it is empty. For example, use:
\captionartist{Title}[]\text{Sir}\{Isaac\}{Newton}

If only one optional argument is given before the first name, it will be interpreted as the optional text, not as the optional prefix.

\TD@captionartistauthor

\begin{verbatim}
\{\langle 1: "artist" or "author"\rangle \* [(\langle 3: LOF entry\rangle) \{\langle 4: title\rangle \} \{\langle 5: supplemental text\rangle \} \{\langle 6: prefix\rangle \} \{\langle 7: first\rangle \}
\langle 8: last\rangle \} \{\langle 9: suffix\rangle \}]
\end{verbatim}

Factored from \captionartist and \captionauthor, below.

\begin{verbatim}
\NewDocumentCommand{\TD@captionartistauthor}{m s o m +O{}}{%
  \csuse{tocdata#1print}{#6}{#7}{#8}{#9}\%
}\end{verbatim}

Print the artist's name next to the figure:
\\begin{verbatim}
  \csuse{tocdata#1print}{#6}{#7}{#8}{#9}\%
}\end{verbatim}

If supplemental text is provided, print it below the author:
Remove any existing vertical space and only use \caption's built-in spacing:
\unskip

If starred, there should be no toc entry, so do not add tocdata. Use \caption* from the caption or similar packages.
\IfBooleanTF{#2}{% starred
\IfValueTF{#3}{\caption*[#3]{#4}}{\caption*{#4}}%}

No starred, so remember the artist's name for inclusion in the LOF:
\tocdata{\csuse{ext@captype}(#7 #8)}

Create the caption depending on the optional name:
\IfValueTF{#3}{\caption[#3]{#4}}{\caption{#4}}%

Create an index entry depending on whether there is a first name:
\ifblank{#7}{\index{#8}}{\index{#8, #7}}

\captionartist*\caption{\TD@captionartistauthor{artist}}
\captionauthor*\caption{\TD@captionartistauthor{author}}
From the series *Uma Zukushi*.

Illustration 3: Lacquer Go Board
Change History

v0.10
  General: 2016/05/05 Initial ver. .......... 1

v0.11
  General: 2016/07/11 ..................... 1
  Minor docs improvements in spelling, grammar, formatting .......... 1

v0.12
  \TD@artistauthor: Added text alignment. .......... 19
  Improved spacing. ............... 19
  \TD@captionartistauthor: Allows paragraphs in add'l text. ........ 24
  Expands first name before index check. .......... 24
  \TD@sectionauthor: Expands first name before index check. ........ 20
  \tdartist justify: etc. Added name alignment. .......... 21
  \tdartisttext justify: etc. Added text alignment. .......... 23
  \tdauthor justify: etc. Added name alignment. .......... 22
  \tdauthortext justify: etc. Added text alignment. .......... 23
  \tocdataartistprint: Added name alignment. .......... 19
  Improved spacing. .......... 19
  \tocdatapartprint: Improved spacing. .......... 18
  General: 2016/12/02 ............... 1
  Added requirement for xifthen ... 11

v1.00
  General: 2019/01/12 ..................... 1
  Improved source formatting. .......... 1
  Remove xifthen dependency. .......... 11

v2.00
  \TD@artistauthorprint: Improved font control. .......... 19
  \TD@artistauthor: Improved font control. .......... 19
  Replaced \tocdatafigtextprint with \tocdataartistprint and \tocdataauthorprint. 19
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.

<table>
<thead>
<tr>
<th>Symbols</th>
<th>\settocdata</th>
<th>38</th>
</tr>
</thead>
<tbody>
<tr>
<td>\dottedtocline</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| \settocdata       |                        | 38 |

<table>
<thead>
<tr>
<th>A</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Alphabet, Greek</td>
<td></td>
<td>14</td>
</tr>
<tr>
<td>Authors, Various</td>
<td></td>
<td>29</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>\captionartist</td>
<td></td>
<td>8</td>
</tr>
<tr>
<td>\captionauthor*</td>
<td></td>
<td>9</td>
</tr>
<tr>
<td>\captionauthor*</td>
<td></td>
<td>8</td>
</tr>
<tr>
<td>\cftXleader</td>
<td></td>
<td>15</td>
</tr>
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| \TD@thistocdata     |                         | 37  |
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"Now this is not the end. It is not even the beginning of the end. But it is, perhaps, the end of the beginning."

Sir Winston Leonard Spencer Churchill

(Full name used for demonstration purposes.)

Quotation 2: Now this is not the end …

Ω

Greek Alphabet

Figure 6: Omega