

# dvdcoll.cls v1.1a\*

## A class for typesetting DVD archives<sup>†</sup>

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### Abstract

Having lost the overview of my DVD archives, I simply could not remember if I already recorded the documentary running on TV that day. I chose to recreate the index using L<sup>A</sup>T<sub>E</sub>X: the design aim was a hyperlinked and fully searchable PDF-document listing my DVDs with all titles, contents<sup>1</sup>, lengths and so on. Further requirements were support for seasons of tv series and a list with all faulty or missing programs for rerecording. The dvdcoll class supports all these requirements.

dvdcoll.cls follows the structure <number><title><length>. As a result, the class is not limited to DVDs – you can of course typeset archives of CD-ROMs, Audio-CDs and so on.

### Required classes und packages

the classes of the KOMA-Script bundle (v2.96), as well as hyperref (v6.77m), xkeyval, ifthen, tabularx, booktabs, array, multicol, ragged2e, ifpdf, marginnote and the files and packages they are loading.
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<sup>1</sup>works only if compiled with pdf<sub>l</sub>atex. It's highly recommended to use dvdcoll.cls with pdf<sub>l</sub>atex and a recent version of pdf readers, e.g. Adobe Reader 7

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# 1 Simple Example

Take a first look to the structure of a file using `dvdcoll.cls`

```
\documentclass[pagenumbers=yes]{dvdcoll}

\usepackage[german]{babel}
\usepackage[latin1]{inputenc}
\usepackage[T1]{fontenc}
\usepackage{textcomp}
\usepackage{bera}

\begin{document}
\tableofcontents

\DVDPart{Fernsehserien}
\DVDSeries{Jake 2.0}

\begin{Dvd}{}{}
  \DVDTitle{Geburt eines Helden}{40:16}
  \DVDTitle{Erste Schritte}{39:45}
  \DVDTitle{Die China-Connection}{40:14}
  \DVDTitle{Die Waffen und das Mädchen}{38:29}
\end{Dvd}

\begin{Dvd}{}{}
  \DVDTitle{Die Akte Dumont}{38:50}
  \DVDTitle{Der Feind in meinem Körper}{39:52}
  \DVDTitle{Jerry 2.0}{39:53}
  \DVDTitle{Der Mittelsmann}{39:21}
\end{Dvd}
\end{document}
```

You will find a larger example (more details, commands, options, . . . ) in `dcexample.<tex/pdf>`.

As you can see, `dvdcoll.cls` is quite easy to use!

## 2 Class options

The class options will be described will all possible values. The respective default value will be typeset bold.

### 2.1 `dvdlabel`

`dvdlabel` =  $\langle \mathbf{wide} \rangle, \langle narrow \rangle$

By using the option  $\langle wide \rangle$ , the given  $\langle label \rangle$  in the environment `Dvd` will be set on the right side of the table.  $\langle narrow \rangle$  will typeset  $\langle label \rangle$  in short distance after the title.

## 2.2 dvdskip

dvdskip =  $\langle small \rangle$ ,  $\langle \mathbf{medium} \rangle$ ,  $\langle big \rangle$

The option dvdskip will influence the vertical spacing after each table (environment Dvd). Just play around with the possible values.

## 2.3 language

language =  $\langle \mathbf{babel} \rangle$ , any language

dvdcoll.cls is designed to deal with several languages. The following table will give an overview over the supported languages at the moment. Feel free to provide others.

languages <sup>2</sup>	possible options <sup>3</sup>
english	$\langle english \rangle$ , $\langle canadian \rangle$ , $\langle UKenglish \rangle$ , $\langle british \rangle$ , $\langle USenglish \rangle$ , $\langle american \rangle$ , $\langle australian \rangle$ , $\langle newzealand \rangle$
french	$\langle french \rangle$ , $\langle frenchb \rangle$ , $\langle francais \rangle$ , $\langle acadian \rangle$ , $\langle canadien \rangle$
german	$\langle german \rangle$ , $\langle germanb \rangle$ , $\langle ngerman \rangle$ , $\langle austrian \rangle$ , $\langle naustrian \rangle$
italian	$\langle italian \rangle$
polish <sup>4</sup>	$\langle polish \rangle$
portuguese	$\langle portugese \rangle$ , $\langle portuguese \rangle$ , $\langle brazilian \rangle$ , $\langle brazil \rangle$
spanish	$\langle spanish \rangle$

The evaluation of the option language will follow these priorities:

1. explicit given value
2. evaluation of the option given to the package babel
3. using option  $\langle english \rangle$  by default

So, if you don't specify any language, dvdcoll.cls will try to evaluate the option given to babel. If all that fails, the option  $\langle english \rangle$  will be used!

## 2.4 pagenumbers

pagenumbers =  $\langle \mathbf{yes} \rangle$ ,  $\langle no \rangle$

Of course,  $\langle yes \rangle$  will lead to pages with numbers, where as  $\langle no \rangle$  will give no pagenumbers.

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<sup>2</sup>files contributed by François Pétiard (french), Enrico Gregorio (italian), Daniel Mróz (polish), Pedro Quaresma (portuguese), Michael Wiedmann (spanish)

<sup>3</sup>At the moment there are no differences between these options. They are provided for combatibility with babel

<sup>4</sup>needs pdfencoding =  $\langle unicode \rangle$  (see: 2.6)

## 2.5 heading

heading =  $\langle \mathbf{nonumber} \rangle$ ,  $\langle number \rangle$

$\langle nonumber \rangle$  will give unnumbered headings, while  $\langle number \rangle$  will give numbered headings.

Tip! If you want to produce a printversion, you should consider the combination of `pagenumbers =  $\langle no \rangle$`  and `heading =  $\langle nonumber \rangle$` . You just have to print the new pages and insert them into your paper mountain.

## 2.6 pdfencoding

pdfencoding =  $\langle \mathbf{pdfdocencoding} \rangle$ ,  $\langle unicode \rangle$

To secure the correct output in the bookmarks and pdf annotations, a new class option `pdfencoding` was introduced in `dvdcoll.cls` v1.1. You can choose between `PDFDocEncoding` (which is similar to `latin1`) and `Unicode`. For the conversion to the respective encoding, `dvdcoll.cls` is using the command `\pdfstringdef` from the package `hyperref`. Unfortunately, this encoding is not trivial and the algorithm that `\pdfstringdef` is using has a nonlinear complexity. The longer the text input – especially in descriptions – the longer takes the run time of the algorithm in overproportional manner. Therefore `dvdcoll.cls` has a simplified – but run time optimized – version of this command, which unfortunately only works with `PDFDocEncoding`. Whenever possible, `dvdcoll.cls` should be used with `PDFDocEncoding`. Unfortunately, this is just possible for languages, which use only characters contained in `PDFDocEncoding`. On the whole, these are the languages of western Europe. That's why the support of polish is just possible with the option  $\langle unicode \rangle$ . Because of the problems described above with `Unicode`, it's recommended to keep the description texts as short as possible, which leads of course to a conflict between text length and usability. Finally, i would like to point to the fact, that there is no relation between input encoding (like `utf8`) and the option  $\langle unicode \rangle$ , i.e. it's possible to compile `unicode`-encoded files with the option  $\langle pdfdocencoding \rangle$ . But one is confined to the characters contained in `PDFDocEncoding`.

# 3 Environments

## 3.1 Dvd

```
\begin{Dvd}{ $\langle title \rangle$ }{ $\langle label \rangle$ }  
...  
\end{Dvd}
```

Now we arrived at the central part of `dvdcoll.cls`. The environment `Dvd` is used to define the DVDs.

With the argument  $\langle title \rangle$  you can specify a title, but you don't have to do. If  $\langle title \rangle$  is left empty, `dvdcoll.cls` will create titles automatically by the series - specified in `\DvdSeries` (see: 4.1.2) - followed by a counter, which is reset by every new dvd series. There are some other commands you can use in

{*title*}, if you wish to have more influence in the process of setting the title automatically. (see: 4.2.4, 4.2.5 and 4.2.6)

{*label*} can be used to set the label you are using in your archives, e.g. DVD12. By default the label will be typeset bold enclosed by brackets<sup>5</sup>. You can change that by redefining `\dc@print@dvdlabel`.

Keep in mind that you can influence the typesetting with the class option `dvdlabel`. (see: 2.1)

There is also the possibility of automatic creation of labels with the command options of `\DvdSeries`. (see: 4.1.2)

## 4 Commands

### 4.1 Sectioning commands

The following commands can be used for structuring your archives.

#### 4.1.1 `\DvdPart`

`\DvdPart{part}` You can split up your archives into different parts like tv series, documentaries and so on. You just have to use `\DvdPart`.

#### 4.1.2 `\DvdSeries`

`\DvdSeries`  
[*dvdnumbering*],*titlenumbering*],  
(*labelbase*),(*labelbaselength*),  
(*labelbaseprefix*),(*labelbasesuffix*)]  
{*series*}

Additionally, you can specify a dvd series, e.g. Star Trek - The Next Generation. Keep in mind that {*series*} can be used in automatic titling! (see: 3.1)

The optional arguments [*dvdnumbering*] and [*titlenumbering*] can both influence the style of numbering in Dvd and the `\DvdTitle` commands with the values ***normal*** and *season*. In the case of *season*, the Dvd counter will be typeset e.g. 'J.A.G. 2.1', where as the titles will be typeset '01x15 Hemlock'. You can change the output format of the counters by redefining `\dc@print@counter`.

Setting [*dvdnumbering*] with the value *season* will insert a new level 'Season' into the bookmarks and group the DVDs into the season.

The [*labelbase*]\* command options can be used for automatic label creation. These labels will have the following format:

$$[*labelbaseprefix*][*labelbase*][*labelbasesuffix*]$$

where [*labelbase*] will have the length of [*labelbaselength*] digits, e.g. RW01, RW02, ... (labelbase=1, labelbaselength=2 (default: 4), labelbaseprefix=RW). If you want to produce a DVD list with `\listofdvs` (see: 4.4.3) it is advisable to create labels with the same length all over your document to avoid a ugly looking list.

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<sup>5</sup>Of course, the brackets are not typeset, if no label is specified.

## 4.2 DVD title commands

### 4.2.1 `\DvdTitle`

`\DvdTitle{<title>}{<length>}` `\DvdTitle` is used to specify the respective titles (`{<title>}`) on your dvd (within environment `Dvd`).  
`{<length>}` is used to typeset the length (e.g. 43:12) and in general followed by the addition **min**. You can change that by using `\SetThirdColumnAddition`. (see: 4.4.2)  
You can use the argument `{<length>}` to mark the title as faulty or missing. Additionally, the title will be included in the LFR (List of faulty recordings). (see: 4.4.5) All supported languages (see: 2.3) at the moment use the letter **F** as marker.

### 4.2.2 `\DvdTitleWithDescription`

`\DvdTitleWithDescription  
{<title>}{<length>}` `\DvdTitleWithDescription` is equivalent to `\DvdTitle` apart from the fact, that `{<title>}` will have a link to a pdf annotation with a description of the recording. (see: 4.2.3)

### 4.2.3 `\Description`

`\Description{<description>}` You have to use `\Description` before `\DvdTitleWithDescription` (see: 4.2.2) to specify the `{<description>}`, which will be typeset into a pdf annotation.

### 4.2.4 `\AutoTitle`

`\AutoTitle` If you want to add an extra title to the automatically generated dvd titles in `Dvd`, you can use `\AutoTitle` in the argument `{<title>}` and simply add your extra title.

### 4.2.5 `\DvdCounter`

`\DvdCounter` `\DvdCounter` will provide the dvd counter with correct spacing, if you want to leave the process of automatic titles.

### 4.2.6 `\DvdSpace`

`\DvdSpace` `\DvdSpace` can be used to get the same space, that is used within the process of automatic titling. By default, it is set to **0.7em**. You can change that by using `\SetCounterSpace`. (see: 4.3.1)

## 4.3 Spaces, lengths, widths, ...

### 4.3.1 `\SetCounterSpace`

`\SetCounterSpace  
{<width>}` `\SetCounterSpace` can be used to change the standard space used within the process of automatic titling, which is by default set to **0.7em**.

### 4.3.2 `\SetTOCSecIndent`

`\SetTOCSecIndent` With `\SetTOCSecIndent` you can set the indent of the entries for dvds in the TOC.  
`{\indent}`

### 4.3.3 `\SetTOCNumwidth`

`\SetTOCNumwidth` `\SetTOCNumwidth` can be used to adjust the width of the box in the TOC (Table of Contents) for the numbers of the parts and series. By default, there is place for two digits. (see: `dcexample.<tex/pdf>`)  
`{\numwidth}`

### 4.3.4 `\SetLFRSecNumwidth`

`\SetLFRSecNumwidth` `\SetLFRSecNumwidth` can be used to adjust the width of the box for the numbers in the LFR. (see: 4.4.5 and `dcexample.<tex/pdf>`)  
`{\numwidth}`

## 4.4 Misc. commands

### 4.4.1 `\SetSeason`

`\SetSeason[\seasontitle]{\season}` With `\SetSeason` one can specify the position of a title within a series, e.g. 01x15. The default value of `{\seasontitle}` is 1. Therefore you don't have to use it for just changing the season.

### 4.4.2 `\SetThirdColumnAddition`

`\SetThirdColumnAddition` As already mentioned, `\SetThirdColumnAddition` can be used to change the addition to the argument `{\length}` of the command `\DvdTitle`. By default, there will be typeset **min**.  
`{\addition}`

### 4.4.3 `\listofdvd`s

`\listofdvd[\heading]{\columns}` `\listofdvd`s will provide a list of dvds with `{\columns}` (default: 2) columns. The optional argument `[\heading]` can be used to change the predefined heading. To reach this goal, `dvdcoll.cls` will write on-the-fly a database in Bib<sub>T</sub><sub>E</sub><sub>X</sub> format. To get the list you have to run Bib<sub>T</sub><sub>E</sub><sub>X</sub> followed by another run of (pdf)latex.

### 4.4.4 `\listofemptydescriptions`

`\listofemptydescriptions` `\listofemptydescriptions` will create a list with all titles with an empty description. (see: 4.2.3) With this list you have a good starting point for a internet search, e.g. on fan sites.

### 4.4.5 `\listoffaultyrecordings`

`\listoffaultyrecordings` `\listoffaultyrecordings` will provide a list comparable to the Table of Contents, which contains the titles specified as faulty or missing in the command `\DvdTitle`.



#### 4.4.6 `\SetLFRName`

`\SetLFRName{<lname>}` If you are unhappy with the predefined LFR heading, you can use `\SetLFRName` to set your own.

#### 4.4.7 `\pdfmarginnote`

`\pdfmarginnote[<style>]{<note>}` `\pdfmarginnote` will set a link to a pdf annotation into the margin. The default value of [`<style>`] is 'Help'<sup>6</sup>

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<sup>6</sup>possible values are: Comment, Key, Note, Help, Paragraph, NewParagraph, Insert (Ado04, ,page 586)

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