

# **RM Latex**

## **IB-XY unbekannt**

## **DLR report layout**

An easy to use DLR layout package

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# 1 Introduction

This class provides a DLR layout scheme. It allows an easy change of the title page and of the page layout. In addition, it is possible to use the DLR corporate identity fonts with a suitable math font: `cmbright`.

$$E = mc^2 \tag{1.1}$$

However, the package bases on the established KOMA-Skript and tries to keep as much features as possible of it "alive".





## 2 Usage

### 2.1 The `dlrtitle` Package

This package renews `\maketitle` command in order to change the appearance of the title page using the capabilities of TikZ. In addition, the command `\reportno` is provided, which is similar to the `\author` command.

The layout of the title page can be set up using the `\settitle` command. It accepts key/value pairs. You can set the `type=plain` to chose a simple report layout. Setting `type=areas` creates a print category layout with the research areas' corporate design pictures. The research areas can be set with `area=aeronautics`, `area=space`, `area=transport`, `area=energy` and `area=custom`. If `area=custom`, the user must supply the image `custom.*` in an accepted file format. An aspect ratio of 15/9 is advised, but not needed. Acceptable formats are e.g. `custom.eps`, if you are using `ps $\text{\LaTeX}$` , or `custom.png` for `pdf $\text{\LaTeX}$` .

### 2.2 The `dlrheaders` Package

This package modifies the head and the foot line. Especial a DLR water mark and the report number is printed in the foot line. If the command `\reportno` is not yet defined it is created. This package uses the capabilities of the `scrpage2` package.

Figure 2.1: Figure typeset with DLR elements



Table 2.1: Table typeset with DLR elements

DLR	layout	test
looks a	nice, second	right? row

## 2.3 The `dlrelements` Package

This package modifies the document fonts for titles and captions. It additionally changes the layout of tables and figures. Use `\tablehead` to format table headings. See figure 2.1 and table 2.1 for an example.

The package provides the option `figures`, which takes the values `plain` or `dlr`. If `dlr` is set, the figure appear as seen in figure 2.1. Otherwise, the regular figure appearance is provided. The package options can be provided to the package directly or to the `dlr` document classes.

## 2.4 The `dlrreprt` Class

The packages above are combined within the `\dlrreprt` class, which can be loaded with `\documentclass{dlrreprt}` command instead of the `scrreprt` class. This will load the class with the default options.

The class is based on the `scrreprt` class. Options not recognised by the `dlrreprt` class are passed on to `scrreprt`.

### 2.4.1 Option `frutiger`

By default, the package also loads the DLR corporate identity fonts provided by the package `frutiger` with the `family` option. In order to provide a consistent layout with formulae, the package `cmbright` is loaded for math fonts. In order to avoid changing default fonts, you can use `\documentclass[frutiger=false]{dlrreprt}`.

### 2.4.2 Option `title`

By default, the package changes the appearance of the title page by renewing the command `\maketitle`. Use `\documentclass[title=false]{dlrreprt}`, if you wish to use the default title page.

### 2.4.3 Option `page`

By default, the package changes the page layout. This includes a header with the DLR logo, the publisher (usually the institute) and the current chapter. The footer is filled with either the document title or the report number and a page numbering, which also states the total count of pages in the body. If you wish to preserve the default page layout, use `\documentclass[page=false]{dlrreprt}`.

### 2.4.4 Option `elements`

By default, the `dlrelements` package is loaded. You can prevent that by specifying `\documentclass[elements=false]{dlrreprt}`.

### 2.4.5 Command `\reportno`

The package provides a new command `\reportno`, which is similar to the `\author` command in that it creates a variable for use in the title page. This command should be used to insert the internal report number of the document.

## 2.5 The dlrbook Class

The `\dlrbook` class is similar to the `\dlrreprt` class and accepts the same options. Instead of the `\scrreprt` class is based on the `\scrbook` class. The main advantages of this `\scrbook` class is, that it is optimised for a two-sided book layout. In addition the commands `\frontmatter`, `\mainmatter` and `\backmatter` are provided to change among others the page numbering within the front matter etc. For further information it is referred to the documentation of KOMA-Script.

### 2.5.1 Command `\titlematter`

In addition to the `\frontmatter` command `\titlematter` can be used to change the page numbering of the title page.

## 2.6 The dlrsecondpage Package

This package provides a second page containing an identification sheet for the document and a version history. The following commands can be used to fill out information in the identification sheet:

Table 2.2: **Document identification provided by the `\dlrsecondpage` package**

<code>\title</code>	The document title
<code>\subject</code>	The general subject
<code>\keywords</code>	Some keywords
<code>\restrictions</code>	Access restrictions
<code>\author</code>	The author
<code>\telnumber</code>	The author's internal telephone number
<code>\faxnumber</code>	The author's internal fax number
<code>\email</code>	The author's email
<code>\savedby</code>	The the last one to save the file
<code>\coauthor</code>	Contributors to the document
<code>\approvedby</code>	Who checked the document?
<code>\releasedby</code>	Who released the document to the access-granted group?



The package relies on the `listofversions` package for version handling. It additionally uses the `dlrinstitutes` package to retrieve information on the institute. It also uses the `username` package to set defaults for `\savedby`. The second page can be generated using `\secondpage`.



## 3 Installation

1. Copy the package to any desired path. It is important that you do not change the directory structure.
2. Open the MikTeX Settings GUI and add the package path to the MikTeX root directory list.
3. You may need to refresh the filename database (FNDB).
4. Note: This package collection requires the `frutiger` package to work correctly. How you can install this package is explicitly explain in the corresponding documentation.