

# The transpect.dtx Package<sup>1</sup>

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# **File I**

## **Documentation**



**File II**

**Implementation**





<\*class>

```
\message{le-tex transpect package version \fileversion\space (\  
  filedate) ^^J}  
  
\def\includeDTX#1{\input src/#1.dtx}
```



# Chapter 1

## transpect.dtx

This is the main class file for the Transpect LaTeX package.

```
%%  
%% Common document class for le-tex Transpect projects.  
%%  
%% Maintainer: p.schulz@le-tex.de  
%%  
%% lualatex - texlive > 2019  
%%  
\NeedsTeXFormat{LaTeX2e}[2019/01/01]  
\ProvidesClass{transpect}  
  [\filedate \fileversion le-tex transpect]  
\RequirePackage{kvoptions-patch}%%NEW  
\RequirePackage{xkeyval}  
\RequirePackage{transpect-helpers}  
\PassOptionsToPackage{cmyk}{xcolor}  
  %\PassOptionsToPackage{endnotes, resetnotesperchapter,  
    endnotesperchapter}{transpect-endnotes}  
  %\PassOptionsToPackage{}{transpect-script}
```

The options `book` (default, included only for legacy reasons) and `collection` are used to switch between single and multiple contributors documents. The latter is used when the document's components (i. e., chapters) are contributed to different authors like journals, collections, or proceedings. `book` is used where the whole document has the same author(s).

```
\newif\ifcollection \collectionfalse  
\newif\ifhasparts \haspartsfalse  
\DeclareOptionX{book}{\global\collectionfalse}  
\DeclareOptionX{collection}{\global\collectiontrue}  
\DeclareOption*{\PassOptionsToClass{\CurrentOption}{book}}
```

```
\ProcessOptionsX
```

All transpect derived classes base on L<sup>A</sup>T<sub>E</sub>X's default class book:

```
\LoadClass[10pt,a4paper]{book}
```

Offsets are the removed to make all values relative to the upper left corner of the page to ease maintainance.

```
\voffset-1in\relax
\hoffset-1in\relax
```

typesetting automata need some room to play:

```
\emergencystretch=2em
```

and strong restrictions:

```
\frenchspacing
\clubpenalty10000
\widowpenalty10000
```

page style without any headers or footers

```
\def\ps@empty{%
  \let\@oddhead\@empty
  \let\@evenhead\@empty
  \let\@oddfoot\@empty
  \let\@evenfoot\@empty
}
```

vacancy pages need to have page style empty:

```
\def\cleardoublepage{\clearpage\if@twoside \ifodd\c@page\else
  \hbox{}\thispagestyle{empty}\newpage\if@twocolumn\hbox{}\newpage\fi\fi}
```

re-defined to make front- and backmatter components distinguish-able

```
\newif\if@frontmatter \@frontmatterfalse
\renewcommand\frontmatter{%
  \cleardoublepage
  \@mainmatterfalse
  \@frontmattertrue
  \pagenumbering{arabic}}

\renewcommand\mainmatter{%
  \cleardoublepage
  \@frontmatterfalse
```

```

\@mainmattertrue}

\renewcommand\backmatter{%
\cleardoublepage
\@mainmatterfalse
\@frontmatterfalse}

```

hard requirements for all transpect derivatives:

```

\usepackage{color}
\usepackage{graphicx}
\usepackage{soul}

```

In the `transpect-headings.sty`, we include the bookmark package, which within calls the `hyperref` package.

```

\PassOptionsToPackage{breaklinks,linktocpage,pdfborder={0 0 0},
pdfencoding=auto,bookmarksnumbered=true}{hyperref}
\usepackage{transpect-headings}
\usepackage{transpect-floats}

```

Inclusion of `transpect-endnotes`

```

\RequirePackage{transpect-endnotes}

```

Inclusion of `transpect-title`

```

% \RequirePackage{transpect-title}

```

Fallback, in case, `transpect-headings.sty` is not loaded for some reason.

```

\RequirePackage{hyperref}

%</class>
%<*helpers>
% \begin{macrocode}[lastline=0]
%
```



## Chapter 2

# transpect-helpers.dtx

This file provides some basic macros and facilities like macro hooks.

```
%%  
%% module for le-tex transpect.cls that provides some commonly  
%% used base macros.  
%%  
%% Maintainer: p.schulz@le-tex.de  
%%  
%% lualatex - texlive > 2019  
%%  
\NeedsTeXFormat{LaTeX2e}[2019/01/01]  
\ProvidesPackage{transpect-helpers}  
[2020/22/04 0.90 le-tex transpect helpers module]
```

prefix macro used to execute code after the next `\fi`:

```
\def\afterfi#1\fi{\fi#1}
```

`\afterbox` prevents indentation and additional spacing after environments. Intended to be used in combination with `\aftergroup`.

```
\def\@afterbox{%  
  \everypar{%  
    \if@nobreak  
      \@nobreakfalse  
      \clubpenalty \@M  
    \if@afterindent \else  
      {\setbox\z@\lastbox}%  
      \everypar{}%  
    \fi  
  \else  
    \clubpenalty \@clubpenalty
```

```
{\setbox\z@\lastbox}%
\everypar{}%
\fi}}
```

This macro is used to calculate the ratio between two integers.

```
\def\CalcRatio#1#2{\strip@pt\dimexpr\number\numexpr\number\
dimexpr#1\relax*65536/\number\dimexpr#2\relax\relax sp}
```

traverse step-wise through counter #1, start at number #2 until and including number #3 and do at every loop #4 (from forloop.sty):

```
\long\def\sh@iterate#1#2#3#4{%
\advance#1\@ne\relax
#1=#2\relax%
\expandafter\ifnum#1>#3\relax%
\else
#4%
\sh@iterate{#1}{\the#1}{#3}{#4}%
\fi}%
```

## 2.1 Hooks

In this part we provide the facility to utilize Hooks to patch code into different parts of the package depending on options and loaded packages.

```
\RequirePackage{etoolbox}
\def\tpDeclareHook#1{\expandafter\global\expandafter\let\csname
tp@hook@#1\endcsname\@empty}
\def\tpAddToHook#1#2{\expandafter\ifx\csname tp@hook@#1\endcsname
\relax\else\csgappto{tp@hook@#1}{#2}\fi}
\def\tpUseHook#1{\expandafter\ifx\csname tp@hook@#1\endcsname\
relax\else\csname tp@hook@#1\endcsname\fi}
```

</helpers> <\*headings>

```
%
```



## Chapter 3

# transpect-headings.dtx

This module provides handlers for headings like parts, chapters, sections, or inline headings common to all Transpect projects

```
%%  
%% module for le-tex transpect.cls that extends heading objects.  
%%  
%% Maintainer: p.schulz@le-tex.de  
%%  
%% lualatex - texlive >= 2019  
%%  
\NeedsTeXFormat{LaTeX2e}[2019/01/01]  
\ProvidesPackage{transpect-headings}  
[\filedate \fileversion le-tex transpect headings module]
```

Headings are handled differently with `transpect.cls` compared to standard  $\text{\LaTeX}$ , since transpect manuscripts tend to have a whole collection of additional information that are pressed into the headings, like subtitles or section authors down to subsection level, etc. Therefore, the `\@startsection` and `\@make[s]chapterhead` facilities from  $\text{\LaTeX}$  are no longer sufficient. At the same time, the package does not redefine those macros and keeps them available for backwards compatibility.

First, we load the bookmark package:

```
\RequirePackage{bookmark}
```

Since we use our own heading levels, we disable all automatically generated bookmarks.

```
\hypersetup{bookmarksdepth=-999}
```

### 3.1 Blocks

Blocks are bundled units of heading elements. They provide three hooks: Before<Name><Level>, After<Name><Level>, and <Name>Format<Level>. The arguments are #1: <Name>, #2 <Level>.

```
\def\tpDeclareBlock#1#2{ %
  \tpDeclareHook{Before#1#2} %
  \tpDeclareHook{#1Format#2} %
  \tpDeclareHook{After#1#2} %
}
```

The use-call function for Blocks

```
\def\tp@use@heading@block#1#2{ %
  \expandafter\ifx\csname heading@#1\endcsname\relax\else
    \tpUseHook{Before#1#2} %
    {\tpUseHook{#1Format#2}\csname heading@#1\endcsname} %
    \tpUseHook{After#1#2} %
  \fi}
```

### 3.2 Facility for declaring heading levels and their layouts

- 1 (optional) inherit-from: load all properties from that class, first.
- 2 level: used for toc entries. -1 for part, 0 for chapter, 1 for section, etc.
- 3 name: part, chapter, section, etc, to be used in toc, head lines, bookmarks, etc.
- 4 Property definitions and switches

```
\def\tpDeclareHeading{\@ifnextchar[{\@tpDeclareHeading}{\
  @tpDeclareHeading[]}} %]
\def\@tpDeclareHeading[#1]#2#3#4{ %
  \expandafter\gdef\csname tp@decl@#3\endcsname{#4} %
  \global\let\tp@inherit\relax
  \if!#1!\else
    \xdef\tp@inherit{#1} %
    \expandafter\xdef\csname tp@inherit@#3\expandafter\endcsname
      {#1} %
  \fi
  \expandafter\def\csname heading@#3@name\endcsname{#3} %
  \def\tpHeadingProperty##1##2{ %
    \ifx\tp@inherit\relax\else\tpDeclareHook{##1#3}\fi
    \tpAddToHook{##1#3}{##2} %
  } %
}
```

### 3.2.1 Block hooks

Formatting and upper/lower boundaries of the author's names

```
\tpDeclareBlock{Author}{#3}%
```

Formatting and upper/lower boundaries of the subtitle

```
\tpDeclareBlock{Subtitle}{#3}%
```

Formatting and upper/lower boundaries of mottos/quotes/quotations

```
\tpDeclareBlock{Quote}{#3}%
```

Formatting and upper/lower boundaries of quote sources

```
\tpDeclareBlock{QuoteSource}{#3}%
```

Formatting and upper/lower boundaries of heading counters. These are formatted as the actual title, but can be overridden with \NumberFormat.

```
\tpDeclareBlock{Number}{#3}%
```

### 3.2.2 Heading-wide hooks

Block format for the whole title, used for properties that affect the whole heading, like horizontal alignment

```
\tpDeclareHook{BlockFormat#3}%
```

Code that is applied at the very beginning of the heading, usually contains a \clearpage for the lower levels, but also preceeding skips

```
\tpDeclareHook{BeforeHeading#3}%
```

Code that is applied at the end of the heading (but before \@afterheading). This does NOT contain after-heading skips.

```
\tpDeclareHook{AfterHeading#3}%
```

After heading skip. This is used to separate inline headings (value < 0pt) from free-floating headings (else), compare \@startsection's fifth argument.

```
\tpDeclareHook{AfterSkip#3}%
```

format of the actual heading title

```
\tpDeclareHook{TitleFormat#3}%
```

This hook is inserted after the main title. Redefine this if you need to put the subtitle immediately after the main title, or else a \par is inserted.

```
\def\tpAfterTitle##1{\expandafter\def\csname tp@after@title@#3\endcsname{##1}}%
```

The following hooks allow the whole heading to be placed inside a box, e.g., when the heading area should have a fixed overall height.

```
\tpDeclareHook{BeforeBox#3}%
\tpDeclareHook{AfterBox#3}%
```

This switch enables parindents immediately after the heading.

```
\def\tpAfterIndent{\expandafter\global\expandafter\let\csname tp@fter@indent@#3\endcsname\@empty}%
```

This switch provides a way to put the author's name(s) after the heading. Default is that the author's are put on top of the heading.

```
\def\tpAuthorAfter{\expandafter\global\expandafter\let\csname tp@author@fter@#3\endcsname\@empty}%
```

Hook to change behaviour of consecutive headings

```
\def\tpHeadingPar{%
  \ifx\tp@interline@paragraphs\relax\else
    \ifnoskipsec \leavevmode \fi
  \fi
  \@@par\@afterindenttrue
}%
```

Switch to print consecutive inline headings inline instead of block.

```
\def\tpInterlineParagraphs{\global\let\tp@interline@paragraphs\relax}%
```

Separator between consecutive inline-printed headings

```
\def\tpInterlineParaSep{\space}%
```

This switch suppresses the output of author names all-together.

```
\def\tpHideAuthor{\expandafter\global\expandafter\let\csname tp@hide@author@#3\endcsname\@empty}%
```

### 3.2. FACILITY FOR DECLARING HEADING LEVELS AND THEIR LAYOUTS<sup>21</sup>

Facility for hanging indents in headings.

`\tpHangNumber` triggers hanging indent by the total width of the number block.

```
\def\tpHangNumber{\expandafter\global\expandafter\let\csname
tp@hang@number@#3\endcsname\@empty}%
```

`\tpNoToc` triggers the heading level to never get an entry in the table of contents.

```
\def\tpNoToc{\expandafter\global\expandafter\let\csname
tp@no@toc@#3\endcsname\@empty}%
```

`\tpHangNumber` can be used when the hanging indent should always be of a fixed width. If omitted, the hanging indent is determined by the number's overall width for each heading separately.

```
\def\tpHangFixed##1{\expandafter\gdef\csname tp@hang@fixed@#3\
endcsname{##1}}%
\tpHangFixed{\z@}%
```

Evaluation of user's overrides

```
\tp@init@1@{#3}{#2}%
\ifx\tp@inherit\relax\else
\csname tp@decl@tp@inherit\endcsname
\fi
\csname tp@decl@#3\endcsname
```

Once a heading level is declared, we can now provide the facilities to output the headings. This code largely resembles L<sup>A</sup>T<sub>E</sub>X's `\@startsection` mechanism, albeit with some tweaks.

#### 3.2.3 Providing the actual heading macro

```
\expandafter\def\csname tpUseHeading#3\endcsname{%
\expandafter\let\expandafter\tp@inherit@name\csname
tp@inherit@#3\endcsname
```

Check some default overrides. The `tpAfterSkip` hook determines whether a heading is placed inline or as block:

```
\expandafter\ifx\csname tp@hook@AfterSkip#3\endcsname\@empty
\global\@tempskipa=1sp\relax
\else
\expandafter\expandafter\expandafter\global\expandafter\
expandafter\@tempskipa\expandafter=\csname
tp@hook@AfterSkip#3\endcsname\relax%
\fi
```

If `\tpAfterTitle` hasn't been overridden by the user, we need to set its default value depending on whether the heading is placed inline or as block.

```
\expandafter\ifx\csname tp@after@title@#3\endcsname\@undefined
\ifdim\@tempskipa<\z@\relax
\expandafter\global\expandafter\let\csname tp@after@title@
#3\endcsname\relax
\else
\expandafter\global\expandafter\let\csname tp@after@title@
#3\endcsname\par
\fi
\fi
\edef\heading@level{#2}%
\edef\Hy@toclevel{\csname toclevel@#2\endcsname}%
\tpHeadingPar
\tpUseHook{BeforeHeading#3}%
\everypar{ }%
```

catch L<sup>A</sup>T<sub>E</sub>X's referencing facility with some magick for hyperref:

```
\ifx\Hy@MakeCurrentHrefAuto\@undefined\else
\Hy@MakeCurrentHrefAuto{#3}%
\Hy@raisedlink{\hyper@anchorstart{\@currentHref}\
hyper@anchorend}%
\fi
\ifx\tp@label\relax\else
\ifx\heading@Number\relax
\else
\let\@currentlabel\heading@Number
\let\@currentlabelname\heading@Title
\expandafter\ltx@label\expandafter{\tp@label}%
\fi
\fi
\global\let\label\ltx@label
```

Running headers

```
\expandafter\let\expandafter\tp@mark@name\csname #3mark\
endcsname%
\ifx\tp@mark@name\relax
\ifx\tp@inherit@name\relax\else
\expandafter\let\expandafter\tp@mark@name\csname \
tp@inherit@name mark\endcsname
\fi
\fi
\ifx\tp@mark@name\relax
\else
\ifx\heading@Runtitle\relax
\ifx\heading@Number\relax
\tp@mark@name{\heading@Title}%
\fi
\fi
\fi
```

### 3.2. FACILITY FOR DECLARING HEADING LEVELS AND THEIR LAYOUTS23

```
\else
```

note that `\chaptermark` and `\sectionmark` need to be dealt with in your page style definitions or you might get faulty `\thechapter` and `\thesection` readings!

```
\tp@mark@name{\protect\numberline{\heading@Number}\
heading@Title}%
\fi
\else
\tp@mark@name{\heading@Runtitle}%
\fi
\fi
```

Entry in table of contents

```
\expandafter\ifx\csname tp@no@toc@#3\endcsname\@empty\else
\expandafter\ifx\tp@notoc\relax
\global\let\tp@notoc\@empty
\else
\ifx\tp@notocnumber\relax
\let\numberline\@gobble
\global\let\tp@notocnumber\@empty
\fi
\expandafter\ifnum\heading@level<\c@tocdepth\relax
\ifx\heading@Toctitle\relax
\ifx\heading@Number\relax
\ifx\heading@Author\relax
\addcontentsline{toc}{#3}{\heading@Title}\relax
\bookmark[level=#2,dest=\@currentHref]{\heading@Title}
}%
\else
\ifx\heading@Tocauthor\relax
\addcontentsline{toc}{#3}{\protect\tpToCAuthor{\
heading@Tocauthor}\heading@Title}\relax
\bookmark[level=#2,dest=\@currentHref]{\
heading@Tocauthor\space\heading@Title}%
\else
\addcontentsline{toc}{#3}{\protect\tpToCAuthor{\
heading@Tocauthor}\heading@Title}\relax
\bookmark[level=#2,dest=\@currentHref]{\
heading@Tocauthor\space\heading@Title}%
\fi
\fi
\else
\addcontentsline{toc}{#3}{\protect\numberline{\
heading@Number}\heading@Title}\relax
\bookmark[level=#2,dest=\@currentHref]{\Hy@numberline{\
heading@Number}\heading@Title}%
\fi
\else
```

```

\addcontentsline{toc}{#3}{\heading@Toctitle}\relax
\bookmark[level=#2,dest=\@currentHref]{\heading@Toctitle}
}%
\fi
\fi
\fi
\fi
\def\@svsec{%
\tpUseHook{BeforeBox#3}%
\bgroup
\parindent\z@ \parskip\z@
\tpUseHook{BlockFormat#3}%
\expandafter\ifx\csname tp@hide@uthor@#3\endcsname\relax
\expandafter\ifx\csname tp@author@fter@#3\endcsname\relax
\tp@use@heading@block{Author}{#3}%
\fi
\fi
\expandafter\ifx\csname tp@hang@number@#3\endcsname\@empty
\expandafter\@tempdima\dimexpr\csname tp@hang@fixed@#3\endcsname\relax
\ifdim\@tempdima>\z@\relax\else
\setbox\z@\hbox{\tpUseHook{TitleFormat#3}\tp@use@heading@block{Number}{#3}\strut}%
\@tempdima\wd\z@
\fi
\expandafter\@tempdima\dimexpr\hsize-\@tempdima\relax
\hskip\@tempdima\vbox\bgroup
\hsize\@tempdima\relax
\hskip-\@tempdima
\fi
{\tpUseHook{TitleFormat#3}%
\tp@use@heading@block{Number}{#3}%
\heading@Title
\csname tp@after@title@#3\endcsname}
}%
\tp@use@heading@block{Subtitle}{#3}%
\expandafter\ifx\csname tp@hide@uthor@#3\endcsname\relax
\expandafter\ifx\csname tp@author@fter@#3\endcsname\relax
else
\tp@use@heading@block{Author}{#3}%
\fi
\fi
\expandafter\ifx\csname tp@hang@number@#3\endcsname\@empty
\vss\egroup
\fi
\tp@use@heading@block{Quote}{#3}%
\tp@use@heading@block{QuoteSource}{#3}%

```

Since all counters are taken from Word input, we can safely override `\the<name>`:



```

\ifx\heading@Number\relax
  \expandafter\global\expandafter\let\csname the#3\endcsname
    \@empty%
\else
  \expandafter\xdef\csname the#3\endcsname{\heading@Number}%
\fi
\tpUseHook{AfterBox#3}%
\egroup
\tpUseHook{AfterHeading#3}%
}%

```

Skip after the heading, taken partially from the definition of L<sup>A</sup>T<sub>E</sub>X's \@xsect macro:

```

\ifdim\@tempskipa <\z@\relax
  \expandafter\ifx\csname tp@after@indent@#3\endcsname\relax
    \global\@afterindentfalse
  \else
    \global\@afterindenttrue
  \fi
  \ifx\tp@interline@paragraphs\relax
    \global\setbox\@tempboxa\hbox{\ifvoid\@tempboxa\else\unhbox
      \@tempboxa\tpInterlineParaSep\fi\@svsec}%
  \else
    \global\setbox\@tempboxa\hbox{\@svsec}%
  \fi
  \@nbreakfalse
  \global\@noskipsectrue
  \gdef\next{%
    \global\everypar{%
      \if@noskipsec
        \global\@noskipsecfalse
        {\setbox\z@\lastbox}%
        \clubpenalty\@M
        \begingroup\unhbox\@tempboxa\endgroup
        \unskip
        \hskip -\@tempskipa
      \else
        \clubpenalty\@clubpenalty
        \global\setbox\@tempboxa\box\voidb@x
        \everypar{}%
      \fi}%
    \ignorespaces
  }%
\else
  \@svsec
  \par\nobreak
  \gdef\next{%
    \vskip\@tempskipa

```

```

\expandafter\ifx\csname tp@fter@indent@#3\endcsname\relax
\global\@afterindentfalse
\else
\global\@afterindenttrue
\fi
\@afterheading}%
\fi
\aftergroup\next%
}}

```

Counterpart to `\addvspace`: if the value of `\minusvspace` is larger than `\lastskip`, `\lastskip` is used. Otherwise, the value of `\minusvspace` is used.

```

\def\@xminusvskip{%
\ifdim\lastskip<\@tempskipb
\else
\ifdim\@tempskipb<\z@
\ifdim\lastskip<\z@
\else
\advance\@tempskipb\lastskip
\vskip-\lastskip
\vskip \@tempskipb
\fi
\fi
\fi}
\def\minusvspace#1{%
\ifvmode
\if@minipage\else
\ifdim \lastskip =\z@

```

Compatibility to texlive pre 2020:

```

\ifx\@vspace@calcify\@undefined
\vskip #1\relax
\else
\@vspace@calcify{#1}%
\fi
\else
\setlength\@tempskipb{#1}%
\@xminusvskip
\fi
\fi
\else
\@noitemerr
\fi}

```

### 3.3 The headings environment

```

\def\heading{\@ifnextchar [{\@heading}{\@heading[]}}%]

\DeclareRobustCommand{\TitleBreak}{\hfill\break}

\def\tp@parse@opt#1{\@tp@parse@opt#1,,\@nil}
\def\@tp@parse@opt#1,#2,\@nil{%
  \expandafter\ifx\csname tp@#1\endcsname\@empty
    \expandafter\global\expandafter\let\csname tp@#1\endcsname\relax
  \fi
  \if!#2!\else
    \@tp@parse@opt#2,\@nil
  \fi}

\def\@heading[#1]#2{%
  \bgroup
  \let\\\TitleBreak
  \global\let\heading@Author\relax
  \global\let\heading@Title\relax
  \global\let\heading@Number\relax
  \global\let\heading@Subtitle\relax
  \global\let\heading@Toctitle\relax
  \global\let\heading@Tocauthor\relax
  \global\let\heading@Runtitle\relax
  \global\let\heading@Quote\relax
  \global\let\heading@QuoteSource\relax
  \global\let\ltx@label\label
  \global\let\tp@label\relax

```

handling of the optional argument

```

\global\let\tp@notoc\@empty
\global\let\tp@notocnumber\@empty
\tp@parse@opt{#1}%
\bgroup

```

The mandatory argument contains the section level, this corresponds to L<sup>A</sup>T<sub>E</sub>X's way of counting where part is -1, chapter is 0, section is 1, etc.

```

\xdef\heading@name{#2}%
\def\label##1{\gdef\tp@label{##1}}%
\def\author##1{\gdef\heading@Author{##1}}%
\long\def\title##1{\long\gdef\heading@Title{##1}}%
\long\def\subtitle##1{\long\gdef\heading@Subtitle{##1}}%
\long\def\toctitle##1{\long\gdef\heading@Toctitle{##1}}%
\long\def\tocauthor##1{\long\gdef\heading@Tocauthor{##1}}%
\def\runtitle##1{\gdef\heading@Runtitle{##1}}%
\def\number##1{\gdef\heading@Number{##1}}%
\long\def\quote##1{\long\gdef\heading@Quote{##1}}%

```

```

\long\def\quotesource##1{\long\gdef\heading@QuoteSource{##1}}
%
}

```

The ending part of the heading environment.

```

\def\endheading{%
  \egroup
  \expandafter\ifx\csname tpUseHeading\heading@name\endcsname\
    relax
    \PackageError{transpect.cls}{Heading level \heading@name\
      space unknown!}{A Heading with level \heading@name\space
      is unknown. Use the \string\tpDeclareHeading\space macro
      to declare heading levels.}%
  \fi
  \expandafter\aftergroup\csname tpUseHeading\heading@name\
    endcsname
  \egroup
  \nopagebreak
}

```

### 3.4 Facility for ToC and ListOf entries

```

\def\tp@init@l@#1#2{%
  \def\tpToCProperty##1##2{\tpAddToHook{##1#1}{##2}}%
}

```

Code to be inserted before the toc entry for that level

```

\def\tpToCBefore##1{\expandafter\gdef\csname tp@toc@before@#1\
  endcsname{##1}}%\vskip 1.0em \@plus\p@

```

Code to be inserted after the toc entry for that level

```

\def\tpToCAfter##1{\expandafter\def\csname tp@toc@after@#1\
  endcsname{##1}}%

```

If used, create a hanging indent the width of the heading level's widest number

```

\def\tpToCHangNumber{\expandafter\global\expandafter\let\csname
  tp@toc@hangnum@#1\endcsname\@empty}%

```

If greater than 0pt, and no \tpToCHangNumber is set, use hanging indent of that width, needs to be defined as a dimension. Is used together with \tpToCHangNumber, that is the minimum amount of the hanging indent, even if the heading level's widest number is narrower than that amount.

```
\def\tpToCHangFixed##1{\expandafter\xdef\csname
  tp@toc@hangfixed@#1\endcsname{\dimexpr##1\relax}}%
\expandafter\let\csname tp@toc@hangfixed@#1\endcsname\z@
```

Separator between the heading number and the heading title

```
\def\tpToCNumSep##1{\expandafter\gdef\csname tp@toc@numsep@#1\
  endcsname{##1}}%\enskip
```

Separator between the heading title and the page number

```
\def\tpToCPageSep##1{\expandafter\gdef\csname tp@toc@pagesep@#1\
  endcsname{##1}}%\dotfill
```

Separator between author and whatever comes next.

```
\def\tpToCAuthorAfter##1{\expandafter\gdef\csname
  tp@toc@author@after@#1\endcsname{##1}}%;
\def\tpToCAuthorBefore##1{\expandafter\gdef\csname
  tp@toc@author@before@#1\endcsname{##1}}%;
\def\tpToCAuthorFormat##1{\expandafter\gdef\csname
  tp@toc@authorformat@#1\endcsname{##1}}%
```

If set, Author comes after the toc line

```
\def\tpToCAuthorAfterHeading{\expandafter\global\expandafter\let
  \csname tp@toc@author@after@heading@#1\endcsname\@empty}%
```

Format of the page number; extends \toTocFormat<level>.

```
\def\tpToCPageFormat##1{\expandafter\gdef\csname
  tp@toc@pageformat@#1\endcsname{##1}}%
```

Format of the entire toc entry, i.e., number, title, and page.

```
\def\tpToCFormat##1{\expandafter\gdef\csname tp@toc@format@#1\
  endcsname{##1}}%\bfseries
```

Use this switch to suppress the output of the page number at all.

```
\def\tpToCNoPage{\expandafter\global\expandafter\let\csname
  tp@toc@nopage@#1\endcsname\@empty}%
```

Generically provide L<sup>A</sup>T<sub>E</sub>X's internal toc entry formatting macros:

```
\expandafter\def\csname l@#1\endcsname##1##2{%
  \@tempdima\z@%% Breite der eigenen numberline
  \@tempdimc\z@%% Breite des linken Einzugs der nächsthöheren ÜS
  \addpenalty{-\@highpenalty}%
```

```

\setbox\@tempboxa\box\voidb@x
\csname tp@toc@before@#1\endcsname
\begingroup
\@tempcnta\numexpr#2-1\relax
\@whilenum\@tempcnta>\m@ne\do{%
\expandafter\ifx\csname numberlinewidth\the\@tempcnta\
endcsname\relax\else
\expandafter\advance\expandafter\@tempdimc\csname
numberlinewidth\the\@tempcnta\endcsname
\fi
\advance\@tempcnta\m@ne
}%
\parindent \z@
\rightskip \@pnumwidth\@plus1fill\relax
\parfillskip -\rightskip
\leavevmode
\csname tp@toc@format@#1\endcsname
\let\tp@toc@author@after@heading\relax
\expandafter\ifx\csname tp@toc@author@after@heading@#1\
endcsname\empty
\def\tpToCAuthor####1{\gdef\tp@toc@author@after@heading{\
csname tp@toc@author@before@#1\endcsname{\csname
tp@toc@authorformat@#1\endcsname ####1\csname
tp@toc@author@after@#1\endcsname}}}%
\else
\def\tpToCAuthor####1{\csname tp@toc@author@before@#1\
endcsname{\csname tp@toc@authorformat@#1\endcsname
####1\csname tp@toc@author@after@#1\endcsname}}}%
\fi
\sbox\z@{\def\numberline####1{\global\sbox\@tempboxa{####1\
enskip}}##1}%
\expandafter\@tempdima\csname tp@toc@hangfixed@#1\endcsname\
relax
\ifvoid\@tempboxa
\else
\expandafter\ifx\csname tp@toc@hangnum@#1\endcsname\empty
\@tempdima\dimexpr\wd\@tempboxa\relax
\fi
\fi
\edef\@tempa{%
\string\expandafter\string\gdef\string\csname\space
numberlinewidth#2\string\endcsname{\the\@tempdima}%
}%
\expandafter\ifx\csname numberlinewidth#2\endcsname\relax
\expandafter\xdef\csname numberlinewidth#2\endcsname{\the\
@tempdima}%
\expandafter\write\expandafter\@auxout\expandafter{\@tempa}
%
\else

```

```

\expandafter\ifdim\csname numberlinewidth#2\endcsname<\
@tempdima\relax
\expandafter\xdef\csname numberlinewidth#2\endcsname{\the\
@tempdima}%
\expandafter\write\expandafter\@auxout\expandafter{\@tempa
}%
\else
\expandafter\ifdim\csname numberlinewidth#2\endcsname=\
@tempdima\relax
\expandafter\write\expandafter\@auxout\expandafter{\
@tempa}%
\else
\expandafter\@tempdima\csname numberlinewidth#2\
endcsname\relax
\fi
\fi
\fi
\def\numberline####1{\hb@xt@{\@tempdima{####1\csname
tp@toc@numsep@#1\endcsname\ignorespaces}}}%
\ifvoid\@tempboxa
\leftskip \dimexpr\@tempdimc\relax
\else
\leftskip \dimexpr\@tempdima+\@tempdimc\relax
\hskip -\@tempdima
\fi
##1%
\expandafter\ifx\csname tp@toc@npage@#1\endcsname\relax
\nobreak
\csname tp@toc@pagesep@#1\endcsname
\nobreak\hb@xt@{\pnumwidth{\hss\csname tp@toc@pageformat@
#1\endcsname ##2}%
\kern-\p@\kern\p@}%
\fi
\tp@toc@author@after@heading
\par
\penalty\@highpenalty
\csname tp@toc@after@#1\endcsname
\endgroup
}%
}

```

### 3.5 Defaults

```

\def\partmark#1{}%
\tpDeclareHeading{-1}{part}{}%
\tpHeadingProperty{BlockFormat}{\centering
\markboth{}{}%

```

```

\thispagestyle{empty}%
}%
\tpHeadingProperty{BeforeHeading}{\cleardoublepage\null\vskip10
mm}%
\tpHeadingProperty{AfterHeading}{\vfill}%
\tpHeadingProperty{AuthorFormat}{\itshape}%
\tpHeadingProperty{AfterAuthor}{\@@par\vskip2\baselineskip}%
\tpHeadingProperty{TitleFormat}{\Huge}%
\tpHeadingProperty{BeforeSubtitle}{\@@par\vskip\baselineskip}%
\tpHeadingProperty{SubtitleFormat}{\leavevmode\vskip\
baselineskip\large\bfseries}%
\tpHeadingProperty{AfterNumber}{:\@@par}%
\tpToCBefore{\vskip2\baselineskip}%
\tpToCFormat{\bfseries}%
\tpToCPageSep{\hfill}%
}

\tpDeclareHeading{0}{chapter}{%
\tpHeadingProperty{BlockFormat}{\centering
\markboth{}}}%
\thispagestyle{empty}%
}%
\tpHeadingProperty{BeforeHeading}{\cleardoublepage\null\vskip10
mm}%
\tpHeadingProperty{AfterSkip}{3\baselineskip}%
\tpHeadingProperty{AuthorFormat}{\itshape}%
\tpHeadingProperty{AfterAuthor}{\@@par\vskip\baselineskip}%
\tpHeadingProperty{TitleFormat}{\LARGE}%
\tpHeadingProperty{SubtitleFormat}{\leavevmode\vskip\
baselineskip\Large\bfseries}%
\tpHeadingProperty{BeforeSubtitle}{\@@par\vskip.5\baselineskip}%
\tpHeadingProperty{BeforeQuote}{\strut\@@par\vskip\baselineskip\
hfil\hbox\bgroup\centering\vbox\bgroup\hsize.5\textwidth\
centering}%
\tpHeadingProperty{AfterQuote}{\egroup\egroup}%
\tpHeadingProperty{AfterNumber}{:\enskip}%
\tpToCBefore{\vskip1\baselineskip}%
\tpToCFormat{\bfseries}%
\tpToCPageSep{\bfseries\dotfill}%
%%
\tpHeadingProperty{AfterNumber}{:\enskip}%
}

\tpDeclareHeading{1}{section}{%
\tpAuthorAfter
\tpHangNumber
%\tpHangFixed{12mm}%
\tpHeadingProperty{BeforeHeading}{\vskip2\baselineskip}%
\tpHeadingProperty{AfterSkip}{1\baselineskip}%
\tpHeadingProperty{BeforeSubtitle}{--}%

```



```

\tpHeadingProperty{BeforeAuthor}{\@@par}%
\tpHeadingProperty{AuthorFormat}{\itshape}%
\tpHeadingProperty{AfterAuthor}{\@@par}%
\tpHeadingProperty{TitleFormat}{\Large}%
\tpHeadingProperty{SubtitleFormat}{\Large}%
\tpHeadingProperty{BeforeQuote}{\@@par\vskip.5\baselineskip}%
\tpHeadingProperty{AfterNumber}{:\enskip}%
% \tpHeadingProperty{AfterQuote}{\@@par\vskip.5\baselineskip}%
}

\tpDeclareHeading{2}{subsection}{%
\tpHeadingProperty{BeforeHeading}{\vskip1.5\baselineskip}%
\tpHeadingProperty{AfterSkip}{0.5\baselineskip}%
\tpHeadingProperty{BeforeSubtitle}{--}%
\tpHeadingProperty{AfterAuthor}{\@@par}%
\tpHeadingProperty{TitleFormat}{\large}%
\tpHeadingProperty{SubtitleFormat}{}%
\tpHeadingProperty{BeforeQuote}{\@@par\vskip.5\baselineskip}%
\tpHeadingProperty{AfterNumber}{:\enskip}%
}

\tpDeclareHeading{3}{subsubsection}{}

\tpDeclareHeading{4}{paragraph}{%
\tpHeadingProperty{BeforeHeading}{\vskip1\baselineskip \@minus5
bp}%
\tpHeadingProperty{AfterSkip}{-.5em}%
\tpHeadingProperty{BeforeSubtitle}{--}%
\tpHeadingProperty{AfterAuthor}{\@@par}%
\tpHeadingProperty{TitleFormat}{\normalsize\bfseries}%
\tpHeadingProperty{SubtitleFormat}{}%
\tpHeadingProperty{AfterNumber}{:\enskip}%
}

\let\ltx@ps@headings\ps@headings
\def\ps@headings{%
\ltx@ps@headings
\def\chaptermark##1{%
\def\numberline####1{####1\enskip}%
\markboth{
##1
}{}}%
\def\sectionmark##1{%
\def\numberline####1{####1\enskip}%
\markright{##1}}%
}

```

This macro is re-defined in \l@<level>. This default definition is only used for pdf bookmarks:

```
\def\tpToCAuthor#1{#1: }
```

```
</headings> <*endnotes>
```

```
%
```

## Chapter 4

# transpect-endnotes.dtx

This file contains the code for footnote handling. It provides a switch between endnotes and footnotes as well as options to handle the resetting of footnote/endnote counters.

```
%%  
%% module for le-tex transpect.cls that handles footnote/endnote  
%% switching.  
%%  
%% Maintainer: p.schulz@le-tex.de  
%%  
%% lualatex - texlive > 2019  
%%  
\NeedsTeXFormat{LaTeX2e}[2019/01/01]  
\ProvidesPackage{transpect-endnotes}  
[\filedate \fileversion le-tex transpect endnotes module]
```

internal switch for endnotes (`\endnotesttrue`) or footnotes (`\endnotesfalse`, default).

```
\newif\ifendnotes \endnotesfalse
```

package options:

- `endnotes` activates endnotes.
- `resetnotesperchapter` resets foot- and endnotes at the start of each chapter level heading. If omitted (default) foot- or endnotes are numbered throughout the whole document
- `endnotesperchapter` implies `endnotes` and allows the output of all collected endnotes at the end of each chapter. It also sets the note's heading to section level (otherwise it is chapter level).

```
\DeclareOption{endnotes}{\global\endnotesttrue}  
\DeclareOption{resetnotesperchapter}{\global\let\  
reset@notes@per@chapter\relax}
```

```
\DeclareOption{endnotesperchapter}{\global\endnotestruetrue\global\
  \let\endnotes@per@chapter\relax}
\ProcessOptions
```

footnote package is mandatory since it provides the `\savenotes` and `\spewnotes` macros:

```
\usepackage{footnote}
```

Handling of endnotes:

```
\newif\if@enotesopen
\ifendnotes
\RequirePackage{endnotes}
\@ifpackageloaded{transpect-headings}{\let\tp@useTeXHeading\
  \relax}{}
\let\footnote=\endnote
\def\enotesize{\normalsize}%
\def\noteformat{\leavevmode\hskip-2em\hb@xt@2em{\@theenmark\hss
  }}%
\def\noteheading{%
  \ifx\endnotes@per@chapter\relax
    \ifx\tp@useTeXHeading\relax
      \begin{heading}{section}%
        \title{\notesname}%
      \end{heading}
    \else%
      \section*\notesname%
      \addcontentsline{toc}{chapter}{\notesname}%
    \fi
  \else
    \ifx\tp@useTeXHeading\relax
      \begin{heading}{chapter}%
        \title{\notesname}%
      \end{heading}
    \else%
      \chapter*\notesname%
      \addcontentsline{toc}{chapter}{\notesname}%
    \fi
  \fi
  \leftskip2em
}%
\def\printnotes{%
  \ifx\endnotes@per@chapter\relax
    \ifnum\c@endnote>\z@
      \expandafter\global\expandafter\let\csname enotes@in@the\
        realchap\endcsname\@empty
    \fi
  \fi
  \if@enotesopen
```

```

\global\c@endnote\z@%
\bgroup
\parindent\z@
\parskip\z@
\theendnotes
\egroup
\fi}
\else
\let\printnotes\relax
\fi

\ifx\reset@notes@per@chapter\relax
\tpAddToHook{BeforeChapterHook}{\global\c@footnote\z@}
\fi

\newcount\realchap \realchap\z@
\ifx\endnotes@per@chapter\relax
\tpAddToHook{Before@ChapterHook}{%
\ifnum\c@endnote>\z@\relax
\expandafter\global\expandafter\let\csname enotes@in@\the\
realchap\endcsname\@empty
\fi
\advance\realchap\@ne
\global\c@endnote\z@
\addtoendnotes{\noexpand\expandafter\noexpand\ifx\noexpand\
csname enotes@in@\the\realchap\noexpand\endcsname\noexpand\
@empty\bgroup\leftskip\z@\protect\section*{#1}\egroup\
noexpand\fi}%
}
\fi

```

</endnotes> <\*script>

%



## Chapter 5

# transpect-script.dtx

This package is used to handle non-latin based script systems like Japanese, Chinese, Armenian and the like. Since it requires babel to be loaded first, it is not loaded automatically with transpect.cls but has to be incorporated via the publisher's specific styles.

```
%% module for le-tex transpect.cls that handles script switching.
%%
%% Maintainer: p.schulz@le-tex.de
%%
%% lualatex - texlive > 2019
%%
\NeedsTeXFormat{LaTeX2e}[2019/01/01]
\ProvidesPackage{transpect-script}
[2020/22/04 0.90 le-tex transpect script module]
```

The argument of the `usescript` option is a list of script systems that are used in the document. It is used to determine the additional fonts that are to be loaded via the babel package.

```
\let\usescript\relax
\define@key{transpect-script.sty}{usescript}{\def\usescript{#1}}
\ProcessOptionsX

\RequirePackage{fontspec}
\RequirePackage{babel}
\def\parse@script#1,#2,\relax{%
  \expandafter\let\csname use@script@#1\endcsname\relax%
  \edef\@argii{#2}%
  \let\next\relax
  \ifx\@argii\empty\else
    \def\next{\parse@script#2,\relax}%
  \fi\next}
```

```

\ifx\usescript\relax\else
  \expandafter\parse@script\usescript,,\relax
\fi

\message{^^J [transpect-script Fonts loaded: \meaning\usescript
]^^J}

```

## 5.1 Default fallback font

The default fall backfont is the NotoSans Font Family

```

\newfontfamily\fallbackfont{NotoSans-Regular.ttf}%
[BoldFont = NotoSans-Bold.ttf,%
ItalicFont = NotoSans-Italic.ttf,%
BoldItalicFont = NotoSans-BoldItalic.ttf,%
Path = ./fonts/Noto/,%
WordSpace = 1.25]
\DeclareTextFontCommand\textfallback{\fallbackfont}

```

## 5.2 Predefined script systems

### 5.2.1 Support for Armenian script

```

\ifx\use@script@armenian\relax
  \message{^^J [transpect-script Loaded Script: Armenian]^^J}
  \def\NotoArmenianPath{./fonts/Noto/Armenian/}
  \babelfont{armenian}%
  [BoldFont = NotoSansArmenian-Bold.ttf,%
   Path = \NotoArmenianPath,%
   WordSpace = 1.25]{NotoSansArmenian-Regular.ttf}
  \DeclareTextFontCommand\armenian{\fallbackfont@armenian}
\fi

```

### 5.2.2 Support for Chinese script

```

\ifx\use@script@chinese\relax
  \def\NotoCJKPath{./fonts/Noto/Chinese/}
  \message{^^J [transpect-script Loaded Script: Chinese]^^J}
  \babelprovide{chinese}
  \babelfont[chinese]{rm}[%

```



```

    Path=\NotoCJKPath,%
    BoldFont = NotoSansCJKsc-Bold.otf,%
    WordSpace = 1.25]{NotoSansMonoCJKsc-Regular.otf}
\DeclareTextFontCommand\chin{\selectlanguage{chinese}}
\fi

```

### 5.2.3 Support for Hebrew script

```

\ifx\use@script@hebrew\relax
\message{^^J [transpect-script Loaded Script: Hebrew]^^J}
\def\NotoHebrewPath{./fonts/Noto/Hebrew/}
\babelprovide{hebrew}%
\babelfont[hebrew]{rm}[%
    Scale=MatchUppercase,%
    Ligatures=TeX,%
    BoldFont = NotoSerifHebrew-Bold.ttf,%
    Path=\NotoHebrewPath Serif/,%
    Contextuals=Alternate]{NotoSerifHebrew-Regular.ttf}
\babelfont[hebrew]{sf}[%
    Scale=MatchUppercase,%
    Ligatures=TeX,%
    Path=\NotoHebrewPath Sans/,%
    BoldFont = NotoSansHebrew-Bold.ttf,%
    Contextuals=Alternate%
    ]{NotoSansHebrew-Regular.ttf}
\DeclareTextFontCommand\hebrew{\selectlanguage{hebrew}}
\fi

```

</script> <\*title>

%



## Chapter 6

# transpect-title.dtx

This file provides macros and facilities for title pages.

```
%%  
%% module for le-tex transpect.cls for maketitle.  
%%  
%% Maintainer: p.schulz@le-tex.de  
%%  
%% lualatex - texlive > 2019  
%%  
\NeedsTeXFormat{LaTeX2e}[2019/01/01]  
\ProvidesPackage{transpect-title}  
[2020/22/04 0.90 le-tex transpect title module]
```

Localized labels for meta data in the imprint:

```
\def\@tempa{%  
  \def\lectoratename{Lectorate: }%  
  \def\qualificationname{Qualification: }%  
  \def\translatorname{Translator: }%  
  \def\appraisername{Appraiser: }%  
  \def\coverdesignname{Cover design: }%  
  \def\coverimagenamename{Cover illustration: }%  
  \def\QandAname{Quality Assurance: }%  
  \def\typesettername{Layout: }%  
  \def\printname{Printed by }%  
  \def\isbnname{Print-ISBN}%  
  \def\eisbnname{PDF-ISBN}%  
  \def\epubisbnname{EPUB-ISBN}%  
  \def\editorabbrevname{(Ed.)}%  
  \def\conversionname{Conversion: }%  
  \def\volname{Volume}%  
  \def\keywordsname{Keywords: }%  
  \def\copyrightDisclaimernamename{All rights reserved!}%
```

```

\def\discussionname{Discussion: }%
\def\biblioinfoname{{\sffamily\bfseries Bibliographic
information published by the Deutsche Nationalbibliothek}\\
The Deutsche Nationalbibliothek lists this publication in the
Deutsche Nationalbibliografie; detailed bibliographic data
are available in the Internet at \url{http://dnb.d-nb.de}}
%
\def\cctextname{PLEASE SPECIFY THE LICENCE TEXT WITH THE \verb«\
cctext« MACRO!}%
}
\expandafter\addto\expandafter\captionsbritish\expandafter{\
@tempa}
\expandafter\addto\expandafter\captionsUKenglish\expandafter{\
@tempa}
\expandafter\addto\expandafter\captionsenglish\expandafter{\
@tempa}
\expandafter\addto\expandafter\captionsamerican\expandafter{\
@tempa}
\expandafter\addto\expandafter\captionsUSenglish\expandafter{\
@tempa}

\def\@tempa{%
\def\lectoratename{Lektorat: }
\def\translatorname{Übersetzer: }%
\def\qualificationname{Qualifikationsnachweis: }%
\def\coverdesignname{Umschlaggestaltung: }%
\def\coverimagenamename{Umschlagabbildung: }%
\def\appraisernamename{Gutachter: }%
\def\QandAname{Korrektorat: }%
\def\typesettername{Satz: }%
\def\printname{Druck: }%
\def\isbnnamename{Print-ISBN}%
\def\eisbnnamename{PDF-ISBN}%
\def\epubisbnnamename{EPUB-ISBN}%
\def\editorabbrevname{(Hg.)}%
\def\conversionname{Konvertierung: }
\def\volname{Band}%
\def\keywordsname{Schlagworte: }%
\def\discussionname{Besprechung: }%
\def\copyrightDisclaimernamename{Alle Rechte vorbehalten. Die
Verwertung der Texte
und Bilder ist ohne Zustimmung des Verlages urheberrechtswidrig
und
strafbar. Das gilt auch für Vervielfältigungen, Übersetzungen,
Mikroverfilmungen und für die Verarbeitung mit elektronischen
Systemen.}%
\def\biblioinfoname{{\sffamily\bfseries Bibliografische
Information der Deutschen Nationalbibliothek}\\
Die Deutsche Nationalbibliothek verzeichnet diese Publikation
in der Deutschen Nationalbibliografie; detaillierte

```

```

        bibliografische Daten sind im Internet über \url{http://dnb
        .d-nb.de} abrufbar.}%
\def\cctextname{Dieses Werk ist lizenziert unter der Creative
        Commons Attribution-NonCommercial-NoDerivs 4.0 Lizenz (BY-NC
        -ND). Diese Lizenz erlaubt die private Nutzung, gestattet
        aber keine Bearbeitung und keine kommerzielle Nutzung.
        Weitere Informationen finden Sie unter \url{https://
        creativecommons.org/licenses/by-nc-nd/4.0/deed.de}\\
Um Genehmigungen für Adaptionen, Übersetzungen, Derivate oder
        Wiederverwendung zu kommerziellen Zwecken einzuholen, wenden
        Sie sich bitte an \@publweb\\
Die Bedingungen der Creative-Commons-Lizenz gelten nur für
        Originalmaterial. Die Wiederverwendung von Material aus
        anderen Quellen (gekennzeichnet mit Quellenangabe) wie z.B.
        Schaubilder, Abbildungen, Fotos und Textauszüge erfordert ggf.
        weitere Nutzungsgenehmigungen durch den jeweiligen
        Rechteinhaber.}
}
\expandafter\addto\expandafter\captionsgerman\expandafter{\@tempa
}
\expandafter\addto\expandafter\captionsgerman\expandafter{\@
@tempa}

\def\the@authorinfos{}
\let\authormark\@empty
\def\authorinfo#1#2{\expandafter\def\expandafter\the@authorinfos\
        \expandafter{\the@authorinfos{\bfseries #1} #2\par}}
\def\edition#1{\def\@edition{#1}} \edition{}%
\def\editor#1{\def\@editor{#1}} \editor{}%
\def\volume#1{\def\@volume{#1}} \volume{}%
\def\subtitle#1{\def\@subtitle{#1}} \subtitle{}%
\def\logo#1{\let\@logo\@empty\if!#1!\else\def\@logo{\
        includegraphics{#1}}\fi} \logo{}
\def\thanks#1{\def\@thanks{#1}} \thanks{}
\def\biblioInfo#1{%
        \def\@biblioInfo{\biblioinfona}%
        \if!#1!\else\def\biblioInfo{#1}\fi} \biblioInfo{}
\def\publ#1{\def\@publ{#1}} \publ{}
\def\publyear#1{\def\@publyear{#1}} \publyear{}
\def\place#1{\def\@place{#1}} \place{}
\long\def\editorial#1{\long\def\@editorial{#1}} \editorial{}
\newif\ifdocopydisclaimer \docopydisclaimertrue

\def\copyrightDisclaimer#1{\def\@copyrightDiscl{#1}}
\copyrightDisclaimer{\copyrightDisclaimername}
\newif\ifprintpublinfo \printpublinfotrue
\def\environmentDisclaimer#1{\def\@envdiscl{#1}} \
        environmentDisclaimer{Gedruckt auf alterungsbeständigem Papier
        mit chlorefrei gebleichtem Zellstoff.}
\def\publweb#1{\def\@publweb{#1}} \publweb{}

```

```

\def\publgesamt#1{\def\@publgesamt{#1}} \publgesamt{}
\def\dedication#1{\def\@dedication{#1}} \dedication{}
\def\lectorate#1{\def\@lectorate{#1}} \lectorate{}
\def\translator#1{\def\@translator{#1}} \translator{}
\def\qualification#1{\def\@qualification{#1}} \qualification{}
\def\appraiser#1{\def\@appraiser{#1}} \appraiser{}
\def\coverDesign#1{\def\@coverdesign{#1}} \coverDesign{}
\def\coverImage#1{\def\@coverimage{#1}} \coverImage{}
\def\QandA#1{\def\@QandA{#1}} \QandA{}
\def\typesetter#1{\def\@typesetter{#1}} \typesetter{}
\def\print#1{\def\@print{#1}} \print{}
\def\isbn#1{\def\@isbn{#1}} \isbn{}
\def\eisbn#1{\def\@eisbn{#1}} \eisbn{}
\def\epubisbn#1{\def\@epubisbn{#1}} \epubisbn{}
\def\doi#1{\def\@doi{#1}} \doi{}
\def\conversion#1{\def\@conversion{#1}} \conversion{}
\def\shorttext#1{\def\@shorttext{#1}} \shorttext{}
\def\keywords#1{\def\@keywords{#1}} \keywords{}
\def\discussion#1{\def\@discussion{#1}} \discussion{}
\def\ccimage#1{\def\@ccimage{#1}} \ccimage{}
\def\cctext#1{\def\cctextname{#1}} \AtBeginDocument{\cctext{\cctextname}}
\def\grantlogo#1{\def\@grantlogo{#1}} \grantlogo{}
\def\granttext#1{\def\@granttext{#1}} \granttext{}

\def\maketitle{%
  \bgroup
  %% Seite i
  \parindent\z@
  \def\UrlFont{\rmfamily\itshape}%
  \fontsize{9.5}{11}\selectfont
  \thispagestyle{empty}%
  \ifx\@editor\@empty
    \@author
  \else
    \@editor\space\editorabbrevname
  \fi\par
  \vskip.5\baselineskip
  {\large\@title\par}%
  \vfill
  \ifx\@edition\@empty\else{\sffamily\fontsize{10.5}{11}\selectfont\@edition}\ifx\@band\@empty\else\enskip\lower.5\dp\strutbox\hbox{\rule{.5\p@}{\ht\strutbox}}\enskip \volname~\@volume\fi\fi
  \clearpage
  %% Seite ii
  \thispagestyle{empty}%
  \if\@editorial\@empty\null\else{\parskip\baselineskip\textsf{Editorial}\par\@editorial}\fi\par
  \vfill

```

```

\ifx\the@authorinfos\@empty\else\the@authorinfos\fi
\clearpage
%% Seite iii
\thispagestyle{empty}%
\textsc{\large\ifx\@editor\@empty
\@author
\else
\@editor\space(Hg.)
\fi}\par
\vskip5\p@
{\sffamily{fontsize{15.5}{19}\selectfont\@title}\par
\vskip5\p@
\fontsize{10.5}{12}\selectfont\ifx\@subtitle\@empty\else\
\@subtitle\par\fi}%
\vfill
\@logo
\clearpage
%% Seite iv
\thispagestyle{empty}%
\ifx\@thanks\@empty\@null\else\@thanks\fi\par
\ifx\@dedication\@empty\else\vskip\baselineskip\@dedication\
\par\fi
\ifx\@shorttext\@empty\else\vskip\baselineskip\@shorttext\par\
\fi
\vfill
{\@biblioInfo}\par%
\ifx\@ccimage\@empty
\docopydisclaimertrue
\else
\vskip\baselineskip
\includegraphics{\@ccimage}\\
{\footnotesize\cctextname}\par
\fi
\ifx\@grantlogo\@empty\else
\vskip\baselineskip
\includegraphics{\@grantlogo}\\
{\footnotesize\@granttext}\par
\fi
\vskip\baselineskip
{\sffamily\bfseries \textcopyright\space\@publyear\space\@publ
,\space\@place}\par%
\vskip\baselineskip
\ifdocopydisclaimer\@copyrightDiscl\fi\par
\vskip\baselineskip
\bgroup
\parindent-5mm\leftskip5mm
\ifx\@qualification\@empty\else \qualificationname\
\@qualification\par\fi
\ifx\@conversion\@empty\else \conversionname\@conversion\par\
\fi

```

```

\ifx\@coverdesign\@empty\else \coverdesignname\@coverdesign\
  par\fi
\ifx\@coverimage\@empty\else \coverimagenamename\@coverimage\par\
  fi
\ifx\@lectorate\@empty\else \lectoratename\@lectorate\par\fi
\ifx\@QandA\@empty\else \QandAname\@QandA\par\fi
\ifx\@translator\@empty\else \translatorname\@translator\par\
  fi
\ifx\@appraiser\@empty\else \appraisernamename\@appraiser\par\fi
\ifx\@discussion\@empty\else \discussionname\space\
  @discussion\par\fi
\ifx\@typesetter\@empty\else \typesettername\@typesetter\par\
  fi
\ifx\@print\@empty\else \printname\@print\par\fi
\ifx\@isbn\@empty\else \isbnname\space\@isbn\par\fi
\ifx\@eisbn\@empty\else \eisbnname\space\@eisbn\par\fi
\ifx\@epubisbn\@empty\else \epubisbnname\space\@epubisbn\par\
  fi
\ifx\@doi\@empty\else {\def\UrlFont{\rmfamily}\url{https://
  doi.org/\@doi}}\par\fi
\ifx\@keywords\@empty\else \keywordsname\space\@keywords\par\
  fi
\egroup
\ifprintpublinfo
  \vskip\baselineskip
  \@envdiscl\
  \@publweb\
  \@publgesamt
\fi
\egroup
\global\let\@subtitle\@empty
\global\let\@author\@undefined
\clearpage}
\global\let\@author\@empty

```

</title> <\*floats>

%



## Chapter 7

# transpect-floats.dtx

This module provides handlers for floating objects like tables and figures common to all Transpect projects

```
%%  
%% module for le-tex transpect.cls that extends floating objects.  
%%  
%% Maintainer: p.schulz@le-tex.de  
%%  
%% lualatex - texlive > 2019  
%%  
\NeedsTeXFormat{LaTeX2e}[2019/01/01]  
\ProvidesPackage{transpect-floats}  
[2020/22/04 0.90 le-tex transpect floats module]
```

Hard dependencies

```
\usepackage{tabularx}  
\usepackage{multirow}  
\usepackage{caption}
```

Additional column types:

- Q** Like tabularx's X but left aligned
- W** Like tabularx's X but right aligned
- L** Like p but left aligned
- P** Like p but left aligned
- C** Like tabularx's X but centered
- Z** Like p but centered
- e** Used to expand whitespaces evenly between columns. Used between the descriptor for the first and the second physical column and does itself not provide a column!

```

\newcolumntype{Q}{>{\raggedright\arraybackslash\unskip}X}
\newcolumntype{W}{>{\raggedleft\arraybackslash\unskip}X}
\newcolumntype{L}{>{\raggedright\arraybackslash\unskip}p}
\newcolumntype{P}{>{\RaggedRight\arraybackslash\unskip}p}
\newcolumntype{R}{>{\raggedleft\arraybackslash\unskip}p}
\newcolumntype{C}{>{\centering\arraybackslash\unskip}X}
\newcolumntype{Z}{>{\centering\arraybackslash\unskip}p}
\newcolumntype{e}{!{\extracolsep{\fill}}}

\newbox \tp@subfltbox
\newcount\tp@subflts \tp@subflts=\z@ \relax
\newdimen\tp@subflt@maxheight \tp@subflt@maxheight=\z@ \relax
\newdimen\tp@subflt@sep \tp@subflt@sep=\fboxsep \relax
\newdimen\tp@subflt@hsize \tp@subflt@hsize=\textwidth \relax

\def\tp@provide@setting#1#2{%
  \expandafter\def\csname #1\endcsname{\@ifnextchar[{\csname @#1\endcsname}{\csname @#1\endcsname[]}}}%]
  \expandafter\def\csname @#1\endcsname[##1]##2{\ltx@LocalExpandAfter\gdef\csname #2\if!##1!\else##1\fi\endcsname{##2}}%
}

\tp@provide@setting{tpCaptionLabelSep}{tp@cap@lbl@sep@}
\tp@provide@setting{tpCaptionSourceSep}{tp@cap@src@sep@}
\tp@provide@setting{tpCaptionLegendSep}{tp@cap@lgd@sep@}
\tp@provide@setting{tpCaptionSep}{tp@cap@sep@}
\tp@provide@setting{tpAboveFloatSkip}{tp@above@flt@skip@}
\tp@provide@setting{tpBelowFloatSkip}{tp@below@flt@skip@}
\tp@provide@setting{tpSubFloatSep}{tp@subflt@sep@}

\def\tp@reset@subflts{%
  \global\tp@subflts=\z@
  \global\tp@subflt@maxheight=\z@ \relax
}

\def\tpFigure{\@ifnextchar[{\tp@Figure}{\tp@Figure[!]}]%]
\def\tp@Figure[#1]{\tp@float[#1]{figure}}
\def\endtpFigure{\endtp@float}

```

#1: float pos #2: caption type

```

\def\tp@float[#1]#2{%
  \begingroup
  \tp@reset@subflts
  \tp@reset@caption{0}%
  \def\@captype{#2}%

```

```

\def\Fig##1{\ltx@LocalExpandAfter\gdef\csname tp@subflt@fig@
the\tp@subflts\endcsname{##1}}%
\def\Caption##1{\ltx@LocalExpandAfter\gdef\csname
tp@subflt@cpt@\the\tp@subflts\endcsname{##1}}%
\def\Legend##1{\ltx@LocalExpandAfter\gdef\csname
tp@subflt@lgd@\the\tp@subflts\endcsname{##1}}%
\def\Source##1{\ltx@LocalExpandAfter\gdef\csname
tp@subflt@src@\the\tp@subflts\endcsname{##1}}%
\def\Label##1{\ltx@LocalExpandAfter\gdef\csname tp@subflt@lbl@
the\tp@subflts\endcsname{##1}}%
\parindent\z@
\ifx\csname tp@above@flt@skip@\@capttype\endcsname\relax\else
\expandafter\addvspace\expandafter{\csname tp@above@flt@skip@
\@capttype\endcsname}%
\fi
}

\def\endtp@float{%
\tp@subflt@hsize=\hsize\relax
\ vbox{%
\ bgroup
\@tempdima=\z@\relax
\ifnum\tp@subflts=\z@\relax
\tp@usefloat0%
\else
\sh@iterate{\@tempcnta}{\@ne}{\tp@subflts}{%
\edef\@tempa{\CalcRatio{\tp@subflt@maxheight}{\csname
tp@subflt@height@\the\@tempcnta\endcsname}}%
\ifnum\@tempcnta>\@ne\global\advance\tp@subflt@hsize-\
tp@subflt@sep\relax\fi
\expandafter\@tempdimc\csname tp@subflt@width@\the\
@tempcnta\endcsname\relax
\@tempdimb=\@tempa\@tempdimc\relax
\expandafter\edef\csname tp@subflt@adj@width@\the\
@tempcnta\endcsname{\the\@tempdimb}%
\advance\@tempdima\@tempdimb
}%
\@tempcnta\z@

```

2nd iteration: Calculate width ratio of all adjusted subfigures against total width of all figures plus separators and output:

```

\sh@iterate{\@tempcnta}{\@ne}{\tp@subflts}{%
\edef\@tempa{\CalcRatio{\csname tp@subflt@adj@width@\the
\@tempcnta\endcsname}{\@tempdima}}%
\@tempdimb=\@tempa\tp@subflt@hsize\relax
\ifnum\@tempcnta>\@ne\hskip\tp@subflt@sep\fi
\begin{minipage}[t]{\@tempdimb}%
\captionsetup{margin=\z@}%
\tp@usefloat{\the\@tempcnta}%

```

```

        \end{minipage}%
    }%
    \fi
    \egroup
    \expandafter\ifx\csname tp@subflt@cpt@0\endcsname\relax\else
        \tp@make@caption{0}%
    \fi
}
\ifx\csname tp@below@flt@skip@\@capttype\endcsname\relax\else
    \expandafter\vskip\csname tp@below@flt@skip@\@capttype\endcsname
\fi
\endgroup
}

\def\tp@usefloat#1{%
    \parindent\z@
    \csname tp@subflt@fig@#1\endcsname\nobreak\par
    \expandafter\ifx\csname tp@cap@sep@\@capttype\endcsname\relax\else
        \expandafter\vskip\csname tp@cap@sep@\@capttype\endcsname
    \fi
    \expandafter\ifx\csname tp@subflt@cpt@#1\endcsname\relax\else
        \tp@make@caption{#1}%
    \fi
}

\def\tp@make@caption#1{%
    {\edef\tp@cap{%
        \expandafter\ifx\csname tp@subflt@lbl@#1\endcsname\relax\else
            \csname tp@subflt@lbl@#1\endcsname%
            \csname tp@cap@lbl@sep@\@capttype\endcsname%
        \fi
        \csname tp@subflt@cpt@#1\endcsname%
        \expandafter\ifx\csname tp@subflt@lgd@#1\endcsname\relax\else
            \csname tp@cap@lgd@sep@\@capttype\endcsname%
            \csname tp@subflt@lgd@#1\endcsname%
        \fi
        \expandafter\ifx\csname tp@cap@src@sep@\@capttype\endcsname\relax\else%
            \csname tp@cap@src@sep@\@capttype\endcsname%
            \csname tp@subflt@src@#1\endcsname
        \fi}%
    \expandafter\caption\expandafter*\expandafter{\tp@cap}%
    \addcontentsline{lof}{figure}{\string\numberline{\csname
        tp@subflt@lbl@#1\endcsname}\csname tp@subflt@cpt@#1\endcsname\csname
        tp@subflt@src@#1\endcsname}%
    \tp@reset@caption{#1}%
}

```

```

\def\tp@reset@caption#1{
  \ltx@LocalExpandAfter\global\expandafter\let\csname
    tp@subflt@fig@#1\endcsname\relax%
  \ltx@LocalExpandAfter\global\expandafter\let\csname
    tp@subflt@cpt@#1\endcsname\relax%
  \ltx@LocalExpandAfter\global\expandafter\let\csname
    tp@subflt@src@#1\endcsname\relax%
  \ltx@LocalExpandAfter\global\expandafter\let\csname
    tp@subflt@lbl@#1\endcsname\relax%
}

\def\tpSubFloat{%
  \global\advance\tp@subflts\@ne
}

\def\endtpSubFloat{%
  \setbox\tp@subfltbox\hbox{\csname tp@subflt@fig@\the\tp@subflts\
    endcsname}%
  \expandafter\xdef\csname tp@subflt@width@\the\tp@subflts\
    endcsname{\the\wd\tp@subfltbox}%
  \expandafter\xdef\csname tp@subflt@height@\the\tp@subflts\
    endcsname{\the\ht\tp@subfltbox}%
  \expandafter\ifdim\csname tp@subflt@height@\the\tp@subflts\
    endcsname>\tp@subflt@maxheight\relax
    \expandafter\global\expandafter\tp@subflt@maxheight=\csname
      tp@subflt@height@\the\tp@subflts\endcsname\relax
  \fi}

%%%%%%%%%%
% LEGACY %
%%%%%%%%%%

% \renewcommand \thefigure
% {\@arabic\c@figure}
% %% TODO: Projektspezifisch!
% \@removefromreset{figure}{chapter}

% \renewcommand \thetable
% {\@arabic\c@table}
% %% TODO: Projektspezifisch!
% \@removefromreset{table}{chapter}

% \captionsetup{%
% format=plain

```

```
% ,labelformat=empty
% ,font+=it
% ,singlelinecheck=false
% ,justification=RaggedRight
% ,listformat=empty
% }
```

## 7.1 Sources

Many Transpect projects use different markup for the caption of a floating object and its source.

```
% \newlength\aboveSourceSkip \aboveSourceSkip0mm

% \newcommand\transpectBild[3][\tr@nspectFloat{#1}{#2}{#3}}
% \newcommand\transpectTab[3][\aboveSourceSkip1mm\let\use@depth
% \relax\tr@nspectFloat{#1}{#2}{#3}}
% \let\transcriptBild\transpectBild
% \let\transcriptTab\transpectTab

% \newbox\tr@nspectFlt
% \newdimen\tr@nspectFltWd
% \newdimen\tr@nspectWd
% \newdimen\tr@nspectHt
% \newdimen\tr@nspectSep
```

## 7.2 Scaling graphics to a common height

The `\sameheight` macro is used to scale all figures incorporated via `\includesubgraphics` to a common height such that the line of graphics fills `\shhsize` (`\hsize` by default).

```
% \newbox\@includesubgraphicsbox
% \newcount\c@includesubgraphics \c@includesubgraphics\z@
% \newdimen\includesubgraphics@maxheight
% \newdimen\subgraphicssep \subgraphicssep\fbboxsep
% \newdimen\sh@margins
% \RequirePackage{ltxcmds}

% \newcommand*\includesubgraphics[2][\%
% \global\advance\c@includesubgraphics\@ne
% \ltx@LocalExpandAfter\gdef\csname subgraphics@caption@\the\
% \c@includesubgraphics\endcsname{#1}%
% \ltx@LocalExpandAfter\gdef\csname subgraphics@name@\the\
% \c@includesubgraphics\endcsname{#2}%
```

```
% \setbox\@includesubgraphicsbox\hbox{\includegraphics{#2}}%
% \ltx@LocalExpandAfter\xdef\csname subgraphics@width@\the\
%   c@includesubgraphics\endcsname{\the\wd\@includesubgraphicsbox
% }%
% \ltx@LocalExpandAfter\xdef\csname subgraphics@height@\the\
%   c@includesubgraphics\endcsname{\the\ht\@includesubgraphicsbox
% }%
% \expandafter\ifdim\csname subgraphics@height@\the\
%   c@includesubgraphics\endcsname>\includesubgraphics@maxheight\
%   relax
% \ltx@LocalExpandAfter\global\expandafter\
%   includesubgraphics@maxheight=\csname subgraphics@height@\the\
%   c@includesubgraphics\endcsname\relax
% \fi}
```

```
% % \def\sameheight#1{%
% % \bgroup
% % \tp@reset@subflts
```

measurement

```
% % \setbox\@tempboxa\hbox{#1}%
```

1st iteration: Calculate widths of all subfigures when scaled up to the highest subfigure's height: \@tempdima: total sum of those widths

```
% % \@tempdima=\z@ \relax
% % \sh@iterate{\@tempcnta}{\@ne}{\tp@subflts}{%
% % \edef\@tempa{\CalcRatio{\tp@subflt@maxheight}{\csname
% %   tp@subflt@height@\the\@tempcnta\endcsname}}%
% % \ifnum\@tempcnta>\@ne\global\advance\@shhsize-\tp@subflt@sep\
% %   relax\fi
% % \expandafter\@tempdimc\csname tp@subflt@width@\the\@tempcnta\
% %   endcsname\relax
% % \@tempdimb=\@tempa\@tempdimc\relax
% % \expandafter\edef\csname tp@subflt@adj@width@\the\@tempcnta\
% %   endcsname{\the\@tempdimb}%
% % \global\advance\@tempdima\@tempdimb
% % }%
```

2nd iteration: Calculate width ratio of all adjusted subfigures against total width of all figures plus separators and output:

```
% % \@tempcnta\z@
% % \sh@iterate{\@tempcnta}{\@ne}{\tp@subflts}{%
% % \edef\@tempa{\CalcRatio{\csname tp@subflt@adj@width@\the\
% %   \@tempcnta\endcsname}{\@tempdima}}%
% % \@tempdimb\@tempa\@shhsize\relax
% % \edef\@tempb{\csname subgraphics@name@\the\@tempcnta\
% %   endcsname}%
```

```

% % \ifnum \@tempcnta > \@ne \hskip \subgraphicssep \fi
% % \def \@igopts {width=\linewidth}%
% % \begin {minipage} [b] { \@tempdimb }%
% % \captionsetup {margin=\z@}%
% % \csname subgraphics@caption@ \the \@tempcnta \endcsname %
% % \csname tp@subflt@fig@ \the \@tempcnta \endcsname
% % \expandafter \expandafter \expandafter \includegraphics \
% % \expandafter \expandafter \expandafter [ \expandafter \@igopts \
% % \expandafter ] \expandafter { \@tempb }%
% % \ifx \c@psource \@undefined \else
% % \vskip \dimexpr - \topskip + \aboveSourceSkip + .5mm \relax
% % \vtop { \captionsetup {font=footnotesize} \caption * { \c@psource
% % } }%
% % \global \let \c@psource \@undefined
% % \fi
% % \end {minipage}%
% %}%
% % \egroup
% %}

```

END: sameheight

#1: layout variant, #2 subfigures

```

% \newcommand \transcriptFixedFigure [3] [] {%
% \bgroup
% \shhszsize \hszsize
% \subgraphicssep 2mm
% \ifx #2 A \relax
% \@tempdima \z@
% \else
% \ifx #2 B \relax
% \@tempdima 20mm
% \else
% \ifx #2 C \relax
% \@tempdima 30mm
% \else
% \ifx #2 D \relax
% \@tempdima 50mm
% \fi
% \fi
% \fi
% \fi
% \advance \shhszsize - \@tempdima
% \sh@margin .5 \@tempdima
% \vskip 1 \baselineskip
% \captionsetup {margin=\sh@margin \relax}%
% \if ! #1 ! \else #1 \fi
% \hskip \sh@margin \sameheight { #3 }%
% \ifx \c@psource \@undefined \else

```



```

% \vskip\aboveSourceSkip
% \captionsetup{font=footnotesize, skip=-1mm}%
% \caption*{\c@psource}%
% \global\let\c@psource\@undefined
% \fi
% \egroup}

% \def\capsource#1{\def\c@psource{#1}}%

% \let\oldfigure\figure
% \let\oldendfigure\endfigure

% \renewenvironment{figure}{\savenotes\oldfigure}{\oldendfigure\spewnotes}

% \long\def\tr@nspectFloat#1#2#3{%
% \def\@rgi{#1}%
% \setbox\tr@nspectFlt\hbox{#3}%
% \tr@nspectFltWd=\wd\tr@nspectFlt\relax
% \tr@nspectHt=\dimexpr\ht\tr@nspectFlt\ifx\use@depth\relax+\dp\tr@nspectFlt\fi\relax
% \tr@nspectSep\dimexpr(\textwidth-\tr@nspectFltWd)/2\relax
% \vskip\baselineskip
% \ifdim\tr@nspectFltWd<.5\textwidth\relax
% \bgroup
% %\tr@nspectSep4mm
% \tr@nspectWd\dimexpr\textwidth-\tr@nspectFltWd\relax
% \noindent\begin{minipage}[\ifx\use@depth\relax t\else b\fi][\tr@nspectHt][t]{\tr@nspectWd}%
% \captionsetup{justification=RaggedRight}%
% \captionof{figure}{#2}%
% \ifx\@rgi\@empty\else
% \vfill
% \captionsetup{font=footnotesize, skip=\z@}%
% \caption*{#1}%
% \vspace*{\dimexpr-\dp\tr@nspectFlt-1mm}%
% \fi
% \end{minipage}\hfill
% \begin{minipage}[t][\tr@nspectHt]{\tr@nspectFltWd}\centering
% \unhbox\tr@nspectFlt%
% \end{minipage}%
% \egroup
% \else
% \noindent\hskip\tr@nspectSep
% \begin{minipage}{\tr@nspectFltWd}\centering%
% \captionof{figure}{#2}%
% \unhbox\tr@nspectFlt\par
% \ifx\@rgi\@empty\else
% \captionsetup{font=footnotesize, skip=-1mm}\caption*{#1}%

```

```

% \vspace*{\dimexpr-\dp\tr@nspectFlt-1mm}%
% \fi
% \end{minipage}%
% \fi
% \vskip\baselineskip
% \global\let\use@depth\@undefined
% \tr@nspectWd\z@% \tr@nspectSep\z@
% }

\def\tablefont{\small}
\def\arraystretch{1.3}
\def\@tabular{%
  \leavevmode
  \hbox \bgroup\tablefont $\col@sep\tabcolsep \let\d@llarbegin\
    begingroup%$
                                \let\d@llarend\endgroup
  \ifx\ST@tableformat\@undefined\gdef\@tablefont{\tablefont}\fi
  \@tabarray}
\let\@classzold\@classz
\def\@classz{%
  \expandafter\ifx\d@llarbegin\beginngroup
    \toks \count@ =
    \expandafter{\expandafter\@tablefont\the\toks\count@}%
  \fi
  \@classzold}
\def\endtabular{%
  \endarray
  $\egroup}%$
\expandafter\let\csname endtabular*\endcsname=\endtabular

```

</floats>