The transpect.dtx Package $^{\rm 1}$

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 $^{^1{\}rm This}$ package was created by le-tex publishing services, Leipzig. This file has version 0.90.

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${\bf File~II}\\ {\bf Implementation}$

<*class>

\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-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 LATEX'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\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 derivates:

```
\usepackage{color}
\usepackage{graphicx}
\usepackage{soul}
\usepackage{transpect-headings}
\usepackage{transpect-floats}
```

Inclusion of transpect-endnotes

```
\RequirePackage{transpect-endnotes}
```

Inclusion of transpect-title

```
% \RequirePackage{transpect-title}

\usepackage[breaklinks,linktocpage,pdfborder={0 0 0},pdfencoding=
    auto,bookmarksnumbered=true] {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.

```
</helpers> <*headings>
```

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Chapter 3

transpect-headings.dtx

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

Headings are handled differently with transpect.cls compared to standard IATEX, 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 IATEX are no longer sufficient. At the same time, the package does not redefine those macros and keeps them available for backwards compatibility.

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\tpUseHeadingBlock#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 level: used for toc entries. -1 for part, 0 for chapter, 1 for section, etc.
- 2 name: part, chapter, section, etc, to be used in toc, head lines, bookmarks, etc.
- 3 Property definitions and switches

```
\def\tpDeclareHeading#1#2#3{%
  \expandafter\def\csname heading@#2@name\endcsname{#2}%
  \def\tpHeadingProperty##1##2{\tpAddToHook{##1#2}{##2}}%
```

3.2.1 Block hooks

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

```
\tpDeclareBlock{Author}{#2}%
```

Formatting and upper/lower boundaries of the subtitle

```
\tpDeclareBlock{Subtitle} {#2}%
```

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

```
\tpDeclareBlock{Quote} {#2}%
```

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

```
\tpDeclareBlock{Number} {#2} %
```

3.2.2 Heading-wide hooks

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

```
\tpDeclareHook{BlockFormat#2}%
```

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#2}%
```

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

```
\tpDeclareHook{AfterHeading#2}%
```

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

```
\tpDeclareHook{AfterSkip#2}%
```

format of the actual heading title

```
\tpDeclareHook{TitleFormat#2}%
```

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.

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@#2\endcsname\@empty}%
```

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

```
\def\tpHangFixed##1{\expandafter\gdef\csname tp@hang@fixed@#2\
    endcsname{##1}}%
\tpHangFixed{\z@}%
```

Evaluation of user's overrides

```
\tp@init@l@{#2}%
#3
```

Once a heading level is declared, we can now provide the facilities to output the headings. This code largely resembles LATEX's \@startsection mechanism, albeit with some tweaks.

3.2.3 Providing the actual heading macro

```
\expandafter\def\csname tpUseHeading#2\endcsname{%
 \xdef\heading@level{#1}%
 \edef\Hy@toclevel{\csname toclevel@#1\endcsname}%
 \if@noskipsec \leavevmode \fi
 \par\tpUseHook{BeforeHeading#2}%
 \@afterindenttrue
 \everypar{}%
 \def\@svsec{%
   \bgroup
    \parindent\z@ \parskip\z@
    \tpUseHook{BlockFormat#2}%
    \expandafter\ifx\csname tp@author@fter@#2\endcsname\relax
      \tpUseHeadingBlock{Author} {#2}%
    \fi
    \expandafter\ifx\csname tp@hang@number@#2\endcsname\@empty
      \expandafter\@tempdimb\dimexpr\csname tp@hang@fixed@#2\
          endcsname\relax
      \ifdim\@tempdimb>\z@\relax\else
       \setbox\z@\hbox{\tpUseHook{TitleFormat#2}\
           tpUseHeadingBlock {Number} {#2}\strut} %
       \@tempdimb\wd\z@
      \fi
      \expandafter\@tempdima\dimexpr\hsize-\@tempdimb\relax
      \hskip\@tempdimb\vbox\bgroup
       \hsize\@tempdima\relax
       \hskip-\@tempdimb
    \fi
    {\tpUseHook{TitleFormat#2}%
     \tpUseHeadingBlock {Number} {#2} %
     \heading@Title}%
    \tpUseHeadingBlock{Subtitle} {#2}%
    \expandafter\ifx\csname tp@author@fter@#2\endcsname\relax\
        else
      \tpUseHeadingBlock{Author} {#2}%
    \expandafter\ifx\csname tp@hang@number@#2\endcsname\@empty
      \vss\egroup
    \fi
```

```
\tpUseHeadingBlock{Quote} {#2}%
```

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

catch LATEX's referencing facility with some magick for hyperref:

Entry in table of contents

```
\expandafter\ifnum\heading@level<\c@tocdepth\relax
\ifx\heading@Toctitle\relax
\ifx\heading@Number\relax
\addcontentsline{toc}{#2}{\heading@Title}\relax
\else
\addcontentsline{toc}{#2}{\protect\numberline{\heading@Number}\heading@Title}\relax
\fi
\else
\addcontentsline{toc}{#2}{\heading@Toctitle}\relax
\fi
\else
\addcontentsline{toc}{#2}{\heading@Toctitle}\relax
\fi
\fi</pre>
```

Running headers

```
\ifx\heading@Runtitle\relax
\ifx\heading@Number\relax
  \csname #2mark\endcsname{\heading@Title}%
\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!

Skip after the heading, taken partially from the definition of LaTeX's \@xsect macro:

```
\expandafter\ifx\csname tp@hook@AfterSkip#2\endcsname\@empty
 \global\@tempskipa=1sp\relax
\else
 \expandafter\expandafter\expandafter\global\expandafter\
     expandafter\@tempskipa\expandafter=\csname
     tp@hook@AfterSkip#2\endcsname\relax%
\ifdim\@tempskipa <\z@\relax
 \global\@afterindentfalse
 \expandafter\gdef\expandafter\@svsechd\expandafter{\@svsec}%
 \@nobreakfalse
 \global\@noskipsectrue
 \global\everypar{%
   \if@noskipsec
    \global\@noskipsecfalse
    {\setbox\z@\lastbox} %
    \clubpenalty\@M
    \begingroup \@svsechd \endgroup
    \unskip
    \hskip -\@tempskipa
   \else
    \clubpenalty \@clubpenalty
    \everypar{}%
   \fi}%
 \ignorespaces
\else
 \@svsec
 \par \nobreak
 \vskip \@tempskipa
 \global\@afterindentfalse
 \aftergroup\@afterheading%
\fi}}
```

3.3 The headings environment

```
\def\heading{\@ifnextchar [{\@heading}{\@heading[]}}%]
\DeclareRobustCommand{\TitleBreak} {\hfill\break}
\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@Runtitle\relax
   \global\let\heading@Quote\relax
   \global\let\@optarg\relax
   \global\let\ltx@label\label
   \global\let\tp@label\relax
   \bgroup
```

handling of the optional argument

```
\xdef\@optarg{#1}%
```

The mandatory argument contains the section level, this corresponds to LATEX'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}}%
\def\runtitle##1{\gdef\heading@Runtitle{##1}}%
\def\number##1{\gdef\heading@Number{##1}}%
\long\def\quote##1{\long\gdef\heading@Quote{##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
\csname tpUseHeading\heading@name\endcsname
\egroup
}
```

3.4 Facility for ToC and ListOf entries

```
\def\tp@init@l@#1{%
\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's number

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

If greater than 0pt, use hanging indent of that width, needs to be defined as a dimension.

```
\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

Separator between the heading title and the page number

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

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

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

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

Generically provide LATEX's internal toc entry formatting macros:

```
\expandafter\def\csname 1@#1\endcsname##1##2{%
   \addpenalty{-\@highpenalty}%
   \csname tp@toc@before@#1\endcsname
   \expandafter\ifx\csname tp@toc@hangnum@#1\endcsname\@empty
    \expandafter\@tempdima\csname tp@toc@hangfixed@#1\endcsname
   \else
    \def\numberline###1{%
      \setbox\@tempboxa\hbox{####1\csname tp@toc@numsep@#1\
         endcsname}}%
    \sbox\z@{##1}%
    \expandafter\@tempdima\wd\@tempboxa%
   \def\numberline####1{####1\csname tp@toc@numsep@#1\endcsname}%
   \begingroup
    \parindent \z@ \rightskip \@pnumwidth
    \parfillskip -\@pnumwidth
    \leavevmode
    \csname tp@toc@format@#1\endcsname
    \advance\leftskip\@tempdima
    \hskip -\@tempdima
    ##1\nobreak
    \csname tp@toc@pagesep@#1\endcsname
    \nobreak\hb@xt@\@pnumwidth{\hss\csname tp@toc@pageformat@#1\
        endcsname ##2%
      \kern-\p@\kern\p@}\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}%
 응응
 \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}%
```

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```
\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
 \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}}%
```

3.6 ToC entries

```
% \def\1@part#1#2{%
```

```
% \ifnum \c@tocdepth >-2\relax
% \addpenalty{-\@highpenalty}%
% \addvspace{2.25em \@plus\p@}%
% \setlength\@tempdima{3em}%
% \begingroup
% \parindent \z@ \rightskip \@pnumwidth
% \parfillskip -\@pnumwidth
% {\leavevmode
% \large \bfseries #1\hfil
% \hb@xt@\@pnumwidth{\hss #2%
% \kern-\p@\kern\p@}}\par
% \nobreak
% \global\@nobreaktrue
% \everypar{\global\@nobreakfalse\everypar{}}%
% \endgroup
% \fi}
% \renewcommand*\l@section{\@dottedtocline{1} {1.5em} {2.3em}}
% \renewcommand*\l@subsection{\@dottedtocline{2}{3.8em}{3.2em}}
% \renewcommand*\l@subsubsection{\@dottedtocline{3}{7.0em}{4.1em
% \renewcommand*\l@paragraph{\@dottedtocline{4}{10em}{5em}}
% \renewcommand*\l@subparagraph{\@dottedtocline{5}{12em}{6em}}
```

</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}
    [2020/22/04 0.90 le-tex transpect endnotes module]
```

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

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

package options:

- endnotes activates endnotes.
- reset notesperchapter 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\endnotestrue} 
\DeclareOption{resetnotesperchapter} {\global\let\ reset@notes@per@chapter\relax}
```

```
\DeclareOption{endnotesperchapter} {\global\endnotestrue\global\left\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}
 \let\footnote=\endnote
 \def\enotesize{\normalsize}%
 \def\enoteformat{\leavevmode\hskip-2em\hb@xt@2em{\@theenmark\hss
     }}%
 \def\enoteheading{%
   \ifcollection
    \ifx\endnotes@per@chapter\relax
      \chapter*{\notesname}%
      \addcontentsline{toc} {chapter} {\notesname} %
    \else
      \section* {\notesname} %
      \addcontentsline{toc} {chapter} {\notesname} %
    \fi
   \else
    \chapter*{\notesname}%
    \addcontentsline{toc} {chapter} {\notesname} %
  \fi
  \leftskip2em
 } 왕
 \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
\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>

용

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 automaticly 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>
```

용

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\coverimagename{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\copyrightDisclaimername{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 Nati-onalbibliografie; 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{\bulletbersetzer: }%
 \def\qualificationname{Qualifikationsnachweis: }%
 \def\coverdesignname{Umschlaggestaltung: }%
 \def\coverimagename {Umschlagabbildung: } %
 \def\appraisername{Gutachter: }%
 \def\QandAname{Korrektorat: }%
 \def\typesettername{Satz: }%
 \def\printname{Druck: }%
 \def\isbnname{Print-ISBN} %
 \def\eisbnname{PDF-ISBN} %
 \def\epubisbnname{EPUB-ISBN} %
 \def\editorabbrevname{(Hg.)}%
 \def\conversionname{Konvertierung: }
 \def\volname{Band}%
 \def\keywordsname{Schlagworte: }%
 \def\discussionname{Besprechung: } %
 \def\copyrightDisclaimername{Alle Rechte vorbehalten. Die
     Verwertung der Texte
 und Bilder ist ohne Zustimmung des Verlages urheberrechtswidrig
 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\captionsngerman\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{\biblioinfoname} %
 \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 chlorfrei 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
   \parindent\z@
   \def\UrlFont{\rmfamily\itshape}%
   \fontsize{9.5}{11}\selectfont
   %% Seite i
   \thispagestyle{empty}%
   \ifx\@editor\@empty
    \@author
   \else
    \@editor\space\editorabbrevname
   \fi\par
   \@title\par
   \vfil1
   \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\
\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\
```

```
\ifx\@coverdesign\@empty\else \coverdesignname\@coverdesign\
    \ifx\@coverimage\@empty\else \coverimagename\@coverimage\par\
    \ifx\@lectorate\@empty\else \lectoratename\@lectorate\par\fi
    \ifx\@QandA\@empty\else \QandAname\@QandA\par\fi
    \ifx\@translator\@empty\else \translatorname\@translator\par\
    \ifx\@appraiser\@empty\else \appraisername\@appraiser\par\fi
    \ifx\@discussion\@empty\else \discussionname\space\
        @discussion\par\fi
    \ifx\@typesetter\@empty\else \typesettername\@typesetter\par\
    \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\
    \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
 \egroup
 \global\let\@subtitle\@empty
 \global\let\@author\@undefined
 \clearpage}
\global\let\@author\@empty
```

```
</title> <*floats>
```

ę

Chapter 7

transpect-floats.dtx

This module provides handlers for floating objects like tables and figires 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
- ${f C}$ 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}}}
\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\transcriptBild[3][] {\tr@nscriptFloat{#1} {#2} {#3}}
\newcommand\transcriptTab[3][] {\aboveSourceSkip1mm\let\use@depth\\\\relax\tr@nscriptFloat{#1} {#2} {#3}}
\newbox\tr@nscriptFlt
\newdimen\tr@nscriptFltWd
\newdimen\tr@nscriptHt
\newdimen\tr@nscriptHt
\newdimen\tr@nscriptHt
\newdimen\tr@nscriptSep
```

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\fboxsep
\newdimen\shhsize \shhsize=\hsize\relax
\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
   \ltx@LocalExpandAfter\global\expandafter\
      includesubgraphics@maxheight=\csname subgraphics@height@\
      the\c@includesubgraphics\endcsname\relax
 \fi}
```

```
\def\sameheight#1{%
\bgroup
\let\c@psource\@undefined
\c@includesubgraphics=\z@\relax
\let\@shhsize
\includesubgraphics@maxheight=\z@\relax
```

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

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}{\c@includesubgraphics}{%
 \edef\@tempa{\CalcRatio{\csname subgraphics@adjusted@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%
   \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
 \end{minipage} %
\egroup
```

END: sameheight

#1: layout variant, #2 subufigures

```
\newcommand\transriptFixedFigure[3][]{%
\bgroup
```

```
\shhsize\hsize
 \subgraphicssep2mm
 \ifx#2A\relax
   \@tempdima\z@
 \else
   \ifx#2B\relax
    \@tempdima20mm
   \else
    \ifx#2C\relax
      \@tempdima30mm
    \else
      \ifx#2D\relax
       \@tempdima50mm
      \fi
    \fi
   \fi
 \fi
 \advance\shhsize-\@tempdima
 \sh@margins.5\@tempdima
 \vskip1\baselineskip
 \verb|\captionsetup{margin=\sh@margins\relax}| %
 \if!#1!\else#1\fi
 \hskip\sh@margins\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@nscriptFloat#1#2#3{%
 \def\@rgi{#1}%
 \setbox\tr@nscriptFlt\hbox{#3}%
 \tr@nscriptFltWd=\wd\tr@nscriptFlt\relax
 \tr@nscriptHt=\dimexpr\ht\tr@nscriptFlt\ifx\use@depth\relax+\dp\
     tr@nscriptFlt\fi\relax
 \tr@nscriptSep\dimexpr(\textwidth-\tr@nscriptFltWd)/2\relax
 \vskip\baselineskip
 \ifdim\tr@nscriptFltWd<.5\textwidth\relax
   \bgroup
```

```
%\tr@nscriptSep4mm
    \tr@nscriptWd\dimexpr\textwidth-\tr@nscriptFltWd\relax
    \noindent\begin{minipage} [\ifx\use@depth\relax t\else b\fi] [\
        tr@nscriptHt][t]{\tr@nscriptWd}%
      \captionsetup{justification=RaggedRight}%
      \captionof{figure}{#2}%
      \ifx\@rgi\@empty\else
       \vfill
      \captionsetup{font=footnotesize, skip=\z@} %
      \caption*{#1}%
      \vspace*{\dimexpr-\dp\tr@nscriptFlt-1mm}%
     \fi
    \end{minipage} \hfill
    \begin{minipage} [t] [\tr@nscriptHt] {\tr@nscriptFltWd} \
        centering
      \unhbox\tr@nscriptFlt%
    \end{minipage} %
   \egroup
 \else
   \noindent\hskip\tr@nscriptSep
   \begin{minipage} {\tr@nscriptFltWd} \centering%
    \captionof{figure} {#2}%
    \unhbox\tr@nscriptFlt\par
    \ifx\@rgi\@empty\else
      \captionsetup{font=footnotesize, skip=-1mm} \caption* {#1} %
      \vspace*{\dimexpr-\dp\tr@nscriptFlt-1mm}%
    \fi
  \end{minipage} %
 \vskip\baselineskip
 \global\let\use@depth\@undefined
 \tr@nscriptWd\z@% \tr@nscriptSep\z@
\def\tablefont{\nsffamily\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\begingroup
   \toks \count@ =
   \expandafter{\expandafter\@tablefont\the\toks\count@}%
  \fi
  \@classzold}
```

```
\def\endtabular{%
  \endarray
  $\egroup}%$
\expandafter\let\csname endtabular*\endcsname=\endtabular
```

</floats>