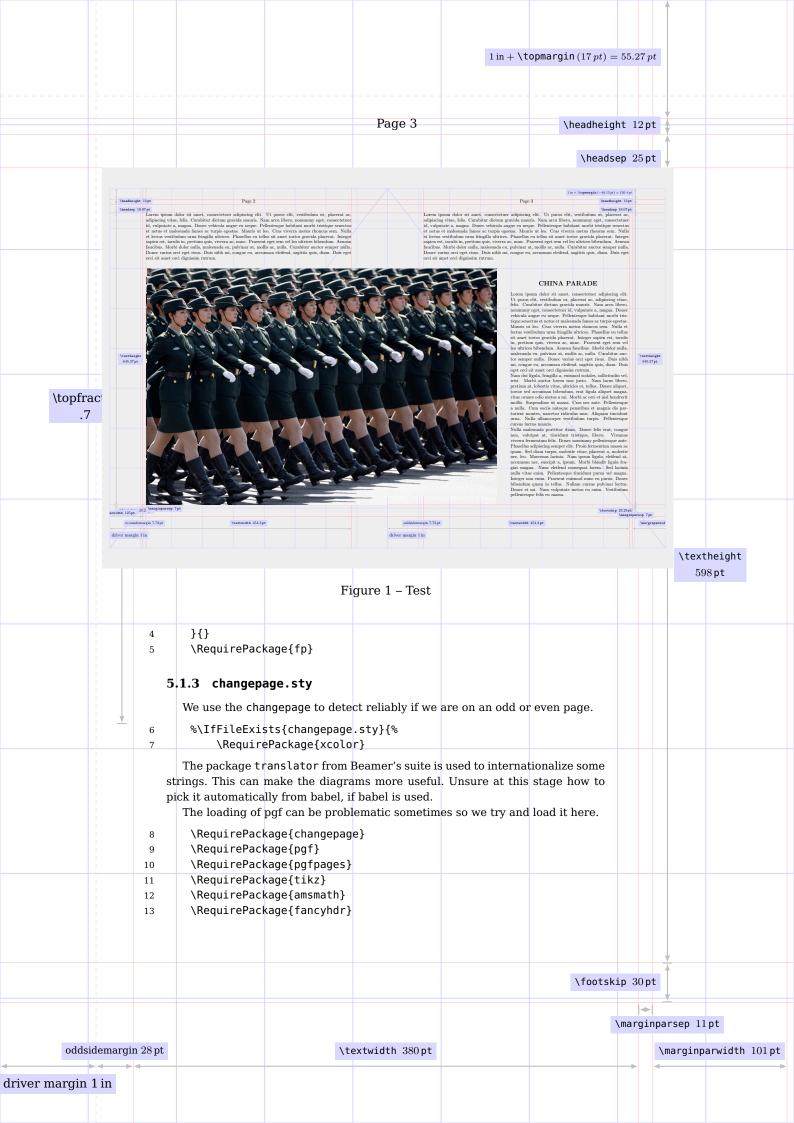
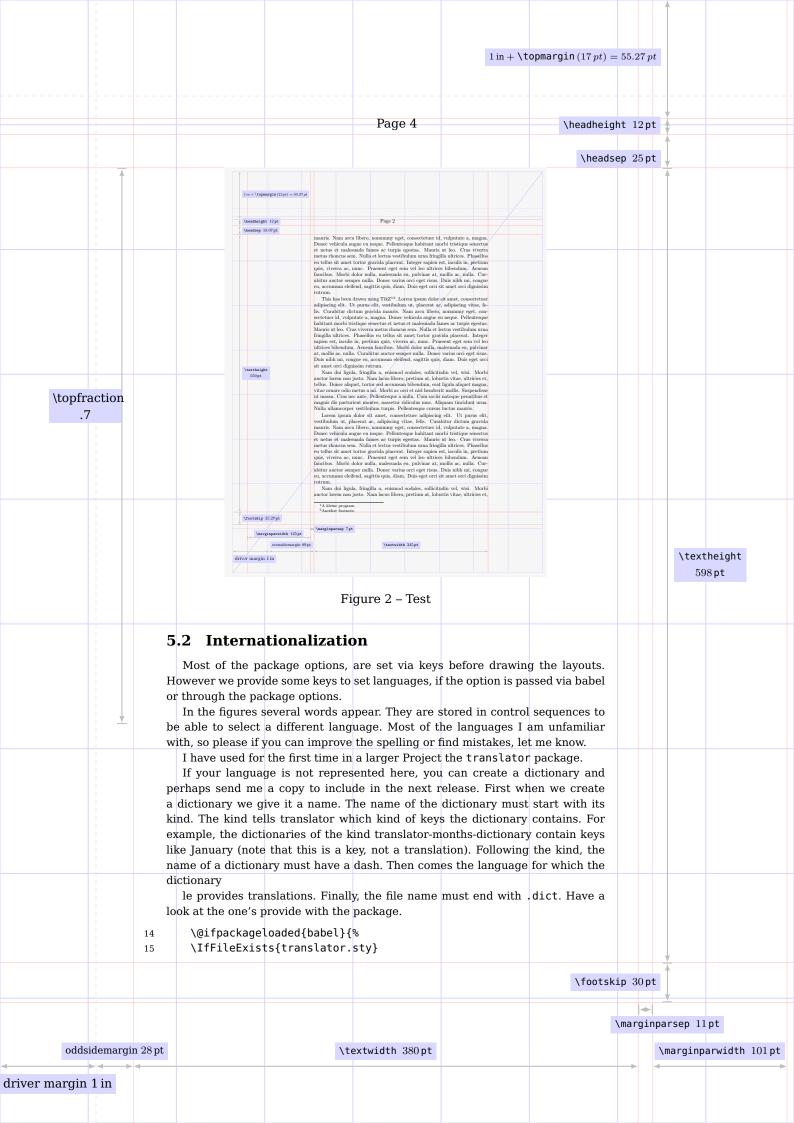
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		149	-		color=blue!15,					
		150 151	-		color=blue!15, line width=0 8n	_				
		151 152			line width=0.8p rrow type=latex					
		153	- 1	eometry units=						
		154	ge	eometry grid x	xsteps=9,					
		155	-	eometry grid y						
		156			r lines=dashed,					
		157	ge	ometry arive	r lines color=b	)lue!15}				\textheight
	\ag	rid T	he macro \agrid	is the main dra	awing command.	It draws the lay	out.			598 pt
		158								
		159	\newcommand\							
		160			olor=\geometryl					
		161			lor=black!25,th	_		-		
		162 163			le={color=black ine width=\geom	_		x},		
		163 164	9		color=\geometr					
		165	dı		{\geometrydrive		, 			
		166				erlinescolor@c	x}}			
		167				_				
		168	1		mber picture, o	-				
				-	on an odd or an					
			checkoddpage fro re treated as odd		page package. For e switch to true	r oneside docum	ents all pages			
						' \morain_'	'' 'baiaht \\h	- ما د و	. ,	
		169 170	\pgfmathsetl \checkoddpag	_	\PH-lin-\voffse	t-\topmargin-	/headheigni- /ii	eause	ep}	
		170 171	' T	ge% de we treat th	hem as odd					
		172		\else\oddpaget						
		173	\ifoddpage	9						
		174		rmargin\oddsid	-		_			
		175 176		_	\INNER}{lin+\in	-	ffset}			
		176 177	\gdef\ \else	,1nnermar y±mmo	ame{oddside	≱margın}}₀				
		1//	(0.00						*	
							\footski	ip 30 p	ot	
							,	margi	npar	rsep 11pt
oddei	domarai	- 20 nt		\ <del>+</del>					\ m	reiman deth 101 nt
ouusi	demargir	1 28 pt		V.C	textwidth $380\mathrm{pt}$			-	\III	arginparwidth 101pt
driver margin	1 in								-	
1										

									†	
						$1 in + \t$	$topmargin\left(17pt ight) =$	55.27 p	ot	
					Page 9		\headheigh	nt 12 pt	t	
							\headse	ep 25 p	t 🗸	
		178		argin\evensi	_	marain+\h	-ff-0+l		1	
		179 180	\gdef\in	-	\INNER}{lin+\i name{evensi	innermargin+\ho idemargin}}%	JTTSel}			
	1	181 V	\fi We need to shift the wh	-bala lawout i	andon to achie	on integral n	hor of arids			
			We need to shift the whether this is done with calcs		n order to acmo	ve an ilitegrama	imber or grids			
		182	\calcshift@cx		·ftugov veh	'C' \chifty@c	,			
	1	183 V	\begin{scope}[; We will first draw the g			ift=-\shifty@cx features of the pa				
		t	this using the grid sh	hape. All \dr	raw commands a	are detailed, rath	her than using			
			coordinates. This was easier the steps in dra							
		184	%							
		185 186				tep=\PH/\ysteps grid ++(\PW,\PH				
		ť	5.6 The driver							
		,	Printer's cannot alvone inch margin for the				uth allowed a			
	\hoffse		Adjustment to the on				hoffset and			
	\voffse	set \	\voffset. All major c	classes set tl	these offsets at 2	zero. Some pack	kages such as			
			the crop may use these			ito the stock pap	er.		\te	extheight
i		187 188	\draw [driver] \draw [driver]			);			E e	598 pt
				_						
			5.7 Crop mark		ill print	The				
i		1	If the option crop is at the four corners of t		ckage wiii priiit (	crop marks. The	se are printeu			
i		189	%\draw [line wio		_					
i		190 191			30mm) circle(2. .7.5mm,-2.5mm)-	.5mm)++(-2.5mm, ++(0,5mm);	,0)			
	1	192	%							
		193 194		tockheight-3	30mm+2.5mm)					
		195 196				2.5mm,0mm)++(	(5mm,0);			
		196								
			5.8 Vertical lin							
					the vert	1 lines We als	1.fma.come			
			For no particular re co-ordinates to reduce			Cal lines. we and	o deille some			
		198	\draw [lines]							
		199 200	\draw [lines] \ifoddpage	(\INNEK+\L	extwidtn,u,	++(0,\PH);				
		1. S	See discussion at tex.sx						<b> </b>	
							\footski	ip 30 p	t	
								+	+	
							Ý	margir	nparsep 1	11 pt
oddsi	idemargin 2	28 pt		\te	extwidth $380\mathrm{pt}$				\margir	nparwidth 101pt
driver margin	1 in								4	
4										

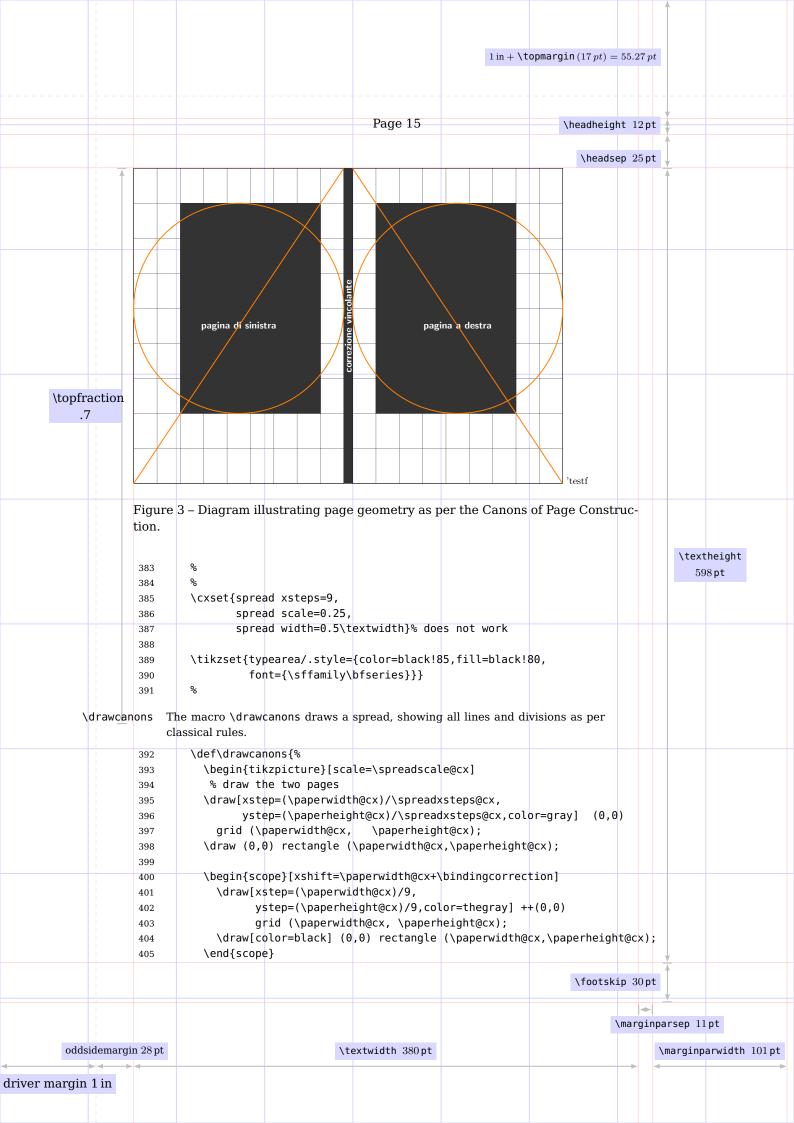
```
1 \text{ in} + \text{\topmargin} (17 pt) = 55.27 pt
                                                              Page 10
                                                                                              \headheight 12pt
                                                                                                \headsep 25pt
                                  \draw[lines] (\INNER+\textwidth+\marginparsep,0)
                      201
                                     -- (\INNER+\marginparsep+\textwidth,\PH);
                      202
                      203
                                  \draw[lines] (\INNER+\textwidth+\marginparsep+\marginparwidth,0)
                      204
                                      -- (\INNER+\marginparsep+\marginparwidth+\textwidth,\PH);
                      205
                                \else
                      206
                                  \draw [lines] (\INNER-\marginparsep,0) -- ++(0,\PH);
                                  \draw [lines] (\INNER-\marginparsep-\marginparwidth,0) -- ++(0,\PH);
                      208
                           5.9 Horizontal lines
                              Next we draw the horizontal lines.
                                \draw [lines](0,\PH-lin-\topmargin)-- ++(\PW,0);
                      209
                                \draw [lines](0,\PH-lin-\topmargin-\headheight)-- ++(\PW,0)
                      210
                                  node[black,above] at ++(-0.5\PW,0){Page \thepage};
                                \draw [lines](0,\TOP) -- ++(\PW,0);
                      212
                      213
                                \draw [lines](0,\TOP-\textheight) -- ++(\PW,0);
                      214
                                \draw [lines](0,\TOP-\textheight-\footskip) -- ++(\PW,0);
                           5.10 Two column document
                              A two column document, just subdivides the text area into two equal parts
                           with a gutter in between. Next we draw the vertical lines and the dimensions
                           for two column layouts. We detect if it is a twocolumn layout using the switch
                           \if@twocolumn defined by the standard classes in source2e.
                                                                                                                 \textheight
                                                                                                                    598 pt
            \columnwidth
              \columnsep
                                \if@twocolumn
                                  \draw [lines](\INNER+\columnwidth,\TOP)-- ++(0,-\textheight);
                      216
                                  \draw [lines](lin+\innermargin+\columnwidth+\columnsep,\TOP)
                      217
                                         -- ++(0,-\textheight);
                      218
                      219
                               % Draw twocolumn dimension lines
                      220
                                  \draw [dim,<->](\INNER, \TOP-\textheight-1.8em)
                                     -- ++(\columnwidth,0) node[above, dim label]
                                    at ++(-0.5\columnwidth,3pt) {\labelit@cx{\columnwidth}};
                      223
                                  \draw [dim,<->](\INNER+\columnwidth, \TOP-\textheight-1.8em)
                                     -- ++(\columnsep,0) node[above, dim label] at
                      224
                                    ++(-0.5\columnsep,3pt) {\labelit@cx{\columnsep}};
                      225
                                  \draw [dim,<->](\INNER+\columnwidth+\columnsep,
                      226
                                    \PH-lin-\topmargin-\headheight-\headsep-\textheight-1.8em)
                      227
                      228
                                     -- ++(\columnwidth,0) node[above, dim label] at
                      229
                                    ++(-0.5\columnwidth,3pt) {\labelit@cx{\columnwidth}};
                               \fi
                      230
                           We then position and draw the dimension lines and labels.
                      231
                               \ifoddpage
                      232
                                  \pgfmathsetlength\tol{lin+\innermargin+\textwidth+2\marginparsep}
                                  \draw [dim, <->](\tol,\PH)-- ++(0,-1in-\topmargin);
                      233
                               \else
                      234
                                  \pgfmathsetlength\tol{2\marginparsep}
                      235
                      236
                                  \forall draw [dim, <->](\tol,\PH)-- ++(0,-1in-\topmargin);
                               \fi
                      237
                                                                                               \footskip 30pt
                                                                                                      \marginparsep 11pt
          oddsidemargin 28\,\mathrm{pt}
                                                        \textwidth 380 pt
                                                                                                              \mbox{\mbox{\it marginparwidth}}\ 101\,\mbox{\it pt}
driver margin 1 in
```

```
1 \text{ in} + \text{\topmargin} (17 pt) = 55.27 pt
                                                              Page 11
                                                                                               \headheight 12pt
                                                                                                 \headsep 25pt
                              The top margin (not to be confused with the length \topmargin, is the total
                           length given by the driver margin (which is 1in + the \topmargin length + the
                           headheight and \headsep.
                               \pgfmathsetlength\@tempdima{lin-\topmargin}
                      238
                               \ifoddpage
                      239
                                  \draw [dim](\tol,\PH-lin-\topmargin)-- ++(0,-\headheight)
                      240
                                     node[left, dim label] at
                                     ++(-1ex,0.5in+0.5\topmargin+1.5em)
                      242
                                    {\scriptsize$1\thinspace \text{in}+\texttt{\footnotesize\textbackslash topmargin}\,
                      243
                                    (\convert@cx{\topmargin}) = \convert@cx{\@tempdima}$};
                      244
                               \else
                      245
                                  \draw [dim, <->](\tol,\PH-lin-\topmargin)-- ++(0,-\headheight)
                      246
                      247
                                    node[right, dim label] at ++(1ex,1in-0.5\topmargin)
                      248
                                    {\scriptsize$1\thinspace \text{in}+\texttt{\footnotesize\textbackslash topmargin}
                      249
                                    \, (\convert@cx{\topmargin})= \convert@cx{\@tempdima}$};
                      250
                               \fi
                           5.11 headheight and headsep
                              The \headheight is normally a fixed amount that varies with the baseline of
                           the the font. In the standard classes it is defined in the .clo files. We position
                           the lines and labels on the right for odd pages and on the left for even pages.
                               \ifoddpage
                      251
                                  \draw [dim,<->](\tol,\PH-lin-\topmargin)-- ++(0,-\headheight)
                      252
                                                                                                                  \textheight
                      253
                                     node[above left, dim label] at ++(-1ex,0){ \labelit@cx{\headheight}};
                                      draw headsep
                                                                                                                     598 pt
                      254
                                  \draw [dim,<->](\tol,\PH-1in-\topmargin-\headheight)-- ++(0,-\headsep)
                      255
                                     node[above left,dim label] at ++(-lex,0){\labelit@cx{\headsep}};
                      256
                      257
                      258
                                  \draw [dim,<->](\tol,\PH-lin-\topmargin)-- ++(0,-\headheight)
                                     node[above right,dim label] at ++(lex,0){ \labelit@cx{\headheight}};
                      259
                               % draw headsep
                                  \draw [dim,<->](\tol,\PH-lin-\topmargin-\headheight)-- ++(0,-\headsep)
                                     node[above right, dim label] at ++(lex,0){\labelit@cx{\headsep}};
                      262
                      263
                           5.12 Text height
                              The \textheight is normally calculated to have an exact number of lines to
                           avoid warning messages from the TeX engine.
                               \draw [dim, |<->](\tol,\TOP)
                      264
                                   -- ++(0, \textheight) node[right,text width=1.7cm,text centered, dim label]
                      265
                                   at ++(lex,0.5\textheight){\labelit@cx{\textheight}};
                      266
                           5.13 The footskip
                              The \footskip is also a fixed number set by the classes. We position it left or
                           right to minimize clashes with other elements.
                      267
                               \ifoddpage
                      268
                                  \draw [dim, |<->|](\tol,\TOP-\textheight)
                                                                                                \footskip 30pt
                                                                                                       \marginparsep 11pt
          oddsidemargin 28\,\mathrm{pt}
                                                        \textwidth 380pt
                                                                                                               \mbox{\mbox{\it marginparwidth}}\ 101\,\mbox{\it pt}
driver margin 1 in
```

```
1 \text{ in} + \text{\topmargin} (17 pt) = 55.27 pt
                                                                                                                                        Page 12
                                                                                                                                                                                                              \headheight 12pt
                                                                                                                                                                                                                    \headsep 25pt
                                                 269
                                                                                 -- ++(0.-\footskip)
                                                 270
                                                                                node[left, dim label] at ++(-lex,0.5\footskip){\labelit@cx{\footskip}};
                                                 271
                                                                     \else
                                                 272
                                                                          \draw [dim, |<->|](\tol,\TOP-\textheight)
                                                 273
                                                                               -- ++(0,-\footskip)
                                                 274
                                                                              node[right, dim label] at ++(lex,0.5\footskip){\labelit@cx{\footskip}};
                                                                     \fi
                                                 276
                                                                     % Float parameters
                                                 277
                                                                     % topfraction on left margin
                                                 278
                                                 279
                                                                     \iftopfloat{%
                                                 280
                                                                     \draw [dim, <->|] (\INNER-0.3cm, \TOP) - ++(0, -\topfraction\textheight)
                                                 281
                                                 282
                                                                                     node[left,text width=1.7cm,text centered, dim label]
                                                                                     at ++ (0,0.4\textheight) {\textbackslash topfraction\\ \topfraction};
                                                 283
                                                                     }{}
                                                 284
                                                                     % bottom fraction
                                                 285
                                                 286
                                                                     \ifbotfloat{%
                                                                     \draw[dim, <->|] (\INNER, \TOP) ++(0, -\textheight)
                                                 287
                                                                          -- ++(0,\bottomfraction\textheight)
                                                 288
                                                                         node[left, text width=1.2cm, dim label] at
                                                 289
                                                 290
                                                                         ++(-lex,-\bottomfraction*0.5\textheight){\textbackslash bottom\\fraction\\
                                                 291
                                                                          \bottomfraction};
                                                 292
                                                                     % HORIZONTAL DIMENSIONS
                                                 293
                                                                                                                                                                                                                                                        \textheight
                                                                     \setlength\toly{1.5cm}
                                                 294
                                                                                                                                                                                                                                                               598\,\mathrm{pt}
                                                                     \draw[dim,<->](0,\toly)--++(1in,0)node [dim label] at ++(-0.4in,-1.5em)
                                                 296
                                                                     {\translate{drivermarginname} 1\thinspace in};
                                                 297
                                                                  If innermargin Opt we do not show the dimension line. Tufte-book has inner-
                                                            margin=0pt
                                                 298
                                                                     \ifdim\innermargin=0pt
                                                 299
                                                                            \displaystyle \frac{dm}{dm} = \frac{
                                                                                        at ++(-0.5\innermargin, 0.5em)
                                                 300
                                                                                        {\innermarginname\convert@cx{\innermargin}};
                                                 301
                                                                     \else
                                                 302
                                                 303
                                                                            \draw[dim,<->](0+lin,\toly)--++(\innermargin,0) node [above, dim label]
                                                                                        at ++(-0.5\innermargin,0.5em)
                                                 304
                                                                                        {\innermarginname\ \convert@cx{\innermargin}};
                                                 305
                                                                     \fi
                                                 306
                                                 307
                                                                     \draw[dim,<->](0+1in+\innermargin,\toly)--++(\textwidth,0)
                                                 308
                                                 309
                                                                          node[above, dim label] at ++(-0.5\textwidth,0.5em)
                                                                          {\labelit@cx{\textwidth}};
                                                 310
                                                            5.14 Marginpar dimensions
                                                            There are three controlling lengths that position the marginpar block. The
                   \marginparwidth
                        \marginparsep
                                                            marginparwidth is troublesome, in that some classes don't really worry about
                      \marginparpush
                                                            marginpars and they left the dimensions unchanged. For Octavo for some pa-
                                                            pers they will overflow outside the paper boundaries.
                                                                                                                                                                                                                 \footskip 30pt
                                                                                                                                                                                                                                 \marginparsep 11pt
                      oddsidemargin 28 pt
                                                                                                                           \textwidth 380 pt
                                                                                                                                                                                                                                                 \mbox{\mbox{\it marginparwidth}}\ 101\,\mbox{\it pt}
driver margin 1 in
```

```
1 \text{ in} + \text{\topmargin} (17 pt) = 55.27 pt
                                                               Page 13
                                                                                                \headheight 12pt
                                                                                                  \headsep 25pt
                                \ifoddpage
                       311
                                  \draw[dim, |<->|](\INNER+\textwidth, \toly+1.5cm)--++(\marginparsep,0)
                       312
                       313
                                     node [below, dim label] at ++(\marginparsep,-0.5em)
                       314
                                     {\labelit@cx{\marginparsep}};
                       315
                                 \draw[dim,<->](\INNER+\textwidth+\marginparsep, \toly)
                       316
                                      --++(\marginparwidth,0)
                       317
                                     node [above, dim label] at ++(-0.5\marginparwidth,0.5em)
                                     {\labelit@cx{\marginparwidth}};
                       318
                                \else
                       319
                                    \displaystyle \frac{\dim,|<->|](\INNER, \toly+1.55cm)--++(-\marginparsep,0)}{}
                       320
                                       node [right, dim label] at ++(\marginparsep,0em)
                       321
                                       {\labelit@cx{\marginparsep}};
                       322
                                \ifdim\marginparwidth<3cm % try be a more intelligent for placement
                       323
                       324
                                   \draw[dim,|<->|](0+lin+\innermargin-\marginparsep-\marginparwidth,
                                   \toly+.95cm)--++(\marginparwidth,0)node [right, dim label]
                       325
                       326
                                    at ++(0.0em)
                                   {\labelit@cx{\marginparwidth}};
                       327
                       328
                                \else
                                   \draw[dim,|<->|](\INNER-\marginparsep-\marginparwidth, \toly+.95cm)
                       329
                                   --++(\marginparwidth,0)node [above, dim label] at
                       330
                                   ++(-0.5\marginparwidth,0em){\labelit@cx{\marginparwidth}};
                       331
                       332
                                \fi
                       333
                                \fi
                            5.15 Classic layout diagonal lines
                                                                                                                   \textheight
                                                                                                                      598 pt
                              We do not attempt to draw out a full classical layout, but only to draw the
                            diagonal lines to check. This feature can be switched off. The direction of the
                            line depends if we have an odd or even page.
                       334
                                \if@diagonal
                                  \ifoddpage
                       335
                                    \draw [\diagonalcolor@cx,thick] (\PW,0)--(0,\PH);
                       336
                       337
                                     \draw [\diagonalcolor@cx,thick] (0,0)--(\PW,\PH);
                       338
                                   \fi
                       339
                                \fi
                       340
                       341
                                \end{scope}
                                \end{tikzpicture}}
                       342
                                Running head definitions
                              We define a page layout, grid to position the grid. We use the same for both
                            evenhead and oddhead.
                \ps@grid
                           In LaTeX a running header is defined using a \ps@<name> macro. We define a
                            pagestyle that can be use to draw the layout.
                                \def\ps@grid{%
                       343
                                    \let\@oddfoot\@empty\let\@evenfoot\@empty
                       344
                       345
                                    \def\@evenhead{\agrid}%
                                    \let\@oddhead\@evenhead
                                                                                                 \footskip 30pt
                                                                                                        \marginparsep 11pt
          oddsidemargin 28\,\mathrm{pt}
                                                         \textwidth 380 pt
                                                                                                                \mbox{\mbox{\it marginparwidth}}\ 101\,\mbox{\it pt}
driver margin 1 in
```

									1
						$1 \text{ in} + \t$	copmargin $(17pt)$ =	= 55.27  pt	t
					Page 14		\headheig	ıht 12 nt	<del>\</del>
					1 490 11		(incudincing	,iic 12 p c	<b>*</b>
							\heads	ep 25 pt	t
		347		kboth\@gobblet					<u> </u>
		348 349		aptermark\@gob ctionmark\@gob					
		350	}	e e comma i i i i i i i i i i i i i i i i i i	bee				
			7 Float p	arameter	S				
\figu	ıreparam	bot	The macros \fig	urenarambot att	empt to draw di	mension lines i	n figures. This		
(1190	. par all		is very much wor	k in progress, a	s to draw them		_		
			some of the interr	nals of the outpu	t routine.				
		351	\def\figure						
	1	352	-		ember picture,	-			
		353 354			tempdima{-\tex ] (0,0)++(0				
		355		[right]	1 (0)0)	, (Gremparma)			
		356	at +	+ (1ex,-0.5\te					
		357			convert@cx{\te	extfloatsep}};			
		358	tikz	picture}%					
		359 360	\par }						
	!	361	\def\figure	paramstop{%					
		362	\par						
		363			member picture				
		364			mpdima{-\textf				\textheight
		365			(0,0)++(0,\				598 pt
		366 367		lex,0.5\textfl	metrylabelcolo natsen)	) [ dcx ]			
		368			nvert@cx{\text	:floatsep}};			
	i	369	tikz						
		370	}						
			8 Spread						
			_						
			The package p		nand to draw a	two page spre	ad as per the		
					d alone diagram	s for inclusion in	nto other pack-		
			ages or LaTeX not				1, 2, 3, 3		
		371	\newlength\	paperwidth@cx					
		372		paperheight@cx					
		373	\newlength\						
		374	\newlength\						
		375 376		bindingcorrect paperwidth@cx{					
		376		paperwidth@cx{ paperheight@cx					
		378		bindingcorrect					
		379							
		380			re in=\spreadx e in=\spreadso				
		381 382			e in=\spreadst e in=\spreadwi				
			1		•				<u>*</u>
							\footsk	kip 30 pt	t
								+	7
								\margin	nparsep 11pt
odds	sidemargii	n 28 pt		\t	extwidth $380\mathrm{pt}$				\marginparwidth 101pt
<b>√</b>	1:	◀						<b> </b>	<del></del>
driver margin	1 1 <b>n</b>								



	1						1		1	
						$1 \text{ in} + \backslash t$	$copmargin\left(17pt ight) =$	= 55.27 pt		
				<del> </del>		i				
					Page 17		\headheig	ht 12pt	*	
							***			
	-	-	10 Reada	hility			\heaus	sep 25 pt	<b>+ + - -</b>	
				-		3.45 (				
			In general the This is language a		ped area should ndent.	not exceed 45-6	5 characters.			
	\ al nha					of the Engl	li-language			
	\alpha		The macro \alpha This is used later		-	-				
			metrics for the rea		-	-	0.111			
		440	\def\alphabe	-						
		441		nt\selectfont\						
		442	_	ijklmnopqrstuv						
\charact	ersperl		The macro charac							
			text. We use \pgfn			print the number	r.			
		443		\charactersper th{\@tempdima}						
		444 445		<pre>th{\@tempdima} arse{\textwidt</pre>	}{\alphabet} th/\@tempdima*2	<b>/6</b> }				
		446	\pgfmathpr	rintnumber{\pg		, ,				
		447	}							
\alphab	etsperl	ine	Some people are	more familiar v	with the metric $\epsilon$	lphabets per lin	e rather than			
			characters per line			-				
		448		\alphabetsperl						
		449 450		<pre>th{\@tempdima} arse{\textwidt</pre>						_
		450 451	\pgfmathpa \pgfmathre	arse{\textwidt esult	y\/@fellihnTilla\				\textheigh	t
		452	}	.54.0					598 pt	<b>—</b>
\alph	ahetler	nath	The macro \alpha	ahetlength prin	its the length of t	he alnhabet.				
( ~ . <sub> </sub>	ADC C C C	453	· ·	\alphabetlengt	Ū	de urphanes.				
		453 454		th{\alphlength						
		455	\pgfmathpa	arse{\alphleng	th}					
		456		rintnumber{\pg	gfmathresult}pt	i - 1				
		457	}							
					e to calculate the	ratios, as PGF	has problems			
			with large dimens		_					
		458 459		\textarearatio \result}{\stri	o{% ip@pt\textwidth	ı(\c+rin@nt\t	ovthoight}			
		460			rip@pt\textwidth rip@pt\paperwid		_			
		461	\	\resultii}{\re	esult}{\resulti		there -			
		462		hprintnumber{\	resultii}					
		463 464	}							
		464	% Calculate	the ratio tex	ktheight/paperh	reight				
		466	\newcommand\	\textheightrat	tio{%	_				
		467			ip@pt\textheigh	t}{\strip@pt\r	paperheight}			
		468 469	\FPround \result	d{\result}{\re	SULT}{2}					
		470	}							
		471		<u> </u>					<u> </u>	
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		472	% Calculate	textheight/pa	perwidth			7	
		473 474	\newcommand\	textheighttop	aperwidth{%				
		475	\pgfmath	parse{\texthe	ight/\paperwid				
		476 477			<pre>format/.cd,fix pgfmathresult}</pre>	ced,precision=	2}		
		478	}						
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		538	_							
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		563	\thebottom							
		564		e to eat all trial	dimensions. The	se default to the	e current doc			
		u:	ment, dimensions		difficitsions. The	se delauit to til	e current doc-			
		565			de=\global\set		theight@cx{#1}	,		
		566		-	fault=\texthei	-	dhairhta- ("")			
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		569		-	\global\setlen	-				
		570	try h	eadsep/.defau	lt=\headsep, %	TODO CHECK				
		571 572			=\global\setle ult=\footskip,	ngth\tryfoots	kip@cx{#1},			
		573			e=\global\setl	ength\trytopm	argin@cx{#1},		\tex	theight
		574			ault=\topmargi					98 pt
		575	}							
		576 577	try t	rimtop/.code=	\global\setlen	gth\trimtop@c	x{#1},			
		578			lt=\global\set					
		579 580	% set all th	e defaults						
		580 581	o set att til	c uclaulls						
		582	try t	-						
		583		eadheight,						
		584 585		eadsep, ootskip,						
		586	try t	opmargin=0pt,	% compensate	for trim				
		587	try t	rimtop=10pt}						
		588 589	\setlenath\t	rytopmargin@c	x{\topmargin}					
		590		, 92	,					
		591	\	014112444	o_\ al ab = 1\	ona+h (\ + !	+, ,; ,d+,b,0 }			
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		594	}	. = 5 37 . 0000	.5	J ((2. ) C( 2)	· 5 · C = · · · ) (" ± ) ]			
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		596 597		<pre>extwidth=\tex rimedge=10pt}</pre>						
\ <i>@</i> +	rydiago		he switch \@tryd			or skin the Page	Construction			
16.5	. y arago		no ownon (gerya	1490114 t 15 4504	in noyo to araw	or simp the rage			<u>†</u>	
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								∖margi	nparsep 1	1pt
oddsi	idemargi	n 28 pt		\te	extwidth $380\mathrm{pt}$				\margin	parwidth 101pt
4	<b>-</b>	4						-	<b>-</b>	<b></b>
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	1 in + \	ackslashtopmargin (17 $pt$ ) = 55.27 $pt$
	Page 21	\headheight 12pt
		\headsep 25pt
	Canon, diagonal line.	Titudes 25 p. W
598	\newif\if@trydiagonal	
599 600	\@trydiagonalfalse	
601	try diagonal/.is choice,	1 1 1 1
602	try diagonal/true/.code=\@trydiagonaltrue,	
603	try diagonal/false/.code=\@trydiagonalfalse,	
604	<pre>try diagonal/none/.code=\trydiagonalfalse}</pre>	
606	<pre>\cxset{try diagonal=false}</pre>	
\trygrid	The try grid conditional provides a switch to switch the grid on cinitially to true.	or off. We set it
607		+ + + + + + + + + + + + + + + + + + + +
607 608	<pre>\newif\iftrygrid \trygridfalse</pre>	
609	\tiyyi turatse	
610	<pre>try grid/.is choice,</pre>	
611	try grid/true/.code=\trygridtrue,	
612	<pre>try grid/false/.code=\trygridfalse,</pre>	
613	<pre>try grid/none/.code=\trygridfalse}</pre>	
614	\cycotftmy arid-truel	+ + + + + + + + + + + + + + + + + + + +
615	\cxset{try grid=true}	
	11 2 All manager for trime	
	11.2 Allowances for trims	\textheight
	Throughout we are focusing on the average LaTeX user than	n might want to 598 pt
	for example use A4 paper and trim down to a different size. We stockwidth and stockheight and we set the paperwidth and pa smaller size to cater for these trims.	e start form the
	smaller size to cater for these trims.  I call this process trimming in, whereas other packages such	ich as the cron
	increase the paper size to allow for the trims, thus displaying a la memoir class has something similar.	·
\trypaperwidth@cx	We set the length to stocksize-trimedge.	
\trypaperwidth@cx \trypaperheight@cx		
617	<pre>% set the trial paper sizes as per trim sizes \addtolength\trypaperwidth@cx{\trystockwidth@cx}</pre>	
618	\addtolength\trypaperwidth@cx{\trystockwidth@cx} \addtolength\trypaperwidth@cx{-\trytrimedge@cx}	
619	\addtolength\trypaper\width\gex{\trystockheight@cx}	+ + + + + + + + + + + + + + + + + + + +
620	\addtolength\trypaperheight@cx{-\trimtop@cx}	
621	\addtolength\trypaperheight@cx{-\bottomtrim}	
	11.2.1 Calculating the Top Margin and Bottom Marg	gin
	We calculate the top and bottom margins for convenience. Ren	member that so
	far we are only dealing with default settings. I the user changes t	
	these will have to be recalculated.	
622	%\addtolength\trymargintop@cx{lin+\voffset+\trimtop@	nacyl
623	%\addtolength\trymargintop@cx{\dimexpr(\tryheadsep@d	
624	% \tryheadheight@cx+\trytopmargin@cx)}	1
		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
		\footskip 30pt
		<u> </u>
		\marginparsep 11pt
oddsidemargin 28 p	\textwidth 380pt	\marginparwidth 101pt
<b>-</b>		
driver margin 1 in		

					<b>†</b>	
			$1 \text{ in} +        \text$	opmargin(17pt) = 55	5.27 pt	
		_			_	
		Page 22		\headheight	10 nt	
		raye 22		(Headilery)	12 pt	
	1000 All transfer to to			\headsep	25 pt	
	11.2.2 Adjustments to tex	_	··· l boing	II Llean		
	Since we are trimming-in, or the stock paper height. One is t top and bottom margins smaller height accordingly.	thus faced with the to allow for the t	e decision to eit rimming or to re	ther make the educe the text		
	Most people and publishers at reduce the text-height. We offer a on. In the meantime for the purp at the bottom margin and leave t	a method to the us pose of defaults, w	er to specify pre ve will take all tl	ferences later		
\trytextheight@cx	Let trytextheight@cx equal to	the current docum	nent\textheigh	t value.		
625	\setlength\trytextheight	t@cx{\textheight	:}			
626 627 628 629 630 631	\setlength\trymarginbott    \dimexpr(\trystockhei    -\tryheadheight@cx- \newlength\stepx	ight@cx-1in-∖tri				
	11.3 Drawing the Tri	al Lavout				
\drawtriallayout	The trial layout is drawn in a provided by the user it will defa is the current layout values.  The macro \drawtriallayout dimensions.	ult to the values v	ve have set it pr	eviously. That	\texthei 598 pt	
632 633	<pre>dim/.style = {c   \def\drawtriallayout{%</pre>	color=black,>=la	tex}}			
	We first need to check if we a accordingly. If the document is codd-side page.					
634 635 636	\checkoddpage% \if@twoside\else\oddpage \ifoddpage		į			
637 638 639	\global\setlength\tryi \setlength\d \else	-	-			
640 641 642 643	\global\setlength\try \setlength\	-	-	-		
644	\hspace*{-2cm}		ale=0.42,font	={\scriptsize\rm	nfamily},line w	idth=.8pt,
645 646	every node={color book trim/.style=	-	fill=white},			
647 648	<pre>dim text/.style={   textblock/.style=</pre>	{color=black},				
649 650	\edef-2.5\baselines	skip}				
	(505) (151) 111	7/12/		\footskip	30 pt	
				\ma	arginparsep 11pt	
oddsidemargin 28 p	ıt \	textwidth $380\mathrm{pt}$			\marginparw.	idth 101 pt
driver margin 1 in					<b>*</b>	<b></b>

```
1 \text{ in} + \text{\topmargin} (17 pt) = 55.27 pt
                                                              Page 23
                                                                                              \headheight 12\,pt
                                                                                                \headsep 25\,pt
                      651
                      652
                               \def\drawpaperwidthdim{%
                      653
                                    \coordinate (A) at (0,\tol);
                      654
                                   \coordinate (B) at (\trystockwidth@cx -\trytrimedge@cx,\tol);
                                   \coordinate (C) at (0.5\trystockwidth@cx,\tol);
                      656
                                   \draw [dim, |<->|] (A) -- (B);
                                   \node at (C) [yshift=0.5\baselineskip)]
                                   {paper width = \convert@cx{\trypaperwidth@cx} $(W_p)$};}
                      658
                      659
                               % Draw paper width dimension
                      660
                               \def\drawpaperwidthevendim{%
                      661
                                   \coordinate (A) at (0+\trytrimedge@cx,\tol);
                      662
                      663
                                   \coordinate (B) at (\trystockwidth@cx,\tol);
                                   \coordinate (C) at (0.5\trystockwidth@cx,\tol);
                      664
                                   \draw[dim, |<->|] (A) -- (B);
                      665
                                   \node at (C) [yshift=0.5\baselineskip)]
                      666
                      667
                                    {paper width = \convert@cx{\trypaperwidth@cx} $(W_p)$};
                      668
                               }
                           11.3.1 Draw stock paper
                              First we draw the stockwidth and stockheight
                      669
                               \draw [color=thegray] (0,0) rectangle
                      670
                                           ++(\trystockwidth@cx,\trystockheight@cx);
                      671
                                                                                                                 \textheight
                               % draw the paper if trims are defined and no book size given
                      672
                                                                                                                    598 pt
                               % the paper width is then defined by the dashed blue line
                      673
                      674
                               \ifoddpage
                                 \draw [book trim] (0+\lefttrim,\trystockheight@cx-\trimtop@cx)
                      675
                                        rectangle ++(\trystockwidth@cx-\lefttrim-\trytrimedge@cx,
                      676
                                        -\trystockheight@cx+\trimtop@cx+\bottomtrim);
                      677
                                        \drawpaperwidthdim
                      678
                                \else
                      679
                      680
                                 \draw [book trim] (0+\lefttrim+\trytrimedge@cx,\trystockheight@cx-\trimtop@cx)
                                        rectangle ++(\trystockwidth@cx-\lefttrim-\trytrimedge@cx,
                                        -\trystockheight@cx+\trimtop@cx+\bottomtrim);
                                       \drawpaperwidthevendim
                      684
                               \fi
                      685
                           11.3.2 Draw grid
                              Unlike the grid on page spreads we provide a conditional to switch it off if
                           necessary. It set to true by default.
                      686
                               \pgfmathsetmacro{\gridx}{10}
                      687
                               \iftrygrid
                      688
                                    \draw[xstep=(\trypaperwidth@cx-\lefttrim)/\gridx,
                      689
                                        ystep=\trypaperheight@cx/\gridx,color=thegreen!50,
                      690
                                        line width=0.4pt,yshift=\bottomtrim,xshift=\lefttrim]
                      691
                      692
                                       (0,0) grid (\trypaperwidth@cx-\lefttrim,\trypaperheight@cx);
                                                                                               \footskip 30pt
                                                                                                      \marginparsep 11pt
          oddsidemargin 28 pt
                                                        \textwidth 380 pt
                                                                                                              \mbox{\mbox{\it marginparwidth}}\ 101\,\mbox{\it pt}
driver margin 1 in
```

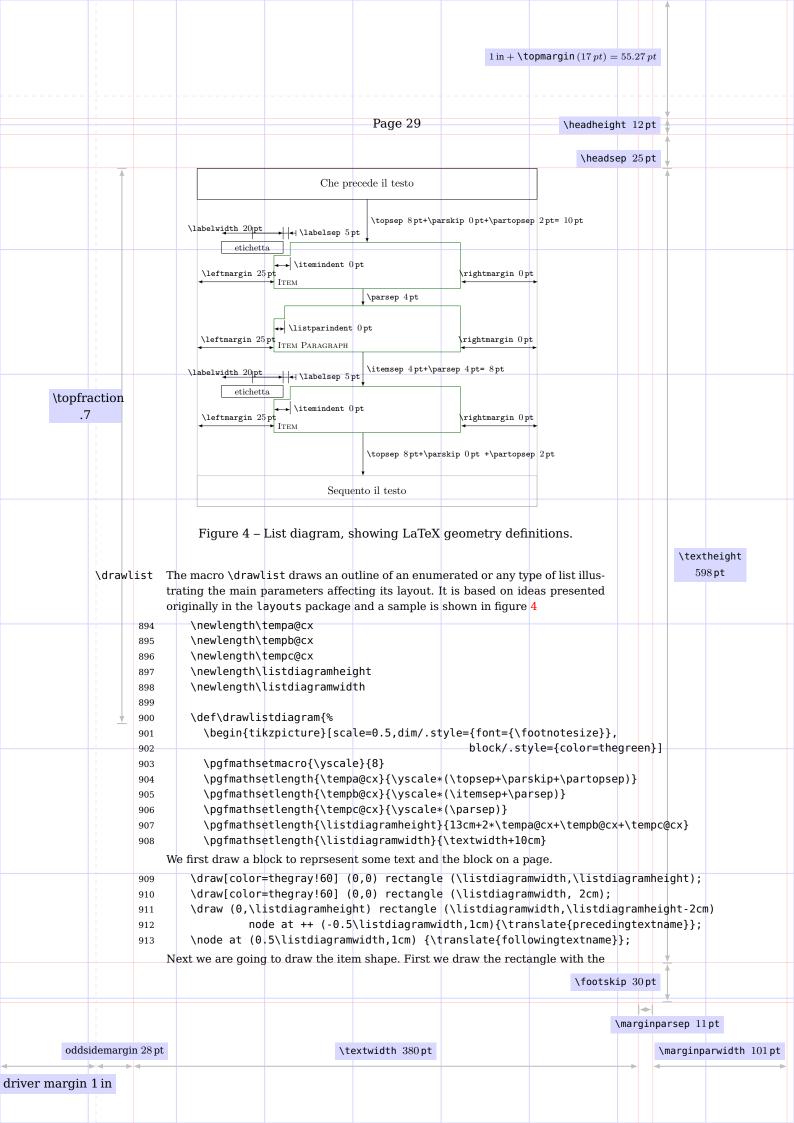
	 					(			1	
						1				
						$1 \text{ in} + \text{ \cdot c}$	$topmargin\left(17pt ight) = 0$	55.27 p	t	
					11		[			
					Page 24		\headheigh	t 12 p	t 🖟	
							) headed	25.0	1	
		-					\headse <sub> </sub>	p 25 p	t +	
		693 694	\else \draw[xste	on-(\trypape	rwidth@cx)/\gr	-i dv			Ī	
		694 695			ight@cx/\gridx		en.			
		696	line w	width=0.4pt,	yshift=\bottom	ntrim,xshift=\	trytrimedge@cx]	]		
		697	(0,0)		ypaperwidth@cx					
		698	\fi							
		699	\fi							
		1	11.3.3 Drawing	the hinding	a correction					
				Ī						
		r	The binding corre		d to the stockne	ight. It will appe	ear on the op-			
		_	oosite site in the eve	n page.						
		700	\ifoddpage	+ - akhai ah	2mm)	· (0.1cm)	-			
		701 702			t@cx + 3mm) m) ++(0.1cm		fttrim,-0.5cm)[	r _ > . >:	-1atex]	
		702		(0.5cm+\leftt		) TT( 10m ()	Itti im, O.S,	, .	= tatex,	
		704	\draw (0, \tr	rystockheight	t@cx + 3mm)					
		705	++ (0,	,0.5cm) ++	+ (\lefttrim,0					
		706		•	=latex] ++(-	1cm,0cm)				
		707 708		right] at ++( nslate{bindir		mall \convert	@cx{\lefttrim}	¢ ( \ d(	1+a h)\$	١.
		708	\fi	15 (a ( ) [ » ±	lgcorrection	illest teomes	@CX1 (CC) CC,	⊅ ( · -	211α_≈, <sub>∓</sub>	3,
		710								
		711	% stockwidth d							
		712	\edef-5\b						\text	theight
		713 714	\coordinate (E		ol); ockwidth,-5∖ba	-alinoskin):				98 pt
		714 715	\draw[dim,  <-			Sertiicavith,				
		716	\draw (BD) ++	· (0.5\stockwi	idth,0)					
		717	node [yshif	.ft=0.5\baseli	ineskip]					
		718	{stockwidth	n=\convert@c>	x{\stockwidth}	\$(W_s)\$} ;				
		719 720	% top dimensio	an at left						
		720 721			,\trystockheig	ht@cx-\trimto	ingcx);			
		721	\coordinate (F			1	pack,			
		723	\trystockh	height@cx-1ir	n-\trimtop@cx-	\trytopmargin	.@cx-			
		724			yheadsep@cx);					
		725 726	\draw [dim, <-		(H2); cm, text cente	-ad dim text]	-+			
		726 727			cm, text cente cx-0.5∗\margin		at			
		727		-	e\margintop}\\					
		729				1				
		730	% bottom dimen			1				
		731			,0+\bottomtrim					
		732 -733	\coordinate (F \draw [dim, <-		,∖trymarginbot (H4):	tom@cx);				
		733			cm,text ragged	left]				
		735	at (-5mm,0.	.5∗\trymargir	nbottom@cx)					
		736			\the\trymargi	.nbottom@cx}\\				
		737	\$(h_{b})\$}	<b>}</b> ;						
		738							<u> </u>	
							\footski	p 30 p	t 🗍	
							V	<b>→</b> margir	nparsep 11	1pt
oddei	domarqi	20 nt		\ <b>+</b> (						
ouusi	idemargir	1 28 pt		(16	extwidth $380\mathrm{pt}$	<del></del> '		<b>→</b>	(marginp	parwidth 101 pt
driver margin	1 in									

```
1 \text{ in} + \text{\topmargin} (17 pt) = 55.27 pt
                                                               Page 25
                                                                                                \headheight 12pt
                                                                                                   \headsep 25\,\mathrm{pt}
                       739
                                % textheight at left
                       740
                                \draw[dim,<->] (-5mm, \trymarginbottom@cx)
                       741
                                   -- ++ (0,\trytextheight@cx);
                       742
                                \node[left,text width=1.6cm,text centered,dim text]
                                   at (-5mm,\trymarginbottom@cx+0.5\trytextheight@cx)
                                   {\CS{textheight} \convert@cx{\trytextheight@cx}\\
                       744
                                   $(h_x)$ };
                       746
                            11.3.4 Book height
                              Book sizes are specified by the size of the final trimmed sizes. for most users
                            there is no need to worry about trims and binding corrections, however we pro-
                            vide these for consistency and for books that are perhaps to be sent to an on-line
                            bureau for printing.
                                \draw [dim, |<->|] (-4.7cm, \bottomtrim) --
                                  (-4.7cm, 0.5\trystockheight@cx-0.5\trimtop@cx)
                       749
                                  node[left,text width=1.2cm,text centered,dim text]
                                  {\translate{bookheightname}\\ \convert@cx{\trypaperheight@cx}} --
                       750
                                  (-4.7cm,\trystockheight@cx-0.5\trimtop@cx);
                       751
                            11.3.5 Draw the edge trim
                              The paper is always assumed to be trimmed at top bottom and the edge mar-
                            gin. We first draw the edge trim and its dimension.
                                                                                                                    \textheight
                       752
                                \ifdim\trytrimedge@cx>0pt
                                                                                                                       598 pt
                       753
                                 \ifoddpage
                                   \coordinate (D) at (\trystockwidth@cx-4\trytrimedge@cx,
                       754
                                                         0.10\trytextheight@cx);
                       755
                                   \coordinate (E) at (\trystockwidth@cx,0.10\trytextheight@cx);
                       756
                                   \draw [dim, ->|] (D) -- ++(3\trytrimedge@cx,0);
                       757
                                   \draw [dim, <-|] (E) -- ++ (3\trytrimedge@cx,0)
                       758
                                     node at ++(0,0) [right,text width=2cm,dim text]
                       759
                       760
                                     {\translate{trimedgename}\
                                     \convert@cx{\the\trytrimedge@cx}
                       761
                                     $(\Delta_e)$};
                       762
                       763
                                  \coordinate (D1) at (0, \trystockheight@cx+ 5mm);
                       764
                                  \coordinate (E1) at ++ (\trytrimedge@cx,\stockheight+\trimtop@cx);
                       765
                       766
                                  \draw (D1) -- ++ (0, 10mm) ++ (\trytrimedge@cx,0) -- ++ (0,-10mm) ;
                                 \fi
                       767
                                \fi
                       768
                            11.3.6 The top trim
                              The top trim is drawn next. As it is very small normally we try not to crowd
                            the label and the dimension lines. We will only show it if it has a value.
                       769
                       770
                                %\ifdim\trimtop>0pt
                       771
                                  \coordinate (F) at (0.9\trystockwidth@cx,\trystockheight@cx-\trimtop@cx-8mm);
                                  \coordinate (G) at (0.9\trystockwidth@cx,\trystockheight@cx-\trimtop@cx);
                       772
                                                                                                 \footskip 30pt
                                                                                                         \marginparsep 11pt
          oddsidemargin 28 pt
                                                         \textwidth 380 pt
                                                                                                                \mbox{\mbox{\it marginparwidth}}\ 101\,\mbox{\it pt}
driver margin 1 in
```

```
1 \text{ in} + \text{\topmargin} (17 pt) = 55.27 pt
                                                              Page 26
                                                                                              \headheight 12pt
                                                                                                 \headsep 25pt
                                 \coordinate (H) at (0.9\trystockwidth@cx,\trystockheight@cx);
                      773
                      774
                                 \draw (F)[dim,->|,>=latex] -- (G);
                      775
                                 \draw (H) -- ++ (0,8mm) -- ++ (5mm,0)[|<-|,>=latex]
                      776
                                          node [text width=2cm, right] at ++ (0,3pt) {\translate{trimtopname}\
                      777
                                          \\ \convert@cx{\the\trimtop@cx} $(\Delta_t)$};
                      778
                               %\fi
                           11.3.7 Driver offsets
                              Next we draw the driver offsets. The lines are drawn at the left side of the
                           paper both for even and for odd paper. Of course they are meaningless if the
                           printer is going to print them on an A3 paper for example, and then the paper is
                           trimmed.
                                   \draw[fill=olive] (1in,\trystockheight@cx-1in) circle (1.5mm);
                      779
                      780
                                  \draw[dashed,color=olive] (1in,0) -- (1in,\trystockheight@cx);
                                   \draw[dashed,color=olive] (0in,\trystockheight@cx-lin)-- ++ (\trystockwidth@cx,0);
                      781
                                   \draw [dim,|<->|](0,0.3cm)-- (lin,0.3cm) node at (0.5in,0.6)[dim text] {\translate{oneinch
                              Draw the inner margin. We use innermargin which has already been set to
                           either oddsidemargin or evensidemargin
                      783
                               % Draw left = 1in + innermargin
                      784
                               \setlength\tryleftmargin@cx{\dimexpr(lin+\innermargin)}
                      785
                               \langle draw [dim, | <-> |] (0in, 1.9cm) -- (1in+ \langle innermargin, 1.9cm)
                      786
                      787
                               node at (0.6in,3.2cm)[text width=lin,dim text,text centered]
                                                                                                                 \textheight
                      788
                               {$(w_i)$\\ \convert@cx{\tryleftmargin@cx}\\inner margin};
                                                                                                                    598\,\mathrm{pt}
                      789
                                \draw (lin,1.2cm)[|<->|] -- ++(\innermargin,0) node[right,dim text]
                      790
                      791
                                {\innermarginname\ \convert@cx{\the\innermargin} $(\Delta_i)$};
                      792
                      793
                                    add topmargin dimension
                      795
                               \setlength{\@tempdimc}{\dimexpr(1in-\trimtop@cx+\trytopmargin@cx)\relax}
                      796
                               \coordinate (S1) at (\trystockwidth@cx+3ex,\trystockheight@cx-\trimtop@cx);
                      797
                               \draw[dim, <->|] (S1)
                      798
                                      -- ++ (0,-\@tempdimc-\trimtop@cx)
                      799
                      800
                                     node [right, dim text, text width=3.5cm] at
                      801
                                      ++(2ex,0.5\@tempdimc) {\convert@cx{\@tempdimc} $(\delta_t)$
                      802
                               \\ \textbackslash topmargin \convert@cx{\trytopmargin@cx}};
                           11.3.8 Draw the running head
                              The running head is drawn measuring from the top of the page.
                               \pgfmathsetlength{\@tempdimb}{\trystockheight@cx-
                      803
                      804
                                                     \trimtop@cx-lin-\trytopmargin@cx}
                      805
                                \draw[textblock] (\tryINNER, \@tempdimb)
                      806
                                         rectangle ++ (\trytextwidth@cx,-\tryheadheight@cx);
                      808
                               % add headheight dimension
                      810
                               \draw [dim,-|,>=stealth] (\trystockwidth@cx+3ex, \@tempdimb)
                                                                                               \footskip 30pt
                                                                                                      \marginparsep 11pt
          oddsidemargin 28 pt
                                                        \textwidth 380 pt
                                                                                                              \mbox{\mbox{\it marginparwidth}}\ 101\,\mbox{\it pt}
driver margin 1 in
```

								<b>†</b>
						$1 \text{ in} +        \text$	$opmargin\left(17pt ight)=5$	55.27~pt
								- -
					Page 27		\headheight	t 12 pt
								1
							\headsep	25 pt
		811 812		++(0,-\tryhead 2ex,0.3\tryhea	height@cx) noc dheight@cx)	le [right,dim	text] at	
		813				he\tryheadhei	ght@cx $} $(h_{-}{h},$	h})\$};
		814	% %% add hea	deen dimensia				
		815 816		adsep dimensio  -,] (\trystoc	n kwidth@cx+3ex,			
		817	\@temp	odimb-\tryhead	height@cx-\try	headsep@cx)		
		818 819			p@cx) node [ri dsep@cx){h	-	] at	
		820			ryheadsep@cx}			
		1	<b>1.3.9</b> Type an	rea				
	1		Next we add th	ie type area and	its dimension.			
		821		(J) at (\tryI		lhadah±0\		
		822 823			ep@cx-\tryhead angle ++ (\try		-\trytextheight	@cx);
		824	\draw[dim,<	-> ,dim text]	(\tryINNER,0.7			
		825 826	1	ytextwidth@cx,		asolinoskin)(	\labelit@cx{\te	v+wid+hll•
		827	node at 4	r(-0.5(trytext	widthdex, 0.0 (t	asetineskip) (	(tabetitgex(\te	xtwidings,
		828		theight dimens				
		829 830			kwidth@cx+3ex, dsep@cx-\tryhe			
		831				-	t, text width=2	.5cm] \textheight
		832		+(2ex,0.5\tryt	_	+ha\ + ry+ay+ha	ight@cvl¢(h v)¢	508 nt
		833	{\C5	{ textileIght} \\	\	(the\trytexthe	ight@cx}\$(h_x)\$	
		1	1.3.10 Foote	r				
			Add the footer	and its dimension	on.			
		834		(I) at (\tryI				
		835		@tempdimb-\try	headsep@cx- cx-\trytexthei	abtecy \tryfo	otskip@cv):	
		836 837					\tryheadheight@	ocx);
		838					@tempdimb-\tryh	eadsep@cx-
		839 840	,	5 -	ytextheight@cx ) node [right,	•		
		841	++(2ex,0	0.5∖tryfootski	p@cx){%			
		842 843	\labelit %	t@cx{\tryfoots	kip@cx}\$(h_f)\$	5};		
		844	%					
		845	% marginpar					
		846 847	\def\leftmai		yINNER+\trvtex	ctwidth@cx+\tr	ymarginparsep@c	ж,
		848	\@1	tempdimb-∖tryh	eadsep@cx-\try	headheight@cx	) rectangle ++(	\trymarginparwidth@cx,-\tr
		849 850			<pre>NNER+\trytextw ,0.75\trytexth</pre>		arginparsep@cx	
		851		T '	idth@cx,0) noc	-		
		852			th@cx,0.7\base	·	0 av.   \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	المغاد
		853	{marginpa	arwlath} node	ac ++(0.5\tryN	larginparwidth(	@cx,-\baselines	ктр)
							\footskip	30 pt
	1							<b>→</b>
							\n	marginparsep 11pt
odds	sidemargi	n 28 pt		\t	extwidth $380\mathrm{pt}$			\marginparwidth 101pt
<b>-</b>		4						<b>→</b>
driver margin	1 in							

```
1 \text{ in} + \text{\topmargin} (17 pt) = 55.27 pt
                                                                 Page 28
                                                                                                  \headheight 12pt
                                                                                                     \headsep 25\,pt
                                    \label{lem:convertex} $$ {\operatorname{cx}} the \operatorname{cymargin} arwidth @cx} $(w_{m,w})$$;
                       854
                       855
                       856
                                 % Draw the marginsep dimension above
                       857
                                  \draw [dim,|-|] (\tryINNER+\trytextwidth@cx,0.85\trytextheight@cx)
                                            -- ++ (\trymarginparsep@cx,0)
                                           node[right,dim text,text width=2cm,text centered] at
                       860
                                           ++(-3ex,12pt) {marginparsep\\ \convert@cx{\trymarginparsep@cx} $(w_{m,s})$ };
                                 }
                       861
                       862
                                 \def\rightmarginpar{%
                       863
                                  \draw [textblock] (\tryINNER-\trymarginparsep@cx,
                       864
                                    \@tempdimb-\tryheadsep@cx-\tryheadheight@cx)
                       865
                       866
                                    rectangle ++(-\trymarginparwidth@cx,-\trytextheight@cx);
                       867
                                  \draw [dim,|<->|] (\tryINNER-\trymarginparsep@cx-\trymarginparwidth@cx,
                                      0.75\trytextheight@cx) -- ++ (\trymarginparwidth@cx,0) node at
                       868
                                      ++(-0.5\trymarginparwidth@cx,0.5\baselineskip) {marginparwidth.} node at
                       869
                                      ++(-0.5\marginparwidth,-\baselineskip){\convert@cx{\the\marginparwidth}};
                       870
                       871
                                 }
                       872
                                 %
                       873
                                 \drawmarginparstrue
                       874
                       875
                                 \ifdrawmarginpars
                       876
                                   \ifoddpage
                       877
                                     \leftmarginpar
                       878
                                                                                                                      \textheight
                                      \rightmarginpar
                                                                                                                          598 pt
                                 \fi
                       881
                             11.3.11 Page Construction Canon Diagonal Lines
                               I the conditional @trydiagonal is set to true draw the diagonal lines. At false
                             or none skip.
                                 \if@trydiagonal
                       882
                       883
                                   \ifoddpage
                       884
                                      \draw [color=blue!30](\trystockwidth@cx-\trytrimedge@cx,\bottomtrim)
                                         -- (\lefttrim, \trystockheight@cx-\trimtop@cx);
                       886
                                   \else
                                     \draw [color=blue!30] (\trytrimedge@cx,0)
                       887
                       888
                                     -- (\paperwidth,\paperheight-\trimtop@cx);
                                   \fi
                       889
                                 \fi
                       890
                                 \end{tikzpicture}
                       891
                       892
                                 }
                       893
                             12 Lists
                               List diagrams are developed using the techniques we have used so far for the
                            pages. We define layouts to visualize them.
                                                                                                    \footskip 30pt
                                                                                                           \marginparsep 11pt
          oddsidemargin 28\,\mathrm{pt}
                                                          \textwidth 380 pt
                                                                                                                   \mbox{\mbox{\it marginparwidth}}\ 101\,\mbox{\it pt}
driver margin 1 in
```



```
1 \text{ in} + \text{\topmargin} (17 pt) = 55.27 pt
                                                             Page 31
                                                                                            \headheight 12\,pt
                                                                                               \headsep 25\,\mathrm{pt}
                      963
                      964
                                 \draw[<->,>=latex] (A)++(0,1.5cm) -- ++(20pt,0) ;
                      965
                                 \draw (A)++(20pt,1.20cm )--++ (0pt,1.8cm-27pt) node at ++(0,0)[below right]
                                       {\labelit@cx{\listparindent}};
                                  \draw[<->,>=latex] (A) ++ (-0pt,8pt) -- ++(-5cm,0pt)
                      968
                                        node at ++(0,0)[above right] {\labelit@cx{\leftmargin}};
                      969
                                  \draw[<->,>=latex] (A) ++ (Opt+\textwidth,8pt) -- ++ (5cm,Opt)
                      970
                                       node at ++(0,0)[above left] { \labelit@cx{\rightmargin}};
                      971
                      972
                                  \node[dim] (A) at (##1,##2)[above right] {\textsc{Item Paragraph}};
                      973
                      974
                              }
                      975
                      976
                              % We start by drawing the blocks. We draw three blocks, the first and last show items, wherea
                      977
                      978
                               % the middle one shows a paragraph within an item.
                      979
                               % Since values for list parameters are small, we scale everything up.
                      980
                                     |\tempa@cx = scaled topsep + parskskip + partopsep|
                               %
                                     |\tempb@cx = scaled itemsep + parsep|
                      981
                      982
                               % \end{macrocode}
                      983
                              % \begin{macrocode}
                      984
                               \putlistblock@cx{5cm}{2cm+\tempa@cx} % 8cm
                      985
                               \draw [<-,>=latex] (0.5\paperwidth, 2cm)-
                      986
                                            -++(0,\tempa@cx) node at ++(0,-0.5\tempa@cx) [right]
                                           \labelit@cx{\topsep}+\labelit@cx{\parskip} +\labelit@cx{\partopsep}}, \\
                      988
                      989
                               % second block
                      990
                               \putlistparblock@cx{5cm}{2cm+\tempa@cx+3cm+\tempb@cx}
                      991
                               \draw-[->,>=latex]-(0.5\paperwidth,-2cm+\tempa@cx+3cm+\tempb@cx)--++(0,-\tempb@cx)
                      992
                      993
                                     node at ++(0,0.5\tempb@cx) [right]
                      994
                                     {\labelit@cx{\itemsep}+\labelit@cx{\parsep}=
                                         \pgfmathparse{\itemsep+\parsep}\convert@cx{\pgfmathresult}};
                      995
                      996
                               %% third block
                      997
                               \putlistblock@cx{5cm}{2cm+\tempa@cx+6cm+\tempb@cx +\tempc@cx}
                      998
                      999
                               \draw [->,>=latex] (0.5\paperwidth,2cm+\tempa@cx+6cm+\tempb@cx +\tempc@cx|)
                                     --++(0,-\tempc@cx)
                     1000
                                     node at ++(0,0.5\tempc@cx) [right] {\labelit@cx{\parsep}};
                     1001
                     1002
                               % add finally the top arrow
                     1003
                     1004
                               \draw [->,>\draw [->,>\draw] (0.5\listdiagramwidth, \listdiagramheight-2cm)--++(0,-\tempa@cx)
                                    node at ++(0,0.5\tempa@cx) [right]
                     1005
                               {\labelit@cx{\topsep}+\labelit@cx{\parskip}+\labelit@cx{\partopsep}=
                     1006
                                    \pgfmathparse{\topsep+\parskip+\partopsep}\convert@cx{\pgfmathresult}};
                     1007
                     1008
                     1009
                     1010
                               \end{tikzpicture}
                     1011
                               }
                                                                                             \footskip 30pt
                                                                                                    \marginparsep 11pt
          oddsidemargin 28 pt
                                                       \textwidth 380 pt
                                                                                                            \marginparwidth 101pt
driver margin 1 in
```

						1	
			$1 \text{ in} + \text{ \tc}$	opmargin $(1.42pc)$ =	= 4.61  p		
		Page 32		\headhei	ght 1p	C	
		-				1	
	12.1 Tabulating l	List values		\headsep	2.08 p	C \	
\printlistvalues	The command \printlist		table showing	the list naram-			
(p) 1111 (122 (134 (135))	eters and their values (see			aro not param			
		Parameter Valu	1e				
		leftmargin 1.83					
		rightmargin 1.83 jitemindent 0 j					
		labelwidth 1.42 j	ос				
		labelsep 0.42 p listparindent 0 p					
		topsep 0.31					
		partopsep 0.16	ос				
		parsep 0.16					
		itemsep 0.161	<u> </u>				
	Table 1 – Tabulation of I	LaTeX list values, for t	the quotation o	environment.			
1012	\def\printlistvalue	7c 18					
1013	\begin{tabular}{l						
1014	\toprule	V-1					theight 9.83 pc
1015 1016	Parameter & \midrule	Value\\				43	9.83 pc
1017	leftmargin &	\convert@cx{\the\lef	-				
1018 1019		<pre>\convert@cx{\the\rig \convert@cx{\itemino</pre>	-				
1019		\convert@cx{\labelwi					
1021	1	\convert@cx{\labelse					
1022 1023	·	<pre>\convert@cx{\listpar \convert@cx{\topsep}</pre>	-				
1024		\convert@cx{\partops					
1025		<pre>\convert@cx{\parsep} \convert@cx{\itemsep</pre>					
1026 1027	itemsep & \bottomrule	/convertigex) (Itemset	,				
1028 1029	\end{tabular} }						
	40 B						
	13 Draw a For	It DOX					
	We provide a command						
	TikZ for drafting and styli print font parameters. This	-					
	To draw a fontbox, we u		onown in rabie	and lubic J.			
				\footski	p 2.5p	C	
						<u> </u>	
				\	margin	parsep 0.	92 pc
oddsidemargin 2.33	ос	\textwidth 31.66pc				\margin <sub> </sub>	parwidth $8.42\mathrm{pc}$
					-	4	-
driver margin 1 in							

			$1 \text{ in} +        \text$	pmargin $(1.42  pc) = 4.6$	31 pc
		Page 33		\headheight	1 pc
				\headsep 2.0	18 pc
1	Pa	rameter Val	ue		1
	for	nt encoding T1 nt family fvo nt series m	e		
	for	nt shape n			
		nt size 10 selineskp 12.0			
	Table 2 – Font de	tails for the currer	nt document fo	nt.	
	 Parameter		Value		
		slant per point) is	0.0pt		
\topfraction		interword space)	2.86197pt		
.7		interword stretch) interword shrink)	1.71898pt 0.68399pt		
	fontdimen5 (	x-height)	4.67096pt		
	fontdimen6 (		8.99994pt		
	fontdimen7 (	extra space)	0.68399pt		
	Table 3 – Font dimensi width = x-height=1.39 pc depth=0.43 pc	4.48 pc		ent font.	\textheight 49.83 pc
	This draws Q werty .				
\printfontparams	\printfon	tnaramel(%			
1030 1031 1032 1033 1034	\begin{tabular}{lc} \toprule	√alue\\			
1035	Font encoding &				
1036 1037		\f@family\\ \f@series\\			
1038	font shape & `	\f@shape\\			
1039		\f@size\\			
1040 1041	<pre>baselineskp &amp; ` \bottomrule</pre>	\f@baselineskip\\			
1042	\end{tabular}				
1043	}				
\printfontdimensions					
1044 1045 1046	<pre>\newcommand{\printfon   \begin{tabular}{lc}   \toprule</pre>	tdimensions}{%			<u></u>
				\footskip 2.	5 pc
				\marg	pinparsep 0.92pc
oddsidemargin 2.33 pc		\textwidth 31.66pc			\marginparwidth 8.42pc
driver margin 1 in				<b>*</b>	

									T	1	
						$1 \text{ in} + \text{ \to}$	opmargin $(1.42pc)=$	: 4.61	l pc	4	
i											
[					+		(			-	
	لسنه	<u> </u>			Page 34		\headheigh	aht 1	l pc	4	
					5					<b>Y</b>	
							\headsep	2.08	3 pc	4	
		1047	Parameter	& Value\\						1	
i		1048	\midrule			( )					
		1049			point) is &						
i		1050		en2 (interword en3 (interword		\the\fontdimer	n2\font\\ ontdimen3\font\	۸ ۱			
		1051 1052		en4 (interword			ntdimen4\font\\		+		
i		1052			& \the\fontd		Culment (				
		1054		_	h)& \the\fontd						
i		1055			ace) & \the\fon	tdimen7\font\	<b>\</b>				
i		1056	\bottomrul								
		1057 1058	tabul }	ar}							
i		1000	j								
	wfontfr		The macro \drawf	, ,				-	+		
\dr	rawfont		mensions. A very			-					
			with TikZ it can be	drawn more ea	sily than the ten	s of lines of put i	in the original				
			macros.  We define some	e new length to	hold temporary	values for the f	onthox dimen-				
			sions, although PG			Values 101 2110	nitbox annon				
l		1059	\newlength\x	_							
i		1059	\newlength\x	-							
i		1061	\newlength\x		-		<del>                                     </del>	i	+	_	
i		1062	\newlength\x	ktotal@cx							
		1063		\fontbox}							
			We set a numbe	er of keys to ena	able styling the b	ox.				\te	extheight
1		1064	fontb	oox font/.stor	re in=\fontboxf	iont@cx,					49.83 pc
1		1065	fontb	oox line color	//.store in=\fo	ontboxlinecolor					
1		1066			t/.store in=\fo						
		1067	2 Sat reas	Lic dofaul	1.			1	+		
1		1068 1069	% Set reas	onable defaul	ts						
1		1009		oox font={\its	shape\Huge},						
1		1071	fontb	oox line color	=thered,						
1		1072	fontb	ox label font	={\upshape\foo	tnotesize}}					
			Define a macro	to draw a tight	frame around te	xt. This can be 1	ased for inline				
1			text and hence we	use \tikz to de	efine it. We align	n it using baseli					
1			See (How to align	7	7			i			
1					vector between t	.wo co-orainates	ľ.				
1		1073		(drawfontframe	-	1-halfantacy	L 50				
1		1074 1075			, font=\fontbo inner sep=0pt,		-				
1		1075		-	inecolor@cx] (						
1		1077	\draw[\f	fontboxlinecol	lor@cx, line wi	idth=0.4pt] (X.					
		1078	circle		red] (X.bas						
		1079	}			[ ]		i			
		1080 1081	% \def\drawfon	·+hav#15%							
1		1081 1082		itbox#1{% e\fontboxfont@	JCY						
		1083		<pre>[\fontbox\ditg\]</pre>							
<b>.</b>		1084			eight@cx}{\ht\f	ontbox}			$\perp$	¥_	
1							\footskip	- 2.	~ nc	1	
<u> </u>							(10003112)	) 2.0	þe	1	
								-	+		
i							\m	argi	Lnpa	arsep 0	).92 pc
oddsid	demargin	ı 2.33 p	С	\te	extwidth 31.66pc				7	\margi	nparwidth 8.42pc
-	<b>*</b>	-						<b></b>	4		-
driver margin	1 in										
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	I I								1	
						4		4.01		
						$1 \text{ in} +        \text$	$ppmargin\left(1.42pc ight)$ =	= 4.61  pc		
	+				Page 35		\headheig	ght 1pc	¥	
									1	
							\headsep	2.08 pc	¥	
		1085		-	dth@cx}{\wd\fo				1	
		1086		-	pth@cx}{\dp\fo		Onvi			
		1087 1088		-	tal@cx}{\xdept le=1 lahel/ st	_	@cx} ontboxlabelfon	t@cx}}	1	
		1089	-		inner sep=0pt,	-		reeck) j	1	
		1090		-			cle(1pt)[fill=	red] -	- (X.bas	se east);
		1091			([yshift=5pt]					
		1092	1	·		de [label,abo	ve=-5pt,midway	]{widt	h = \cor	vert@cx{\xwid
				he x-height of th	ie text					
		1093		the xheight						
		1094	·	•	abel]([xshift=		est)			
		1095 1096			] X.north west av.labell {x-h		t@cx{\xheight@	CX}}.		
		1096	% draw dep		a,, cabet 1 (A-1	icignic (conver	EGGY [ (Allergint)	~^J J ,		
		1098	1		l]([xshift=-5p	t]X.base west	)			
		1099			] X.south west		<u>.</u> .			
		1100					x{\xdepth@cx}}	;		
		1101		-,>=latex]([xs -++(0,-8pt);	hift=-5pt]X.sc	uth west)				
		1102 1103		tal height						
		1104	%	g						
		1105			]([xshift=5pt]					
		1106			X.south east)					
		1107	no	ode [right,mid	way] {height=\	convert@cx{\x	total@cx}};			
		1108 1109	tikzp	nicture}}						height
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		1	4 Minim	al Worki	ng Examր	oles (MW	E)				
			We generate a	number of evan	nples to illustrat	e usage and to	test the code				
		T	he first example								
		be	er of pictures to i	llustrate float p	arameter placen	nent.					
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		1132 1133	 \usepgflibra		ge,fancyhdr,am	ısmath,booktab	s}				
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		1167 1168	<pre>\includegraphics[width=\columnw \iftopfloat{\figureparamstop}</pre>	_	}%	
		1169	\end{figure}	G		
		1170	\begin{figure}[tpb]			
		1171 1172	<pre>\centering \includegraphics[height=\column</pre>	widthl{./images/hine04	4-x}	
		1173	Example image to demon	_	,	
		1174	\end{figure}			
		1175 1176	\begin{figure}[tpb]			
		1176	\centering			
		1178	\includegraphics[width=\columnw	_	-xx}	
		1179 1180	<pre>\caption{Example image to demon \end{figure}</pre>	strate top fraction.}		
		1181	\lipsum			
		1182	\clearpage			
		1183	\onecolumn			
		1184 1185	% draws the spread			
		1186	\drawcanons			
		1187	\			
		1188 1189	<pre>\printreadability \pagestyle{plain}</pre>			
		1190	\newpage			
		1191	% draws a trial layout			\textheight 49.83 pc
		1192	\drawtriallayout \newpage			49.63 pc
		1193 1194	\drawtriallayout			
		1195	\newpage			
		1196 1197	\drawlistdiagram \printlistvalues			
		1197	\end{document}			
			<*test-02>			
		1199	%%			
		1200	%% File: test-02.tex			
		1201	%% Tests xlayout for scrbook cl	ass.		
		1202 1203	% 26/05/2012 %			
		1204	%%			
		1205	\documentclass[twoside,10pt]{sc			
		1206 1207	<pre>\usepackage{tikz,changepage,fan \usepgflibrary{arrows}</pre>	cynar,amsmatn}		
		1208	\usepackage{lipsum}			
		1209	\uspackage[german]{babel}			
		1210 1211	<pre>\usepackage[german]{xlayouts} \renewcommand{\topfraction}{.6}</pre>			
		1211	\renewcommand{\toprraction;{.0} \renewcommand{\bottomfraction}{			
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		1232	\end{figure}							
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		1243 1244	<pre>figure] \begin{figure</pre>							
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		1253			demonstrate t	-	,			
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		1255 1256	\lipsum \clearpage							
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		1267	\end{document}			
		1269	%			
		<	/test-02>			
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		1	4.1 List standalone diagram MWI	E		
			<*test-03>			
		1270	%% This file is generated automatically H	oy xlayouts.d	tx.	
		1271	%% It produces a standalone diagram for	lists.		
		1272	88			
		1273	\documentclass{standalone}			
		1274	\usepackage[italian]{babel}			
		1275	\usepackage[italian]{xlayouts}			
		1276	\begin{document}			
		1277	\drawlistdiagram			
		1278	\end{document}			
		<	/test-03>			
			<*test-04>			
		1279	%% This file is generated automatically H	oy xlayouts.d	tx.	
		1280	%% It produces a standalone diagram for			
		1281	%%			
		1282	\documentclass{standalone}			
		1283	\usepackage[italian]{babel}			\ toythaisht
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		1285	\begin{document}			49.83 pc
		1286	\drawcanons			
		1287	\end{document}			
		<	/test-04> <*test-05>			
		1288	%% This file is generated automatically H	oy xlayouts.d	tx.	
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		1291	\documentclass[twoside]{book}			
		1292	\usepackage[left=80pt,right=80pt,top=0.75	5in]{geometry	·}	
		1293	<pre>\usepackage[final]{graphicx}</pre>			
		1294	\usepackage{lipsum}			
		1295	\usepackage{xlayouts}			
		1296	\makeatletter			
		1297	\providecommand{\cleartoevenpage}[1][\@er	mpty]{%		
		1298	\clearpage%			
		1299	\ifodd\c@page\null#1\clearpage\fi}			
		1300	\makeatother			
		1301	\pagestyle{grid}			
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		1303	\mainmatter			
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1321	\end{document}	
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	o the conventions of the translator package.	
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