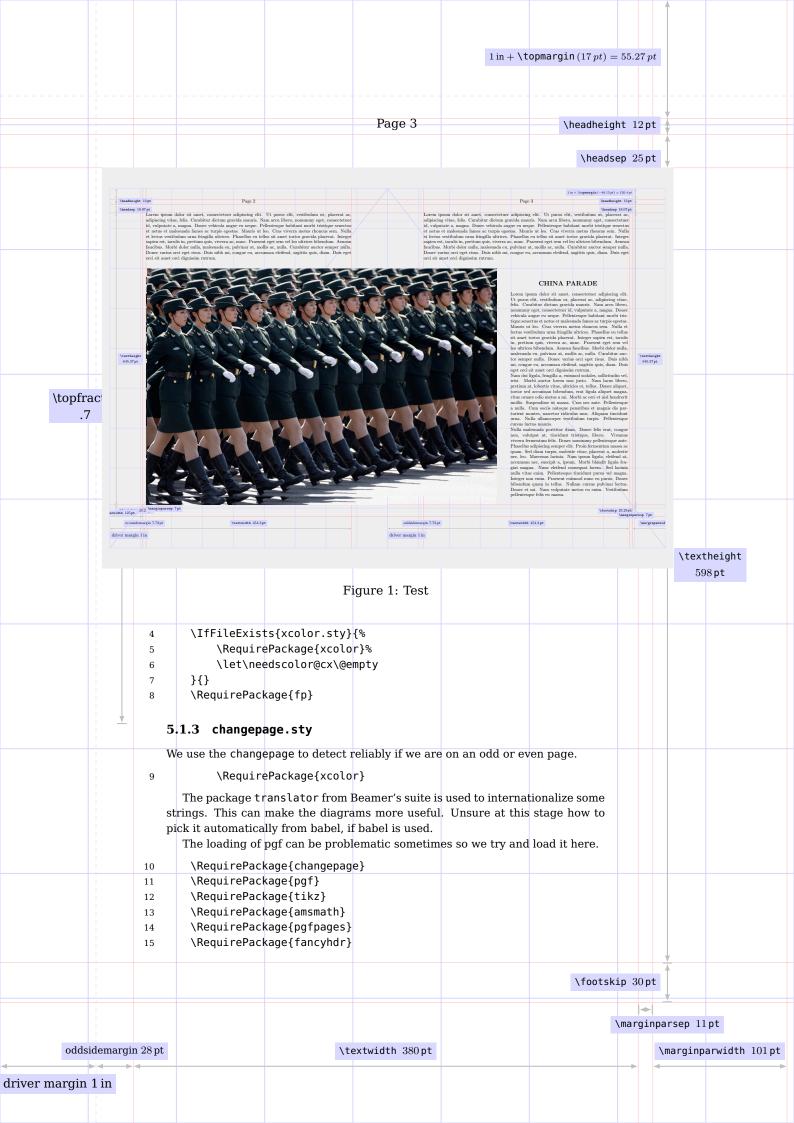
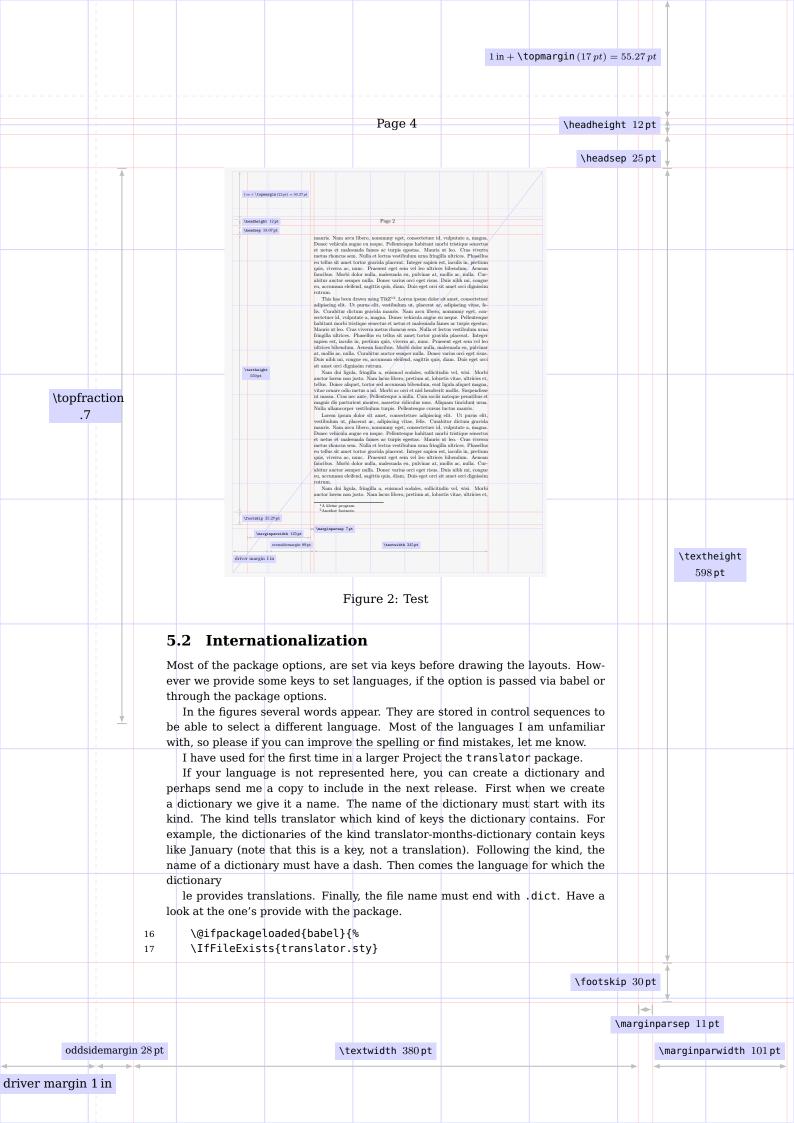
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				Dr. Yi	annis	Lazario	des			
						gmail.				
				2	012/	05/26				
				2	012,	03/20				
	1				Abst	ract				
		bı aç ha lis	Current layout asily permit, the at does not indicage arose when I as a number of ust of styling options of the covides macros f	ate clearly what was developing tilities, one of w ions is provided	s. The each differ hich is via a	package g line repre rent page shown in	eometry darws sents. The need layouts for chap this publication	a page layout, for this pack- oter heads. It . An extensive		
		_	Contents	·						\textheight
		1	How to use th	e package	2	7 Float	parameters	14		598 pt
		2	Introduction		2	8 Sprea	d	14		
		3	Producing pa	ges two-up	2	9 Try La	ayouts	16		
		4	Page Layouts		2	10 Read	ability	17		
		5	Implementati	on	2	11 Page	Layout Diagra	ms 18		
			5.1 Dependen	cies	. 2	11.1N	ew lengths	18		
				nalization hs and switches			llowances for tri rawing the Trial			
			5.4 Colors		. 5		y 0110 111d1	_		
				margins		12 Lists 12.1 To	abulating List va	29 alues 32		
			5.7 Crop mark	S	. 9		a Font box	32		
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			5.14 Marginpar	dimensions .	. 12					
				out diagonal line	es 13	15 Dictio		40		
		6	Running head	l definitions	13	16 Refer	ences	43		
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	1 How to	use the p	oackage				
	The package is use ble:	ed like any othe	r LaTeX package	, by including it	in the pream-		
	x		s be loaded using	the \cxset mag	ero.		
٩		t{geometry uni		MIG (CASCE	ло.		
	~ · · - J-	-•					
	2 Introdu						
	This package is a r lows the tradition	originally imple	mented in the la	yout.sty of Ken	nt McPherson.		
I	It defines the compage. The packag	mand xlayout	that draws the p	age geometry o	n the current		
· c	diverges from trac	dition, in that it	t shows the dime	ension lines and	value labels,		
	making understand classes.						
	strip utility which		ording to the contournatic extraction				
İ	files [GMS94].						
	3 Produci	ing pages	s two-up				
	Sometimes it is in		_	ment in a two pa	aαe view. This		\textheight
i	is probably easy was them on paper. We	vith a viewer su	ch as Acrobat Re	eader, but not so	easy to print		598 pt
	liem on paper	Oliti a racini,	lu uu miis iii	IIIdui us mad	Jw:		
4	4 Page La	ayouts					
1	There are a numbe	er of ways you c	an include a pag	e layout in your	document.		
	- Implem	contation					
	_	entation		· · · · · · · · · · · ·	= . 1		
t	The implementation the layout. We try	to avoid clashe	-	-			
f	for all internal ma	cros.					
[5.1 Depend	encies					
	5.1.1 latex.lt						
	5.1.2 xcolor.s	-	_				
r	xlayouts's colour nal macros are us	ed directly: \@d			_		
\	\set@page@color	-					
1 2	\global\let\	tikz@ensure@d	 ollar@catcode=	\relax %supres	ss error with	verbati	im
3					\footsk:	-n 20 nt	<u>†</u>
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		19 20	}% {\RequirePac	ckage[french,d	utch.italian,	english]{babel}	}		
		21	\IfFileExist	ts{translator.	.sty}	_			
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		23	i stion						
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		29 30	\ProcessOpti		etect@tanguage	e{french}\usela	anguage{ i rencr	1}}	
			() Cooccopi						
		5	5.3 New ler	ngths and s	witches				
		V	We need a few ne	ew lengths for a	rranging the gri	d and the layou	t. PH = paper		
			neight PW = paper	-					
		31	\newlength\s						
		32	\newlength\s	-					
		33 34	\newlength\1						
		35	\newlength\i						
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		38 39	\newlength\F	PW PW{∖paperwidth	11				598 pt
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		41	\newlength\1						
		42	\newlength\a	alphlength					
		F	5.4 Colors						
			One of the reason			7	_		
			ayouts to be inclu colors to make it e				e a number of		
		43		, and the second	b}{0.02,0.04,0				
		44			b}{0.65,0.04,0				
		45	\definecolor	r{thegreen}{rg	b}{0.06,0.44,0	9.08}			
		46			en}{rgb}{0.06,0).44,0.06}			
		47 48		r{thegrey} {gr r{thegray} {gr					
		49		r{thedarkgray}					
		50		r{theshade}{gr					
		51		r{theframe}{gr					
		52 53		r{tnecream}{rg r{spot}{rgb}{0	jb}{1,0.95,0.4}),0.2,0.6}				
		54	\definecolor	r{boxframe}{gr	ay}{0.8}				
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		58 59			{rgb}{0.963,0.	-				
		60		:{Hyperlink}{r ehyperlink}{t	gb}{0.281,0.27	5,0.485}				
		61 62			r}{blac	:k}}				
		63		{\spotcolor}{						
		f	The @diagonal or classical layout		o let the user cho		diagonal lines			
		64	\newif\if@di		it illitially at lais	o.				
		65	\@diagonalfa	-						
		66 67								
		68	\newif\ifdra							
		69 70	\drawmarginp	arstrue						
		71								
\print	unitsof		This macro has be		n the layouts p	ackage, it sets t	he units to be			
		_	orinted in the diag		Ca					
		72 73		\printinunits itperpt{1.0}\	of@cx}[1]{% def\l@yunits{p)t}%				
		74	\def\l@yta	{#1}\def\l@yt		•				
		75 76	\ifx \l@yt \def\l@v		}\def\l@yunits	{nt}%				
		77	\else		, (ao. (agy an 1 a	(6-1)				theight
		78 79	\def\l@y \ifx \la	rtb{pc}% Byta\l@ytb					5	98 pt
		80	\def\l		.083333}\def\l	@yunits{pc}%				
		81 82	\else \def\l	@ytb{in}%						
		83	\ifx \	l@yta\l@ytb						
		84 85	\def \else	\l@yunitperpt	{0.013837}\def	\l@yunits{in}	26			
		86		\l@ytb{mm}%						
		87		\l@yta\l@ytb lef\l@vunitner	pt{0.351459}\d	lef\l@vuni+c/m	m1%			
		88 89	\els	e		ici (twyuii±t5{iii				
		90		lef\l@ytb{cm}% .fx \l@yta\l@y						
		91 92			to erpt{0.0351459	}\def\l@yunit	s{cm}%			
		93		lse	10					
		94 95		\def\l@ytb{bp \ifx \l@yta\l						
		96		\def\l@yuni	tperpt{0.99626	4}\def\l@yuni	ts{bp}%			
	1	97 98		<pre>\else \def\l@ytb{</pre>	dd}%					
		99		\ifx \l@yta	∖l@ytb	57101\ da£\ 10	ייטיִ + כ (קקני) פ			
		100 101		\def\l@yu \else	nitperpt{0.934	.o110}/ae⊥/f@A	uIIILS{UQ}%			
		102		\def\l@yt \ifx \l@y						
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						\headse	ep 25pt	
	104		\def\l@	@yunitperpt{0.0	0778809}\def\l		1	
	105	%	\else		-			
	106 107	%		l@ytb{PT}% \l@yta\l@ytb				
	108	%	\def		{1.0}\def\l@yu	nits{PT}% give	s problems	s with pgfmathpars
	109	%	\fi \fi					
	110 111		\T1 \fi					
	112		\fi					
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	114	\fi \fi						
	116	\fi						
	117	\fi						
	118	}						
\c	convert@cx	The macro \conveunits to another. U			ert dimensions fr	rom one set of		
	119		\convert@cx[1]					
	120	\pgfmathp	parse{#1*\l@yu	unitperpt}				
	121			ng to 2 decimal				
	122 123	\pgfmathp })rintnumber (\p	pgfmathresult}\	thinspace \ tey	units		
\ ca]			- ition the	'1 eto it no	· · · · · · · · · · · · · · · · · · ·	't' tha		
\(a)	CSh1†T@CX	Helper command t grid properly.	to reposition the	grid, note it nee	eds to run twice i	to position the		\textheight
	124		\calcshift@cx{	{%				598 pt
	125	\pgfsys@g	getposition{\p	pgfpictureid}\@	1			
	126			torigin\@basepo	oint}%			
	127 128	-	th\shiftx@cx\p th\shifty@cx\p					
				9.073				
	\CS	\ nowcommand	\CS[1]{\footno	-+-cizo #1\				
	129							
\l	labelit@cx	The macro \label this is expected to				on dimensions		
1	130	_	_]{\ttfamily		onvert@cx{#1}}		
					. (301 25	0114020		
			wn family of key					
		The macro \cxset		er define a new k	ey or set an exis	sting one.		
	131	\@ifundefine		f house (/nhdl				
	132 133		and\pgf e this is pgf					
		5.5 Keys						
		We are now ready	to start defining	g keys. We use P	GF Keys to defir	ne the keys.		
	134			ode=\printinuni				
	135 136	-		color/.store in color/.store i				
	100	3	Joinett j 12		III (900	\footski	ip 30pt	
							+	
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oddsic	demargin 28 pt	ıt.	\t	textwidth $380\mathrm{pt}$			\mar	rginparwidth $101\mathrm{pt}$
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							\headse	ep 25 pt	t ↓	
		137	-		color/.store i		belcolor@cx,		1	
		138	-		nal/.is choice, nal/true/.code=					
		139 140			nal/true/.code= nal/false/.code					
		141	geo	ometry diagon	nal/none/.code=	=\@diagonalfals	se,			
		142	- 1		nal color/.stor	_				
		143 144	-		rrow type/.stor ksteps/.store i					
		145	geo	eometry grid y	/steps/.store i	in=\ysteps@cx,				
		146	geo	eometry grid l	line width/.sto	ore in=\geomet	rygridlinewidt			
		147 148			r lines/.store r lines color/.				racy	
		148	}	Jilletty Grave.	tines coco.,	21016 TII- 18-2	IIICLI yur i vor ci	63666) i @c^,	
			Ve set some defaul		he keys and prev	vent errors, if th	e user doesn't			
			pecify any parame	eters.						
		150		etry diagonal=		1				
		151 152		eometry diagon eometry lines	nal color=blue! color=nink	20,				
		152 153			color=pink, color=blue!15,					
		154	geo	eometry grid c	color=blue!15,					
		155			line width=0.8p					
		156 157		cometry dim ar cometry units=	rrow type=latex =pt,	!				
		157		cometry units— cometry grid x						
		159	geo	ometry grid y	/steps=9,				\textheig	ht
		160			lines=dashed,				598 pt	
		161		-	r lines color=b	-				
	\ag	grid Tl	he macro \agrid	is the main dra	wing command.	It draws the lay	out.			
		162								
		163 164	\newcommand\a	-	olor=\geometryl	linescolor@cx}				
		164 165			lor=\geometryl lor=black!25,th			} .		
		166	dir	m label/.styl	le={color=black	k,fill=\geomet	rylabelcolor@c			
		167	gr	-	ine width=\geom					
		168 169	dr		color=\geometr {\geometrydrive		},			
		170	-			erlines@cx, erlinescolor@c>	x}}			
		171								
		172			nber picture, o	-				
			Ve need to detect i	-						
			checkoddpage from tre treated as odd			r onesiae aocum	ients aii payes			
		173			PH-1in-\voffse	≏t-\topmargin-	\headheight-\h	eadser	1]	
	1	174	\checkoddpage	je%		t (cop 5	(IICuui		7)	
		175	% for oneside	le we treat th						
		176 177	\if@twoside\@ \ifoddpage	else\oddpaget	rue\fi					
		177		: rmargin∖oddsid	demargin					
		179		-	\INNER}{1in+\in	nermargin+\ho	ffset}			
							\footski	in 30 pt		
							(1-1-1-	+	<u> </u>	
								margin	parsep 11pt	
oddsi	idemargii	n 28 pt		\t/	extwidth $380\mathrm{pt}$				\marginparwi	dth 101 pt
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						$1 \text{ in} + \text$	$topmargin\left(17pt ight) = 55$.27 pt	
				L'	ļ			_	
		<u> </u>			Page 9		\ headheight	10 pt	
					raye J		\headheight	12 pt	
			\da&		77 525 14444	: 220	\headsep	25 pt	
		180 181	\gdef\ \else	innermarginna	ame{oddside	margin}}%			
		182 183	\inne	ermargin\evens	-	innermargin+\ho	offcotl		
	 	184	\gdef	-	<pre>{\INNER}{IIN+\I name{evensi</pre>	-	0115613		
		185	\fi We need to shift th	Lo whole lavout	in order to achie	on integral n	mbon of aride		
		1	this is done with c	calcshift@cx ¹ .	n order to dome	ve an mægrar na	imper or dires		
		186 187	1	pe}[xshift=-\s		ift=-\shifty@c>			
	 	1	We will first draw this using the gricoordinates. This	id shape. All \dr	raw commands a	are detailed, rath	her than using		
			easier the steps in						
		188 189	% \draw [gri	id_xstep=\PW/	/\xstens@cx,ys	tep=\PH/\ysteps	יבשרא]		
		190	\ \tag{\tau}			grid ++(\PW,\Ph			
			5.6 The driv	ver margin	ıS				
			Printer's cannot al inch margin for the		_		allowed a one		
	\ boff		_		_		il officet and		
		fset '	Adjustment to the \voffset. All maj the crop may use	ajor classes set t	these offsets at z	zero. Some pack	kages such as	\texth	
		191 192		ver] (1in,0) - ver] (0,\PH-1i	(1in,\PH); in) ++(\PW,0));			
			5.7 Crop ma	arks					
			If the option crop the four corners of	is set, the packa	age will print crc	op marks. These	are printed at		
		193 194	% (0+8mm,\	_	30mm) circle(2.	.5mm)++(-2.5mm,	1,0)		
		195 196	% ++	-(20mm,0)++(-1	17.5mm,-2.5mm)-	-++(0,5mm);			
		197	%\draw [line	e width=0.4pt,		··/0 20mm)			
		198 199			-30mm+2.5mm) le(2.5mm) ++(-2	++(0,20mm) 2.5mm,0mm)++((5mm,0);		
		200 201							
			5.8 Vertical	l lines					
		1	For no particular co-ordinates to rec	reason we first		al lines. We also	o define some		
		202) (\INNER,\P	PH);			
			e discussion at tex.sx					1	
							\footskip	30 pt	
							\ma	arginparsep 11p	n+
oddsi	idemargir	n 28 pt		\t	textwidth 380 pt		(rwidth 101pt
4	-	4			EXCWIDEN 500 P.			\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	- WIGGI TOTAL
driver margin	1 in								

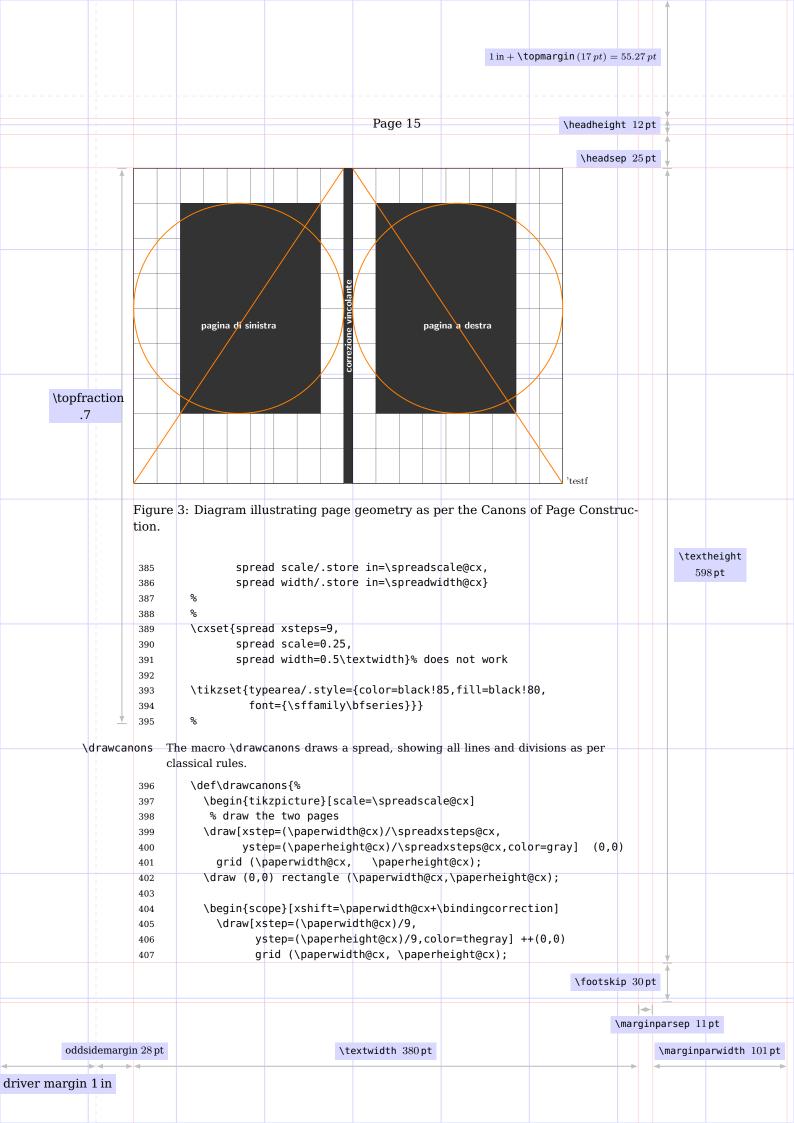
```
1 \text{ in} + \text{\topmargin} (17 pt) = 55.27 pt
                                                             Page 10
                                                                                             \headheight 12pt
                                                                                                \headsep 25\,\mathrm{pt}
                                \draw [lines] (\INNER+\textwidth,0) -- ++(0,\PH);
                      203
                      204
                                \ifoddpage
                      205
                                  \draw[lines] (\INNER+\textwidth+\marginparsep,0)
                      206
                                     -- (\INNER+\marginparsep+\textwidth,\PH);
                      207
                                  \draw[lines] (\INNER+\textwidth+\marginparsep+\marginparwidth,0)
                      208
                                      -- (\INNER+\marginparsep+\marginparwidth+\textwidth,\PH);
                      209
                                  \draw [lines] (\INNER-\marginparsep,0) -- ++(0,\PH);
                      210
                                  \draw [lines] (\INNER-\marginparsep-\marginparwidth,0) -- ++(0,\PH);
                      211
                      212
                           5.9 Horizontal lines
                           Next we draw the horizontal lines.
                                \draw [lines](0,\PH-lin-\topmargin)-- ++(\PW,0);
                      213
                                \draw [lines](0,\PH-lin-\topmargin-\headheight)-- ++(\PW,0)
                      214
                      215
                                     node[black,above] at ++(-0.5\PW,0){Page \thepage};
                                \draw[lines](0,\TOP) -- ++(\PW,0);
                      216
                                \draw [lines](0,\TOP-\textheight) -- ++(\PW,0);
                      217
                                \draw [lines](0,\TOP-\textheight-\footskip) -- ++(\PW,0);
                      218
                           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
                                                                                                                \textheight
                           two column layouts. We detect if it is a twocolumn layout using the switch
                                                                                                                   598 pt
                           \if@twocolumn defined by the standard classes in source2e.
            \columnwidth
              \columnsep
                                \if@twocolumn
                                  \draw [lines](\INNER+\columnwidth,\TOP)-- ++(0,-\textheight);
                      220
                      221
                                  \draw [lines](1in+\innermargin+\columnwidth+\columnsep,\TOP)
                                         -- ++(0,-\textheight);
                               % Draw twocolumn dimension lines
                                  \draw [dim,<->](\INNER, \TOP-\textheight-1.8em)
                      224
                                    -- ++(\columnwidth,0) node[above, dim label]
                      225
                                    at ++(-0.5\columnwidth,3pt) {\labelit@cx{\columnwidth}};
                      226
                                  \draw [dim,<->](\INNER+\columnwidth, \TOP-\textheight-1.8em)
                      227
                                    -- ++(\columnsep,0) node[above, dim label] at
                      228
                      229
                                    ++(-0.5\columnsep,3pt) {\labelit@cx{\columnsep}};
                      230
                                  \draw [dim,<->](\INNER+\columnwidth+\columnsep,
                                    \PH-lin-\topmargin-\headheight-\headsep-\textheight-1.8em)
                      231
                                    -- ++(\columnwidth,0) node[above, dim label] at
                                    ++(-0.5\columnwidth,3pt) {\labelit@cx{\columnwidth}};
                      233
                      234
                           We then position and draw the dimension lines and labels.
                               \ifoddpage
                      235
                                  \pgfmathsetlength\tol{lin+\innermargin+\textwidth+2\marginparsep}
                      236
                      237
                                  \draw [dim, <->](\tol,\PH)-- ++(0,-1in-\topmargin);
                               \else
                      238
                                  \pgfmathsetlength\tol{2\marginparsep}
                      239
                                                                                               \footskip 30pt
                                                                                                      \marginparsep 11pt
          oddsidemargin 28 pt
                                                       \textwidth 380 pt
                                                                                                             \mbox{\mbox{\it marginparwidth}}\ 101\,\mbox{\it pt}
driver margin 1 in
```

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1 \text{ in} + \text{\topmargin} (17 pt) = 55.27 pt
                                                              Page 11
                                                                                              \headheight 12pt
                                                                                                 \headsep 25pt
                                   \draw [dim, <->](\tol,\PH)-- ++(0,-1in-\topmargin);
                      240
                      241
                               \fi
                              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}
                      242
                               \ifoddpage
                      244
                                 \draw [dim](\tol,\PH-lin-\topmargin)-- ++(0,-\headheight)
                                    node[left, dim label] at
                                     ++(-lex,0.5in+0.5\topmargin+1.5em)
                      246
                                    {\scriptsize$1\thinspace \text{in}+\texttt{\footnotesize\textbackslash topmargin}\,
                      247
                                    (\convert@cx{\topmargin})= \convert@cx{\@tempdima}$};
                      248
                               \else
                      249
                                 \draw [dim, <->](\tol,\PH-lin-\topmargin)-- ++(0,-\headheight)
                      250
                      251
                                   node[right, dim label] at ++(1ex,1in-0.5\topmargin)
                                    {\scriptsize$1\thinspace \text{in}+\texttt{\footnotesize\textbackslash topmargin}
                      252
                                    \, (\convert@cx{\topmargin})= \convert@cx{\@tempdima}$};
                      253
                               \fi
                      254
                           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.
                                                                                                                 \textheight
                      255
                                                                                                                    598 pt
                                 \draw [dim,<->](\tol,\PH-lin-\topmargin)-- ++(0,-\headheight)
                      256
                                     node[above left, dim label] at ++(-1ex,0){ \labelit@cx{\headheight}};
                      257
                      258
                                      draw headsen
                                  \draw [dim,<->](\tol,\PH-1in-\topmarqin-\headheight)-- ++(0,-\headsep)
                      259
                                     node[above left,dim label] at ++(-lex,0){\labelit@cx{\headsep}};
                      260
                      261
                                  \draw [dim,<->](\tol,\PH-lin-\topmargin)-- ++(0,-\headheight)
                      262
                                     node[above right,dim label] at ++(lex,0){ \labelit@cx{\headheight}};
                      263
                      264
                               % draw headsep
                      265
                                  \draw [dim,<->](\tol,\PH-lin-\topmargin-\headheight)-- ++(0,-\headsep)
                                     node[above right, dim label] at ++(1ex,0){\labelit@cx{\headsep}};
                               \fi
                           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)
                      268
                                   -- ++(0,-\textheight) node[right,text width=1.7cm,text centered, dim label]
                      269
                                  at ++(lex,0.5\textheight){\labelit@cx{\textheight}};
                           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.
                                                                                                \footskip 30pt
                                                                                                       \marginparsep 11pt
                                                                                                              \mbox{\mbox{\it marginparwidth}}\ 101\,\mbox{\it pt}
          oddsidemargin 28 pt
                                                        \textwidth 380 pt
driver margin 1 in
```

```
1 \text{ in} + \text{\topmargin} (17 pt) = 55.27 pt
                                                              Page 12
                                                                                              \headheight 12pt
                                                                                                 \headsep 25pt
                               \ifoddpage
                      271
                      272
                                 \draw [dim, |<->|](\tol,\TOP-\textheight)
                      273
                                     -- ++(0,-\footskip)
                      274
                                     node[left, dim label] at ++(-lex,0.5\footskip){\labelit@cx{\footskip}}};
                      275
                               \else
                      276
                                  \draw [dim, |<->|](\tol,\TOP-\textheight)
                                    -- ++(0,-\footskip)
                      278
                                    node[right, dim label] at ++(lex,0.5\footskip){\labelit@cx{\footskip}};
                               \fi
                      279
                      280
                               % Float parameters
                      281
                               % topfraction on left margin
                      282
                      283
                      284
                               \iftopfloat{%
                               \draw [dim, <->|] (\INNER-0.3cm, \TOP) - ++(0,-\topfraction\textheight)
                      285
                                       node[left,text width=1.7cm,text centered, dim label]
                      286
                      287
                                       at ++ (0,0.4\textheight) {\textbackslash topfraction\\ \topfraction};
                      288
                               }{}
                               % bottom fraction
                      289
                               \ifbotfloat{%
                      290
                               \draw[dim, <->|] (\INNER, \TOP) ++(0, -\textheight)
                      291
                      292
                                  -- ++(0,\bottomfraction\textheight)
                      293
                                 node[left, text width=1.2cm, dim label] at
                      294
                                 ++(-lex,-\bottomfraction*0.5\textheight){\textbackslash bottom\\fraction\\
                                  \bottomfraction};
                                                                                                                 \textheight
                      296
                               }{}
                                                                                                                    598\,\mathrm{pt}
                               % HORIZONTAL DIMENSIONS
                               \setlength\toly{1.5cm}
                      298
                               \draw[dim, <->](0, \toly)--++(1in, 0) node [dim label] at ++(-0.4in, -1.5em)
                      299
                               {\translate{drivermarginname} 1\thinspace in};
                      300
                      301
                              If innermargin 0pt we do not show the dimension line. Tufte-book has inner-
                           margin=0pt
                               \ifdim\innermargin=0pt
                      302
                                   \det[\dim,](0+1\inf, \det)-++(\liminf g,0) node [above, dim label]
                      303
                                        at ++(-0.5\innermargin, 0.5em)
                      304
                                        {\innermarginname\convert@cx{\innermargin}};
                               \else
                      306
                                   \draw[dim,<->](0+1in,\toly)--++(\innermargin,0) node [above, dim label]
                      307
                                        at ++(-0.5\innermargin, 0.5em)
                      308
                                        {\innermarginname\ \convert@cx{\innermargin}};
                      309
                               \fi
                      310
                      311
                      312
                               \draw[dim,<->](0+1in+\innermargin,\toly)--++(\textwidth,0)
                      313
                                 node[above, dim label] at ++(-0.5\textwidth,0.5em)
                                  {\labelit@cx{\textwidth}};
                      314
                           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
                                                                                                \footskip 30pt
                                                                                                       \marginparsep 11pt
          oddsidemargin 28 pt
                                                        \textwidth 380 pt
                                                                                                              \mbox{\mbox{\it marginparwidth}}\ 101\,\mbox{\it pt}
driver margin 1 in
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	1		marginpars and they left the dim	T T	T I	for some pa-		1	
		p	pers they will overflow outside the	e paper boundari	es.				
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		316 317	\draw[dim, <->](\INNER node [below, dim lab				ep,⊍)		
		317	{\labelit@cx{\margin		gilipai sep,	eiii j			
		319	\draw[dim,<->](\INNER+\t	textwidth+\marg	inparsep, \tol	.y)			
		320	++(\marginparwidth		innanuidt	'			
		321 322	<pre>node [above, dim lab {\labelit@cx{\margin</pre>		\marginparwide	h,0.5em)			
		323	\else	ipai wia cii, , ,					
		324	\draw[dim, <->](\INN		I T				
		325	node [right, dim l		arginparsep,0e	:m)		-	
		326 327	<pre>{\labelit@cx{\marg \ifdim\marginparwidth<3cm</pre>		re intelligent	for nlaceme	nt		
		327	\draw[dim, <->](0+1in						
		329	\toly+.95cm)++(\marg						
		330	at ++(0,0em)	. 45633.					
		331 332	<pre>{\labelit@cx{\marginpa \else</pre>	arwidtn};					
		332	\draw[dim, <->](\INNE	ER-\marginparse	p-\marginparwi	dth, \toly+.	95cm)		
		334	++(\marginparwidth,0	0)node [above,	dim label] at	-			
		335	++(-0.5\marginparwidth	n,0em){\labelit	.@cx{\marginpar	<pre>width}};</pre>			
i		336 337	\fi \fi					\ \	
i		33,	/11						height 8pt
i		5	5.15 Classic layout dia	agonal lines	<u> </u>				pc
i			We do not attempt to draw out a	_		- neih adtau-			
	-		We do not attempt to draw out a formula lines to check. This feature	-		_	+++	-	
i			depends if we have an odd or ever						
i		338	\if@diagonal						
		339	\ifoddpage		500				
		340	\draw [\diagonalcolor	r@cx,thick] (\r	W,0)(0,\PH);				
		341 342	\else \draw [\diagonalcolo	or@cx.thick] (6	1.0)(\PW,\PH)	1:			
1		343	\fi	,,,	10)	•			
1		344	\fi						
		345 346	<pre>\end{scope} \end{tikzpicture}}</pre>						
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		6	6 Running head d	.emitions					
		v	We define a page layout, grid to	position the gri	d. We use the s	ame for both			
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i	\ps@gı	rid I	n LaTeX a running header is def	fined using a \p	e@ <name> macro.</name>	We define a			
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		347	\def\ps@grid{%						
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			some of the intern	_	t routine.					
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		373	tikzp	oicture}%						
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			of page constructi	on.						
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			1 in + V	$\texttt{\topmargin}(17pt) = 55.27pt$	
			Page 21	\headheight 12pt	Ž.
				\headsep 25pt	Ţ
	600	}			1
	601	\ avaat (try toytwidth=\text	المهادات		
	602 603	<pre>\cxset{try textwidth=\textv try trimedge=10pt}</pre>	:Wlath,		
\@t;	rydiagonal	The switch \@trydiagonal is used i	in kove to draw or skip the Pac	go Construction	
16.2	yuragona	Canon, diagonal line.	Ill keys to draw or only one 1	ge Construction	
	604	\newif\if@trydiagonal			
	605	\@trydiagonalfalse			
	606	ttm. diagonal/ is ch			
l	607 608	<pre>try diagonal/.is che try diagonal/true/.</pre>	noice, .code=\@trydiagonaltrue,		
l	609		/.code=\@trydiagonalfalse,		
	610		.code=\trydiagonalfalse}		
	611				
	612	<pre>\cxset{try diagonal=false}</pre>	r		
	\trygrid	The try grid conditional provides a initially to true.	switch to switch the grid on o	or off. We set it	
1	613	\newif\iftrygrid			
l	614	\trygridfalse			
	615				
	616	try grid/.is choice			
1	617	try grid/true/.code			
	618	try grid/false/.cod			\textheight
l I	619	try grid/none/.code	=\trygridtalse}		598 pt
	620 621	\cxset{try grid=true}			000 p 2
		11.2 Allowances for tri	ims		
		Throughout we are focusing on the			
1		example use A4 paper and trim d	down to a different size. We	start form the	
		stockwidth and stockheight and w		aperheight to a	
		smaller size to cater for these trims			
		I call this process trimming in, increase the paper size to allow for			
		memoir class has something similar.		arger page. The	
\†rvnape	erwidth@cx	We set the length to stocksize-trime			
	rheight@&%	% set the trial paper size	=		
` ' '	623	% set the trial paper size \addtolength\trypaperwidth			
1	623	\addtotength\trypaperwidth			
1	625	\addtolength\trypaperheigh			
1	626	\addtolength\trypaperheigh	nt@cx{-\trimtop@cx}		
	627	\addtolength\trypaperheigh	nt@cx{-\bottomtrim}		
		11.2.1 Calculating the Top M	Margin and Bottom Mar	gin	
		We calculate the top and bottom n	_		
		far we are only dealing with default these will have to be recalculated.			
				\footskip 30pt	1
				\marginp	arsep 11pt
- 14-:					
oaası	idemargin 28 p	t	xtwidth 380 pt		\marginparwidth 101pt
driver margin	1 in				

									1	
						$1 \text{ in} + \text$	$topmargin\left(17pt ight) =$	= 55.27 p	pt	
					!	1			_ _	
					Page 22		\headheig	-h+ 12r		
					raye 22		\IIEaulie±9	Λt 1∠p	T T	
								sep 25 p	ot	
		628 629 630	%\addtolength	h\trymarginto	pp@cx{lin+\voff pp@cx{\dimexpr(rytopmargin@cx)	(\tryheadsep@c>				
			11.2.2 Adjustm	nents to text	height					
			Since we are trimn		_					
		a a re o	stock paper height. and bottom margins accordingly. Most people and reduce the text-heig on. In the meantim at the bottom marg	as smaller to allo d publishers are ight. We offer a n ne for the purpo	ow for the trimming e fussy about mar method to the us ose of defaults, w	ing or to reduce t rgins, so perhaps ser to specify pre we will take all th	the text height s it is better to eferences later			
\trvtex	theight@		Let trytextheight	-			ot value.			
(51)		631		_	cx{\textheight		t varue.			
		632		rymarginbotto						
		633	\dimexpr(\	\trystockheig	ht@cx-lin-∖tri					
		634 635	-\trynea	adheight@cx-∖	tryheadsep@cx-	\trytextne1gn	t@cx)\relax}			
		Т	\newlength\st	n g the Tria l drawn in a len	ngthy TikZ pictur					xtheight 598 pt
\drawt	riallayo	is	orovided by the use s the current layou The macro \drawtr	ut values.		_				
(ui awe.			dimensions.	-	aws the page diagological page of the page		roughout triar			
		638	\def\drawtria	allayout{%						
		ĉ	We first need to accordingly. If the		e on an odd or ev ne-side we defaul					
			odd-side page.				-			
		640 641 642 643 644 645	\ifoddpage \global\set	else\oddpaget tlength\tryin	rue\fi nnermargin@cx{\ .mexpr(lin+\try		F			
		646	\global\se		nnermargin@cx{					
		647 648	\setlength \fi	1)tryINNEK{ \u	limexpr(1in+∖tr	yinnermargined	CX+\hoTTSet);			
		649 650		Comlt	ikzpicture}[sc	10-0 42 font	-(\ccrintsize)	· rmfan	-:1\1 1j	- width= 8nt.
		651	every	node={color=	=black},		={\SCI 1pt3120,	, fill i am.	11 Ly 3 , c.z.	ne widinopi,
		652	book †	trim/.style={	color=theblue,	<pre>fill=white},</pre>			<u></u>	
							\footsk:	ip 30p	ot	
							,	\ margi	inparsep 1	11 nt
odds	idemargin	n 28 pt		\t	extwidth $380\mathrm{pt}$		•	(lila i gii		nparwidth 101 pt
<		←			SACHEGO CO.				(III.) _	DUI 1120211
driver margin	1 in									

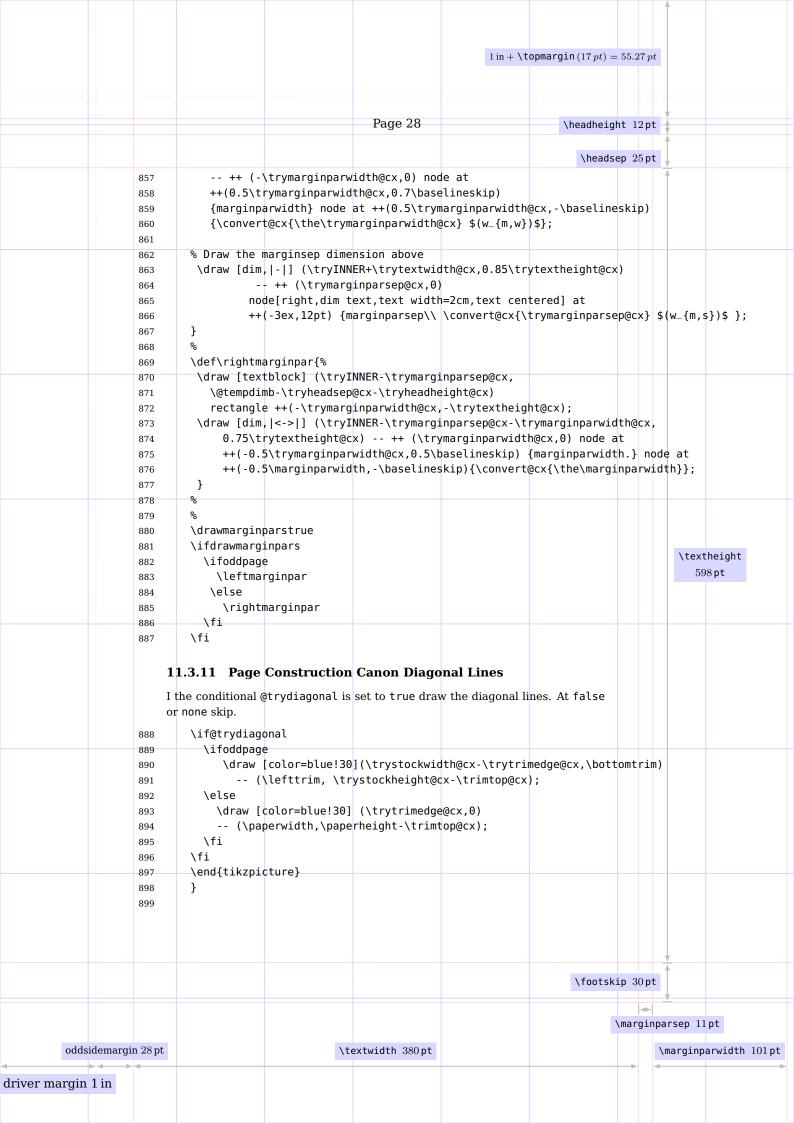
	1								Î		
							(1-1)				
						$1 \text{ in} + \text$	opmargin $(17 pt) =$	55.27	pt		
					Page 23		\headheig	ht 12 բ	ot .		
									1		
		653	dim 1	text/.style={c	olor=black}.		\heads	ep 25 p	ot		
		654		-	fill=gray,opac	ity=0.3}]					
		655 656	\edef\to]{-3	2.5\baselinesk	in}						
		657	%								
		658		perwidthdim{%							
		659 660		nate (A) at (0 nate (B) at (\	,\tol); trystockwidth@	cx -\trytrime	dge@cx,\tol);				
		661	\coordir	nate (C) at (0	.5\trystockwid	-	3 2 7 7 77				
		662 663		dim, <->] (A t (C) [vshift=) (B); 0.5∖baselinesk	(ip)]					
		664			rt@cx{\trypape		W_p)\$};}				
		665 666	% Draw pape	er width dimen	sion						
		667	\def\drawpap	perwidthevendi	m{%						
		668 669			+\trytrimedge@ trystockwidth@						
		670	\coordir	nate (C) at (0	.5\trystockwid						
		671 672		im, <->] (A) t (C) [vshift=	(B); 0.5\baselinesk	rin) l					
		673			rt@cx{\trypape		W_p)\$};				
		674	}								
		1	1.3.1 Draw s	tock naner							
			irst we draw the		stockheight					\texth	eight
		675		r=thegray] (0,	Ū					598	pt
		676			dth@cx,\trysto	ckheight@cx);					
		677 678	% draw the r	naner if trims	are defined a	and no book si	ze given				
		679	% the paper	•	defined by th		_				
		680 681	\ifoddpage	ok triml (A+V	lefttrim,\trys	tockheight@cv	-\trimton@cv\				
		682			stockwidth@cx-	-					
		683		rystockheight@ awpaperwidthdi	cx+\trimtop@cx m	:+\bottomtrim)	;				
		684 685	\else	awhahei winiiigi	III						
		686			lefttrim+\tryt	-		cx-\t	trimt	op@cx)	
		687 688		-	stockwidth@cx- cx+\trimtop@cx						
		689	\drav	wpaperwidtheve							
		690 691	\fi								
			1.3.2 Draw g								
			Inlike the grid on ssary. It set to tr		ve provide a con	ditional to switc	ch it off if nec-				
		692	-	macro{\gridx}{	10}						
		693	\iftrygrid	_	-						
		694	\ifoddpage	2					, X		
							\footsk	1p 30p	ot v		
								∖marqi	npars	sep 11p	t
oddei	idemargiı	n 28 pt		\+.	extwidth $380\mathrm{pt}$						width 101pt
oudsi		4 20 pt		(1)	extwirth 900 pt			-	\IIId	ii giiipal	width 101 pt
driver margin	1 in										

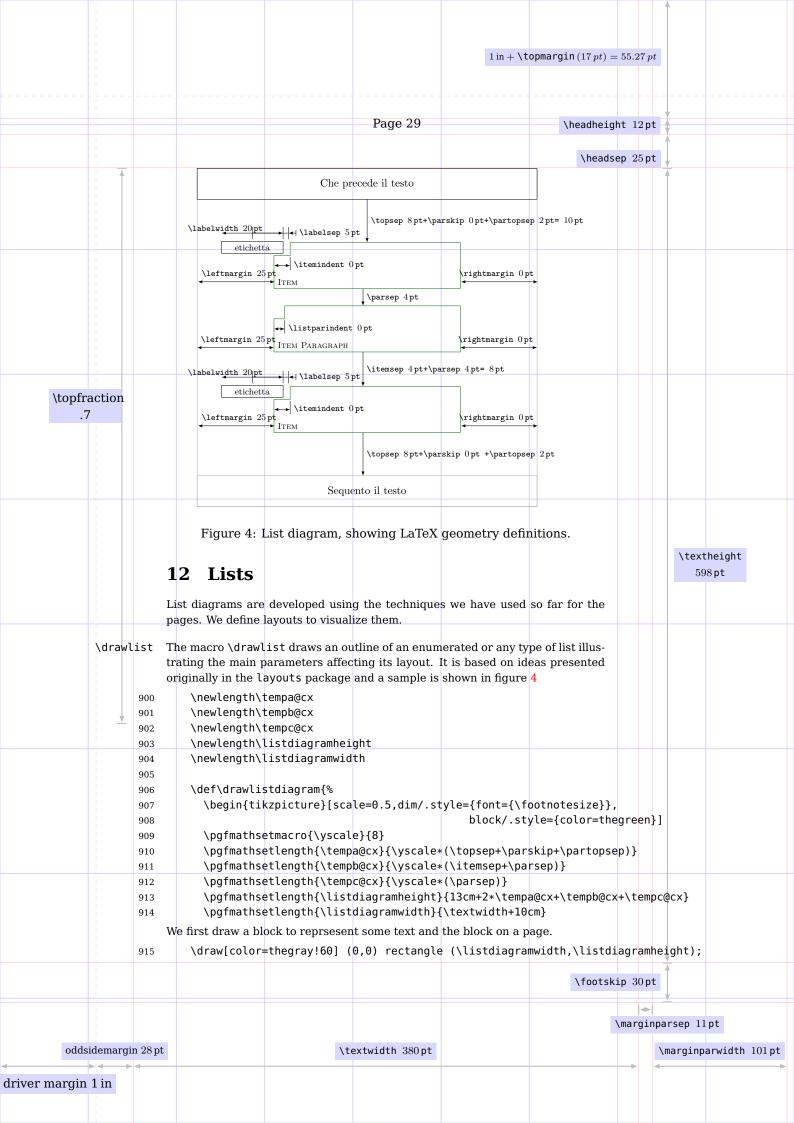
	1								1	
						$1 in + \t$	$opmargin\left(17pt ight) =$	= 55.27	pt	
					Page 24		\headheig	ht 12;	ot 1	
					3		,		1	
							\heads	ep 25 p	ot 🗼	
		695			rwidth@cx-\lef	_			1	
		696 697			ight@cx/\gridx ,yshift=\botto	_				
		698	(0,0)		perwidth@cx-\l);		
		699	\else	ten-(\trypane	rwidth@cx)/\gr	ridy				
		700 701			ight@cx/\gridx		en,			
		702	line	width=0.4pt,	yshift=\bottom	trim,xshift=\	trytrimedge@c>	‹]		
		703	(0,0 \fi) grid ++(\tr	ypaperwidth@cx	,\trypaperhei	ght@cx);			
		704 705	\fi							
		1	1.3.3 Drawin	g the binding	g correction					
		Tl	ne binding correc	tion is added to	the stockheight.	It will appear o	n the opposite			
		si	te in the even pag	ge.						
		706	\ifoddpage							
		707			t@cx + 3mm) m) ++(0,1cm		fttrim 0 5cm	۱ - ۱	-latovi	
		708 709		+(0.5cm+\left		i) ++(-1cm-\te	i cer im, -0.5cm,	/ L - > , -	-tatex]	
		710	\draw (0, \	trystockheigh	t@cx + 3mm)					
	I I	711			+ (\lefttrim,0 -latoxl ++/					
		712 713	node	[right] at ++	=latex] ++(- (1cm,0)					
		714	{\tr	anslate{bindi	ngcorrectionna	me}\ \convert	@cx{\lefttrim]	} \$(\c	lelta_b)\$	}. tHdiaht
		715	\fi							98 pt
		716 717	% stockwidth	dimension li	nes					
		718		\baselineskip						
		719		(BD) at (0,\t		1 i (i) .				
		720 721		(BD2) at (\st <->] (BD)	ockwidth,-5\ba (BD2);	setineskip);				
		722	\draw (BD) +	+ (0.5\stockw	idth,0)					
		723		ift=0.5\basel		¢ (\d ~\ +) -				
		724 725	{STOCKW10	rii=\convert@c	x{\stockwidth}	\$(W_S)\$};				
		726	% top dimens							
		727			,∖trystockheig	ht@cx-\trimto	o@cx);			
		728 729		(H2) at (-5mm kheight@cx-1i	, n-\trimtop@cx-	\trytopmarain	gcx-			
		730	\tryhead	height@cx-\tr	yheadsep@cx);	, . p g	-			
		731		<->] (H1)		rod dim tout?	2+			
		732 733			cm, text cente cx-0.5∗\margin		al			
		734		-	e\margintop}\\					
	I	735	0 h-++- !!		<u>.</u>					
		736 737		ension at lef (H3) at (-5mm	t ,0+\bottomtrim	1):				
		738	\coordinate	(H4) at (-5mm	,∖trymarginbot					
		739		<->] (H3)		1.4+1				
		740	\node[left,t	ext wiath=1.5	cm,text ragged	і (етт]			<u> </u>	
							\footsk	ip 30µ	ot	
									+	
								\margi	nparsep 1	l pt
oddsi	idemargir	n 28 pt.		\ † e	extwidth 380pt				\margin	parwidth 101pt
- Cuds	>	- P*		,				-		
driver margin	1 in									

					1 in + \t	$opmargin\left(17pt ight)$ =	= 55.27 pt	
						-		
				- +				
				Page 25		\headheig	ht 12pt	Ŷ.
						\heads	ep 25pt	
		741	at (-5mm,0.5*\trymarg					Ť
		742 743	<pre>{bottom\\ \convert@cx \$(h_{b})\$;</pre>	<pre><{ \the\trymargi</pre>	nbottom@cx}\\			
		744						
		745 746	<pre>% textheight at left \draw[dim,<->] (-5mm, \</pre>	trymarginhottom	(ACX)			
		747	++ (0,\trytextheig	nt@cx);				
		748 749	<pre>\node[left,text width=1. at (-5mm,\trymarginbo</pre>			1		
		750	{\CS{textheight} \con			,		
		751	\$(h_x)\$ };					
		752						
		1	1.3.4 Book height					
			Book sizes are specified by the					
			here is no need to worry about tide these for consistency and for	_		_		
			ureau for printing.	i books that are p	ernaps to be sen	t to an on-me		
		753	\draw [dim, <->] (-4.7c	m,\bottomtrim)				
		754	(-4.7cm,0.5\trystockhe	-				
		755 756	<pre>node[left,text width=1 {\translate{bookheight}</pre>			rheight@cx}} ·		
		757	(-4.7cm,\trystockheigh	it@cx-0.5\trimto	p@cx) ;			
		1	1.3.5 Draw the edge trin	n				\textheight
			The paper is always assumed to		hottom and the	odgo margin		598 pt
			We first draw the edge trim and	-	bottom and the	euge margin.		
		758	\ifdim\trytrimedge@cx>0p	t				
		759 760	<pre>\ifoddpage \coordinate (D) at (\</pre>	trystockwidth@c	x-4\trvtrimed	ne@cx.		
		761	0	.10\trytextheig	ht@cx);			
		762 763	\coordinate (E) at (\ \draw [dim,->] (D) -			theight@cx);		
		764	\draw [dim, <-] (E)	++(3\trytrim	edge@cx,0)			
		765 766	<pre>node at ++(0,0) [ri {trimedg</pre>	-	2cm,dim text]			
		767	\convert@cx{\the\tr					
		768 760	<pre>\$(\Delta_e)\$}; \else</pre>					
		769 770	\coordinate (D1) at (0	, \trystockheig	ht@cx+ 5mm);			
		771	\coordinate (E1) at ++		_			
		772 773	\draw (D1) ++ (0, 1 \fi	++(\trytr (\اااااان	ı⊪euge@cx,⊍)	++(U,-1UMM)	' ;	
		774	\fi					
		1	1.3.6 The top trim					
			The top trim The trim The top t	t is very small nor	mally we try not	to crowd the		
			abel and the dimension lines. W					
						\ footsk	ip 30pt	
	1					TOULSK	Th 20 hr	<u> </u>
							→ \marginpa	arsep 11pt
odds	sidemargii	n 28 nt		textwidth $380\mathrm{pt}$				marginparwidth 101pt
- Odus	- domaryn	4 20 pt		continuatii 900 pt			-	mar griipai wru cii 101 pt
driver margin	1 in							

```
1 \text{ in} + \text{\topmargin} (17 pt) = 55.27 pt
                                                            Page 26
                                                                                           \headheight 12pt
                                                                                              \headsep 25pt
                      775
                      776
                              %\ifdim\trimtop>0pt
                      777
                                 \coordinate (F) at (0.9\trystockwidth@cx,\trystockheight@cx-\trimtop@cx-8mm);
                      778
                                 \coordinate (G) at (0.9\trystockwidth@cx,\trystockheight@cx-\trimtop@cx);
                      779
                                 \coordinate (H) at (0.9\trystockwidth@cx,\trystockheight@cx);
                      780
                                 \draw (F)[dim,->|,>=latex] -- (G);
                      781
                                \draw (H) -- ++ (0,8mm) -- ++ (5mm,0)[|<-|,>=latex]
                                         node [text width=2cm, right] at ++ (0,3pt) {\translate{trimtopname}\
                      782
                                         \\ \convert@cx{\the\trimtop@cx} $(\Delta_t)$};
                      783
                              %\fi
                      784
                          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);
                                  \draw[dashed,color=olive] (1in,0) -- (1in,\trystockheight@cx);
                      786
                      787
                                  \draw[dashed,color=olive] (0in,\trystockheight@cx-lin)-- ++ (\trystockwidth@cx,0);
                                  \draw [dim,|<->|](0,0.3cm)-- (1in,0.3cm) node at (0.5in,0.6)[dim text] {\translate{oneinch
                      788
                             Draw the inner margin. We use innermargin which has already been set to
                          either oddsidemargin or evensidemargin
                      789
                              % Draw left = 1in + innermargin
                      790
                                                                                                              \textheight
                              \setlength\tryleftmargin@cx{\dimexpr(1in+\innermargin)}
                      791
                              \draw[dim, <->|] (0in, 1.9cm) -- (1in+\innermargin, 1.9cm)
                                                                                                                 598\,\mathrm{pt}
                      792
                              node at (0.6in,3.2cm)[text width=lin,dim text,text centered]
                      793
                      794
                              795
                               (1in, 1.2cm)[|<->|] -- ++(\innermargin,0) node[right,dim text]
                      796
                               {\innermarginname\ \convert@cx{\the\innermargin} $(\Delta_i)$};
                      798
                      799
                                   add topmargin dimension
                      800
                      801
                              \setlength{\@tempdimc}{\dimexpr(lin-\trimtop@cx+\trytopmargin@cx)\relax}
                      802
                      803
                              \coordinate (S1) at (\trystockwidth@cx+3ex,\trystockheight@cx-\trimtop@cx);
                              \draw [dim, |<->|] (S1)
                      804
                                     -- ++ (0,-\@tempdimc-\trimtop@cx)
                      805
                                    node [right, dim text, text width=3.5cm] at
                      806
                                    ++(2ex,0.5\@tempdimc) {\convert@cx{\@tempdimc} $(\delta_t)$
                      807
                      808
                              \\ \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-
                      809
                                                   \trimtop@cx-lin-\trytopmargin@cx}
                      810
                      811
                               \draw[textblock] (\tryINNER, \@tempdimb)
                      812
                      813
                                        rectangle ++ (\trytextwidth@cx,-\tryheadheight@cx);
                                                                                             \footskip 30pt
                                                                                                    \marginparsep 11pt
         oddsidemargin 28 pt
                                                      \textwidth 380pt
                                                                                                           \mbox{\mbox{\it marginparwidth}}\ 101\,\mbox{\it pt}
driver margin 1 in
```

	1								1	
						$1 \text{ in} + \text$	opmargin $(17pt)$ =	= 55.27 pt		
									-	
					Page 27		\headheig	ht 12pt	<u> </u>	
					-				1	
							\heads	ep 25 pt	<u>*</u>	
		814 815	% add headh	neight dimensi	on				Î	
		816		-	(\trystockwidt	h@cx+3ex, ∖@t	empdimb)			
		817			height@cx) noc	le [right,dim	text] at			
		818 819		2ex,0.3\tryhea S{headheight}	dheight@cx) \convert@cx{\t	he\tryheadhei	aht@cx} \$(h {k	1.h})\$}:		
		820	%	fileddileighej	(CONVENERGENT (C	ine (er yneddiie)	קוונפטאן קיווב נו	ι,,,ψ,,		
		821		adsep dimensio						
		822 823			kwidth@cx+3ex, height@cx-\try					
		824			p@cx) node [ri] at			
		825	++(26	ex,-0.8\tryhea	dsep@cx){h	neadsep}				
		826	\con\	/ert@cx{\the\t	ryheadsep@cx}	\$(h_{h,s})\$};				
			11.3.9 Type ar	rea						
			Next we add the t		dimension					
		827 828		J) at (\tryI) limh-\tryheads	NNEK, ep@cx-\tryhead	lheight@cx):				
		829			angle ++ (\try		-\trytextheigh	nt@cx);		
		830			(\tryINNER,0.7	∕5\trytextheig	ht@cx)			
		831 832	1	/textwidth@cx, -(-0 5\trytext	0) width@cx,0.8\k	naselineskin){	\lahelit@cv{\t	evtwidt	·hll·	
		833	noue at +	r(-0.5(trytext	widingex, 0.0 (t	Jase cineskip) ((tabetitgex) (Lextwide	.1155,	
		834		theight dimens					\textheigh	t
		835			kwidth@cx+3ex, dsep@cx-\tryhe				598 pt	
		836 837			ht@cx) node [r	_		=2.5cm]		_
		838	at +-	⊦(2ex,0.5\tryt	extheight@cx)	_				
		839	{	{textheight}\\	\convert@cx{\	the\trytexthe	ight@cx}\$(h_x)	\$};		
			11.3.10 Foote	r						
			Add the footer and							
					NINED					
		840 841		(I) at (\tryI tempdimb-\try						
		842	\1	tryheadheight@	cx-\trytexthei					
		843			angle ++ (\try				nacy.	
		844 845		· ·	h] (\trystockv ytextheight@c>		@rembατmp-/tr)	meausep	ngcx-	
		846	++(0,-\1	tryfootskip@cx) node [right,					
		847		0.5\tryfootski	F .					
		848 849	\labelit	L@CX{\tryfoots	kip@cx}\$(h_f)\$);;				
		850	%							
		851	% marginpar							
		852 853	\def\leftman		yINNER+\tryte>	(twidth@c⊻+\†r	vmarqinnarsen@	acx -		
		854			eadsep@cx-\try				nrginparwidth	n@cx,-∖tr
		855			NNER+\trytextv		arginparsep@c>	(
		856	+\trymarq	jinparwidth@cx	,0.75\trytexth	neignt@cx)			\	
							\footsk	ip 30pt		
								\margin=	arcon 11 n+	
odda	idemargi	n 98 nt		\ . +	ovtwidth 200 st				arsep 11pt marginparwidt	h 101 r+
ouds	idemary.	11 20 pt		\t	extwidth 380 pt			→	\mar y±iiparw±0T	.11 101 pt
driver margin	1 in									





```
1 \text{ in} + \text{\topmargin} (17 pt) = 55.27 pt
                                                                  Page 30
                                                                                                    \headheight 12pt
                                                                                                       \headsep 25\,\mathrm{pt}
                                 \draw[color=thegray!60] (0,0) rectangle (\listdiagramwidth, 2cm);
                        916
                        917
                                 \draw (0,\listdiagramheight) rectangle (\listdiagramwidth,\listdiagramheight-2cm)
                        918
                                            node at ++ (-0.5\listdiagramwidth,1cm){\translate{precedingtextname}};
                        919
                                 \node at (0.5\listdiagramwidth,1cm) {\translate{followingtextname}};
                             Next we are going to draw the item shape. First we draw the rectangle with the
                             indentation.
        \putlistblock@cx
                                 \def\putlistblock@cx##1##2{%
                                   \coordinate (A) at (##1,##2);
                                    \coordinate (B) at (##1-40pt,##2-20pt);
                                    \draw[block] (A) -- ++ (\textwidth,0pt)
                        923
                                                          -- ++ (0, 3cm)
                        924
                                                         -- ++ (-\textwidth+ 30pt,0)
                        925
                                                         -- ++ (0, -24pt)
                        926
                                                         -- ++ (-30pt,0)
                        927
                                                          -- ++ (0,-3cm+24pt);
                        928
                                  % dra wthe label rectangle
                        929
                                   \displaystyle \frac{1}{2} \left[ \frac{1}{2} \left( \frac{1}{2} \right) + \frac{1}{2} \left( \frac{1}{2} \right) \right] + \frac{1}{2} \left[ \frac{1}{2} \left( \frac{1}{2} \right) + \frac{1}{2} \left( \frac{1}{2} \right) \right]}
                                        node[dim] at ++(-2cm,-11pt) {\translate{labelname}};
                        931
                        932
                                   % draw dimension lines
                        933
                                   draw (B) ++ (0, 3cm+26pt) -- ++ (0,0.8cm) ++ (2cm,-0.8cm) --++ (0,0.8cm) ++ (10pt,-0.8cm)
                                             --++ (0,0.8cm); %labelsep
                        934
                                 % draw arrows
                        935
                                    \settowidth\@tempdima{labelwidth}
                        936
                                                                                                                        \textheight
                                    \draw[dim] [<->,>=latex] (B) ++ (-2cm, 3cm+26pt)++(0,0.4cm)-- ++(4cm,0)
                        937
                                                                                                                           598\,\mathrm{pt}
                                      node[dim] at ++ (- 2cm-\@tempdima-50pt,8pt)
                        938
                                      {\labelit@cx{\labelwidth}};
                        939
                        940
                                   \draw[dim] (B) ++ (0, 3cm+26pt+0.4cm) -- ++ (2cm+10pt,0)
                                                       ++ (0.5cm, 0) - -++ (-0.5cm, 0)[|->,>=latex]
                        942
                                                       node[right] at ++(0.45cm,0) {\labelit@cx{\labelsep}};
                        943
                                 % draw itemsep
                        944
                        945
                                    \draw[<->,>=latex] (A)++(0,1.5cm) -- ++(30pt,0);
                        946
                        947
                                   \draw (A)++(30pt,1.20cm )--++ (0pt,1.8cm-27pt) node at ++(0,0)[below right]
                                    {\labelit@cx{\itemindent}}; % draw dimline
                        948
                                      \node[dim] (A) at (##1,##2)[above right] {\textsc{Item}};
                        949
                        950
                        951
                                       draw leftmargin and right margin
                        952
                                 \draw[<->,>=latex] (A) ++ (-24pt,0pt) -- ++(-5cm,0pt)
                        953
                                           node at ++(0,0)[above right] {\labelit@cx{\leftmargin}};
                        954
                                 \draw[<->,>=latex] (A) ++ (-24pt+\textwidth,0pt) -- ++(5cm,0pt)
                        955
                                          node at ++(0,0)[above left] {\labelit@cx{\rightmargin}};
                        956
                        957
                                 }
                                 બુ
                        958
                        959
                                 \def\putlistparblock@cx##1##2{%
                        960
                                   \coordinate (A) at (##1,##2);
                        961
                                   \coordinate (B) at (##1-40pt, ##2-20pt);
                        962
                        963
                                   \draw[block] (A) -- ++ (\textwidth,0pt)
                                                                                                     \footskip 30pt
                                                                                                             \marginparsep 11pt
          oddsidemargin 28 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 31
                                                                                            \headheight 12\,pt
                                                                                               \headsep 25\,\mathrm{pt}
                      964
                                                     -- ++ (0, 3cm)
                      965
                                                     -- ++ (-\textwidth+ 20pt,0)
                      966
                                                     -- ++ (0, -24pt)
                                                     -- ++ (-20pt,0)
                      968
                                                     -- ++ (0,-3cm+24pt);
                      969
                      970
                                 \draw[<->,>=latex] (A)++(0,1.5cm) -- ++(20pt,0);
                                 \draw (A)++(20pt,1.20cm )--++ (0pt,1.8cm-27pt) node at ++(0,0)[below right]
                      971
                                       {\labelit@cx{\listparindent}};
                      972
                      973
                                  \draw[<->,>=latex] (A) ++ (-0pt,8pt) -- ++(-5cm,0pt)
                      974
                                        node at ++(0,0)[above right] {\labelit@cx{\leftmargin}};
                      975
                      976
                                  \frac{<->,>=latex}{(A)} ++ (0pt+\text{width},8pt) -- ++ (5cm,0pt)
                                       node at ++(0,0)[above left] { \labelit@cx{\rightmargin}};
                      977
                      978
                                  \node[dim] (A) at (##1,##2)[above right] {\textsc{Item Paragraph}};
                      979
                               }
                      980
                      981
                      982
                               % We start by drawing the blocks. We draw three blocks, the first and last show items, wherea
                      983
                               % the middle one shows a paragraph within an item.
                      984
                               % Since values for list parameters are small, we scale everything up.
                      985
                                     |\tempa@cx = scaled topsep + parskskip + partopsep|
                      986
                               બુ
                                     |\tempb@cx = scaled itemsep + parsep|
                      987
                                                                                                               \textheight
                                  \end{macrocode}
                      989
                                                                                                                  598\,\mathrm{pt}
                                  \begin{macrocode}
                      990
                               \putlistblock@cx{5cm}{2cm+\tempa@cx} % 8cm
                      991
                               \draw [<-,>=latex] (0.5\paperwidth, 2cm)-
                      992
                                            -++(0, \tau) node at ++(0, -0.5 \tau) [right]
                      993
                                           {\labelit@cx{\topsep}+\labelit@cx{\partskip} +\labelit@cx{\partopsep}};
                      994
                      995
                               % second block
                      996
                               \putlistparblock@cx{5cm}{2cm+\tempa@cx+3cm+\tempb@cx}
                      997
                               \det [->,>=latex] (0.5\paperwidth, 2cm+\tempa@cx+3cm+\tempb@cx)--++(0,-\tempb@cx)
                      998
                      999
                                     node at ++(0,0.5\tempb@cx) [right]
                     1000
                                     {\labelit@cx{\itemsep}+\labelit@cx{\parsep}=
                                         \pgfmathparse{\itemsep+\parsep}\convert@cx{\pgfmathresult}};
                     1001
                     1002
                               %% third block
                     1003
                     1004
                               \putlistblock@cx{5cm}{2cm+\tempa@cx+6cm+\tempb@cx +\tempc@cx}
                     1005
                               \draw [->,>=latex] (0.5\paperwidth,2cm+\tempa@cx+6cm+\tempb@cx +\tempc@cx|)
                                     --++(0,-\tempc@cx)
                     1006
                     1007
                                     node at ++(0,0.5\tempc@cx) [right] {\labelit@cx{\parsep}};
                     1008
                     1009
                               % add finally the top arrow
                               \draw [->,>=latex] (0.5\listdiagramwidth, \listdiagramheight-2cm)--++(0,-\tempa@cx)
                     1010
                     1011
                                    node at ++(0,0.5\tempa@cx) [right]
                     1012
                               {\labelit@cx{\topsep}+\labelit@cx{\parskip}+\labelit@cx{\partopsep}=
                     1013
                                    \pgfmathparse{\topsep+\parskip+\partopsep}\convert@cx{\pgfmathresult}};
                     1014
                                                                                             \footskip 30pt
                                                                                                    \marginparsep 11pt
          oddsidemargin 28 pt
                                                       \textwidth 380pt
                                                                                                            \marginparwidth 101pt
driver margin 1 in
```

	1						1
				$1 \text{ in} + \setminus 1$	$topmargin\left(17pt ight) =$	55.27~pt	
			Page 32		\headheigh	nt 12 nt	*
			149001		(neddielgi	12 pc	*
					\headse	ep 25 pt	*
	1015	%					
	1016 1017	<pre>\end{tikzpicture} }</pre>					
	1	12.1 Tabulating	List values				
\print		The command \printlis	F	_	the list param-		
		eters and their values (se	ee Table 1 for an examp	le).			
			Parameter V	alue			
			leftmargin 1.8	3 pc			
			rightmargin 1.8	3 pc			
				0 рс 2 рс			
				2 pc 2 pc			
				0 p c			
				3 pc			
				7 рс 7 рс			
				7 pc			
							\textheight
		Table 1: Tabulation of	LaTeX list values, for	the quotation e	environment.		598 pt
) 1 6					
	1018 1019	\def\printlistval \begin{tabular}	-				
	1020	\toprule					
	1021		\ Value\\				
	1022 1023	\midrule leftmargin	& \convert@cx{\the\l	eftmargin}\\			
	1024	rightmargin a	& \conve <mark>rt@cx{\the\</mark> r	ightmargin}\\			
	1025		<pre>\$ \convert@cx{\itemi </pre>				
	1026 1027		& \convert@cx{\label & \convert@cx{\label				
	1027		& \convert@cx{\listp				
	1029	topsep	& \conve <mark>rt@cx{\topse</mark>	p}\\			
	1030 1031		<pre>& \convert@cx{\parto & \convert@cx{\parto</pre>				
	1031		& \convert@cx{\parse & \convert@cx{\items				
	1033	\bottomrule					
	1034 1035	\end{tabular} }					
	1035	J					
		13 Draw a Fo	nt hov				
		J Diaw a ru	III DUA				
		We provide a command					
		TikZ for drafting and sty	ning. We also provide t	ne macro \print			*
					\footski	p 30 pt	
						marginna	arsep 11pt
				_			
odds	sidemargin 28 pt		\textwidth 380p			1	marginparwidth 101pt
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<u> </u>							

	1					1	
				41 - 1 NA			
				$1 \text{ in} + \text{ \tc}$	opmargin $(1.42pc)$ =	=4.61pc	
			Page 33		\headheig	ght 1pc	
					\headsep	2.08 pc	
		print font parameters. Th	nis will produce a tabl	e as shown in Table	2 and Table 3.	1	
			Parameter	Value			
			Font encoding	T1			
	1		font family font series	fve m			
			font shape	n			
			font size baselineskp	10 12.0pt			
		Table 2. For					
		Table 2: Fon	t details for the cur	rent document 10	116.		
		Paramet	er	Value			
			en1 (slant per point				
		fontdime	en2 (interword spacen3 (interword stret	ce) 2.86197pt			
			en4 (interword shri	· · · · ·			
			en5 (x-height)	4.67096pt 8.99994pt			
			en6 (quad width) en7 (extra space)	0.68399pt			
		Table 3: Font dim	ension details for th	ne current docume	ent font.	\	textheight
		To draw a fontbox, we					49.83 pc
			lth = 4.48 pc				
	1	x-height=1.39 pc	70 7 1				
		depth=0.43 pc	JOCO \ height=1	1.82 pc			
		This draws Q werty.					
\nrint	fontparams						
/μι τιι τ	1036	\print					
	1037	\begin{tabular}	{lc}				
	1038 1039	\toprule Parameter	& Value\\				
	1040	\midrule					
	1041 1042	Font encoding font family	g & \f@encoding\\ & \f@family\\				
	1043	font series	& \f@series\\				
	1044	font shape	& \f@shape\\				
	1045 1046	font size baselineskp	& \f@size\\ & \f@baselineskip	2//			
	1040	\bottomrule	~ (.@				
	1048	tabular]	}				
	1049	}					
	1				\footski	p 2.5 pc	
						±	0.00 = -
oddoir	demargin 2.33 p	C	\textwidth 31.60	6 nc	\(\lambda\)	marginparsep	inparwidth 8.42 pc
odusit	Londrym 2.00 p		(textwidth 31.00			\iiiai y	±ρατωτατί
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					$1 \text{ in} + \sqrt{\cos \mu}$	$opmargin\left(1.42pc ight) =$	= 4.61 pc	
				1				
				Page 34		\headheig	jht 1pc	*
				1				
`tont					-	\headsep	2.08 pc	Δ
\printfont			·	:				Î
		1050 1051	<pre>\newcommand{\printfontd \begin{tabular}{lc}</pre>	imensions}{%				
1		1051	\toprule					
		1053	Parameter & Value	a\\				
		1054	\midrule					
į l		1055	fontdimen1 (slant p					
1		1056	fontdimen2 (interwo		\the\fontdimen			
1		1057	fontdimen3 (interwo	·		ontdimen3\font\		
1		1058	fontdimen4 (interwo			ntdimen4\font\\	\	
1		1059	fontdimen5 (x-heigh					
1		1060	fontdimen6 (quad wi			[
		1061	fontdimen7 (extra s	pace) & \tne\ion	tdimen/\Tont\\	^		
J		1062	\bottomrule					
į į		1063 1064	\end{tabular} }					
1		1064	}					
\dra	wfontfr	rame	The macro $\drawfontbox\{\langle text \rangle\}$	$\{t\}$ draws text in a	box and annota	ites it with di-		
•	rawfont		mensions. A very similar macro					
Į.			with TikZ it can be drawn more			_		
1			macros.	-		-		
		-	We define some new length		values for the fo	ontbox dimen-		
			sions, although PGF provides its					
		1065	\newlength\xheight@cx					
1		1065	\newlength\xwidth@cx					
		1066	\newlength\xdepth@cx					\textheight
1		1067	\newlength\xtotal@cx					49.83 pc
1		1069	\newsavebox{\fontbox}					
1		100.		11 -t-ling the l	[
1			We set a number of keys to e					
1		1070	fontbox font/.st			[
1		1071		lor/.store in=\fo				
1		1072	fontbox label fo	ont/.store in=\fo	ntboxlabelfont	r@cx}		
1		1073		'				
1		1074	% Set reasonable defa	ults				
1		1075	%					
1		1076	fontbox font={\i					
 		1077	fontbox line col	·				
1		1078	fontbox label to	ont={\upshape\foo	tnotesize}}			
1			Define a macro to draw a tig	wht frame around to	ext. This can be v	ased for inline		
1			text and hence we use \tikz to	•				
1			See (How to align a series of tike	_	-	· ·		
1			See also how to determine the	7		š.		
1		1079	\newcommand\drawfontfra					
4		1079	\tikz[baseline=(X.bas	-	vlahelfont@cx	110		
1		1081	\node[rectangle,dra					
1		1082	_	oxlinecolor@cx] (
1		1083	\draw[\fontboxlinec					
1		1084	circle(0.4pt)[fil			[
1		1085	}	1	[
		1086	%					+
1						\footskip	2.5 nc	†
						(100.00) 2.0 pc	
							+	
J						\m	narginpar	rsep $0.92\mathrm{pc}$
oddsi	demargin	0.23r	_	1	i j	[V	marginparwidth $8.42\mathrm{pc}$
Oddon	1emary	2.50 pc		\textwidth 31.66pc	{			marginparwidth 6.42pc
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1								

	1						†
				$1 \text{ in } + \backslash \text{to}$	opmargin $(1.42pc)$ =	- 4 61 nc	
				1111 (60	pmu1 g1n (1.42 pc) =	4.01 pc	
			Page 35		\headheig	ht 1pc	Y Y
					\headsep	2.08 pc	
	1087	\def\drawfontbox#1{%			, , , , ,		<u>Y</u>
	1088	{\itshape\fontboxfon					
	1089 1090	\savebox{\fontbox}{#: \xl	-	fontbox}			
	1091	\xv	width@cx}{\wd\f	ontbox}			
	1092 1093	<pre>\x</pre>			ecx}		
	1093	\begin{tikzpicture}[so		-		t@cx}}]	
	1095	\node[rectangle,drav				d1	(V has asst).
	1096 1097	\draw[red, line wid \draw[<-> ,>=latex			cle(ipt)[fill=	rea]	(X.Dase east);
	1098				ve=-5pt,midway]{width	n = \convert@cx{\xwi
		We next draw the x-height of	the text				
	1099 1100	% draw the xheight \draw[<-> ,>=latex	lahell/[vchif+	5ntlY hasa	act)		
	1100		ot] X.north wes		C31)		
	1102		dway,label] {x-	neight=\conver	t@cx{\xheight@	cx}};	
	1103 1104	% draw depth \draw[- ,>=latex,lal	pell([xshift=-5	otlX.base west)		
	1105	([xshift=-5	ot] X.south wes	t)			
	1106 1107	node [left,mio	dway,label] {dep		x{\xdepth@cx}}	;	
	1107	++(0,-8pt);	X31111 (=-5pc]X.30	Julii West)			
	1109	% draw total height					
	1110 1111	% \draw[<-> ,>=latex,labe	ell([xshift=5nt	lX.north east)			\textheight 49.83 pc
	1112	·	t] X.south east				49.83 pc
	1113	node [right,m:	idway] {height=	\convert@cx{\x	total@cx}};		
	1114 1115	\end{tikzpicture}}					
	1116	}					
		12.1 Sunday					
		13.1 Sundry					
		Here are assorted macro definit	ions.				
		The (document-level) command			_		
	\linefoot	ified count is reached. The co numbered line, but with a footnot					
		crements the line counter. Thes	_				
		documents. Because the counter is global	lly advanced and i	never reset, succ	essive calls to		
		\lineloop should have an argur	nent ever larger. 5				
		each line labeled with its ordina	l number.				
	1117 1118	<pre>\newcounter{linecount} \def\loop@line#1#2{%</pre>					
	1119	\par					
	1120	\hb@xt@%					
	1121 1122	\global\advance#1\@ne \edef\@tempa{\@ifnum{:	100>#1}{0}{}\@i	fnum{10>#1}{0}	{}\number#1}%		
	1123	\@tempa\edef\@tempa{\			-		<u> </u>
					\footski	2.5 pc	A
	1						+
					\n	narginpa	rsep $0.92\mathrm{pc}$
oddsid	emargin 2.33 p	С /	textwidth $31.66\mathrm{pc}$			\	marginparwidth $8.42\mathrm{pc}$
driver margin	1 in					→	*
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	I I						

	1								†	
						4		4.01		
						1 in + \ CC	opmargin $(1.42pc)$ =	= 4.61 p	c	
					Page 36		\headheig	ght 1p	C	
									1	
							\headsep	2.08 p	C	
		1124		th2.5\p@#2\le	aders\hrule\hf	il			Î	
		1125 1126	}% }%							
		1127	\def\lineloo	p#1{%						
		1128		\loop@line\c@	linecount{}\@i	fnum{#1>\c@li	necount}}%			
		1129	}%	±#1 (o						
		1130 1131	\def\linefoo	c@linecount{%						
		1132								
		1133	#1∖specia	l{foot:#1}\vr	ule depth2.5\p	@\leaders\hru	le\hfill			
		1134	}%							
		1135 1136	}% }%							
		1130	1 0							
		1	1 A DA:	- 1 TA71 •		l (BATAT				
		1	l4 Minim	ai Worki	ng Examp	oies (MW	Ł)			
		W	Ve generate a nur	nber of example	es to illustrate us	sage and to test	the code. The			
			rst example test	_		-				
			f pictures to illust							
		1137	\documentcla	ss[twoside,10	pt]{book}					
		1138		tikz,changepa	ge,fancyhdr,am	smath,booktab	s}			
		1139	\usepgflibra							
		1140			1					
		1141 1142		german]{babel german]{xlayo					\	textheight
		1142		d{\topfractio						49.83 pc
		1144		d{\bottomfrac						
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		1149		topnumber}{9}		J				
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		1153 1154	<pre>g \begin{docum</pre>							
		1155	Int							
		1156	\thispagesty	le{grid}						
		1157	figur		L - + 1 Co					
		1158		\figureparams {\figureparam						
		1159 1160	/TI CODI COAL	t vi i gui epai alli	2 t)) Huus					
		1161	\centering							
		1162	\includegrap		.9\columnwidth					
		1163			demonstrate t	op fraction.}				
		1164 1165	<pre>\end{figure} \lipsum[1]</pre>							
		1166	(cipsum[i]							
		1167	\lipsum[1]							
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				$1\mathrm{in} + \backslash topma$	rgin(1.42pc) = 4.61pc	
			Page 37		\headheight 1pc	Ť
						Ť
	 				\headsep 2.08 pc	<u> </u>
	1168 1169	This has been drawn us	sing Tik7\footnote	sΩ kleine nrogram	m }Anot	her footnote }
	1170	\lipsum[1-2]	Jing Tikz (Toothote	it kterne program	ii. j (100tilote (Allot	ner roothoterj.
	1171	\begin{figure}[t]				
	1172	Example imag	=			
	1173 1174	\includegraphics[width \figure		images/nineu2}%		
	1175	\end{figure}	54. diii3 cop) ()			
	1176	\begin{figure}[tpb]				
	1177	\centering	-	//b04		
	1178 1179	\includegraphics[heighth			ı	
	1179	\end{figure}	_ 15 Gamons cruce (
	1181	-				
	1182	\begin{figure}[tpb]				
	1183 1184	<pre>\centering \includegraphics[width</pre>	n=/columnwid+hl{	images/hine04-yy	}	
	1185	Example image		-		
	1186	\end{figure}				
	1187	\lipsum				
	1188 1189	\clearpage \onecolumn				
	1189	% draws the spread				
	1191					
	1192	\drawcanons				\textheight
	1193 1194	\printreadability				49.83 pc
	1194	\pagestyle{plain}				
	1196	\newpage				
	1197	% draws a trial layou	t			
	1198 1199	\drawtriallayout \newpage				
	1200	\drawtriallayout				
	1201	\newpage				
	1202	\drawlistdiagram				
	1203 1204	<pre>\printlistvalues \end{document}</pre>				
	1204	<*test-02>				
	1205	<*test-02>				
	1205 1206	%% File: test-02.tex				
	1207	% Tests xlayout for s	scrbook class.			
	1208	% 26/05/2012				
	1209	%% &&				
	1210 1211	%% \documentclass[twoside	e.10ptl{scrbook}			
	1211	tikz,chang	F	ısmath}		
	1213	arrows				
	1214	\usepackage{lipsum}	2011			
	1215 1216	<pre>\uspackage[german]{bal \usepackage[german]{x</pre>				
	1217	\topfrace				\
	1				\footskip 0.5	†
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					-	
					\marginp	arsep 0.92pc
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