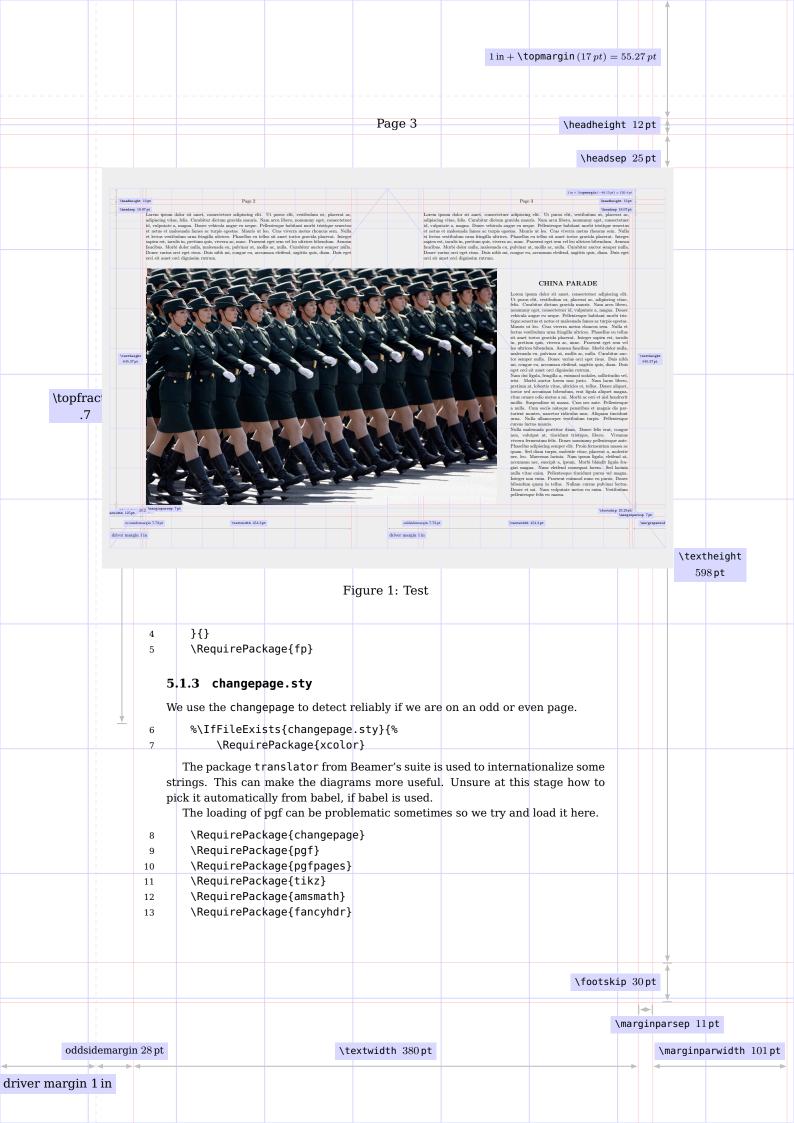
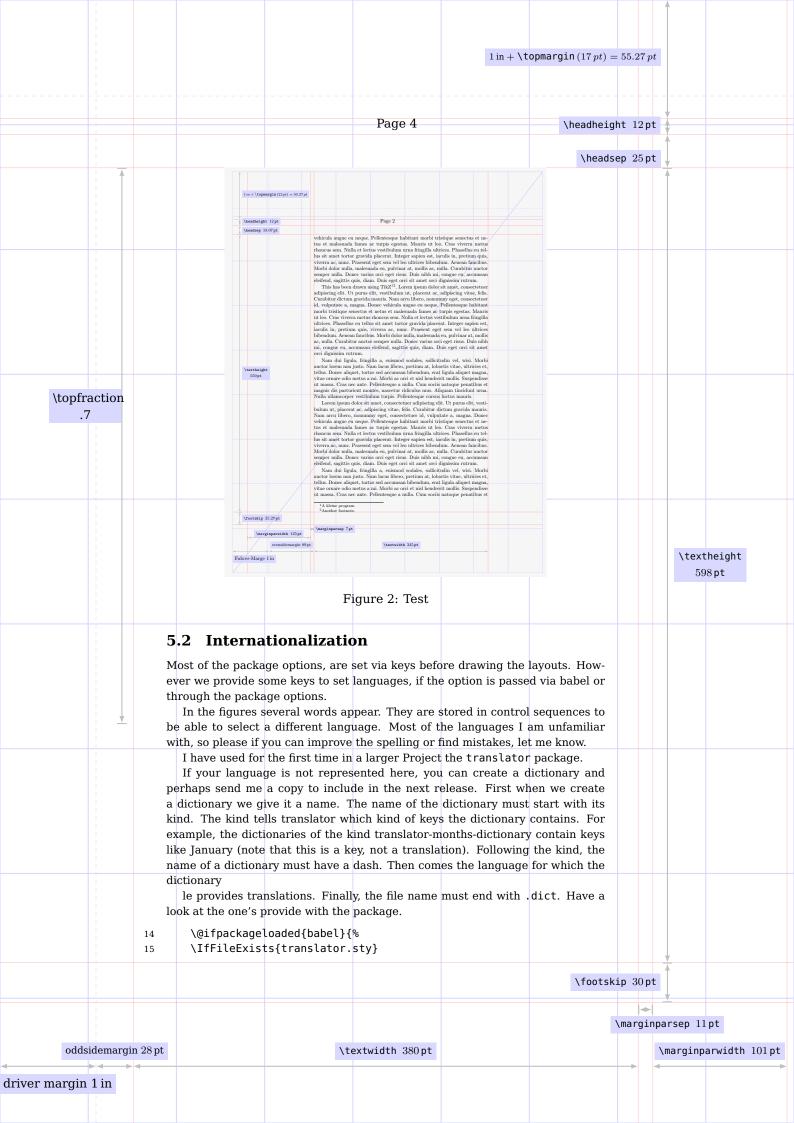
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				Dr Vi	nnic	Lazario	dec			
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					Abst	ract				
		bı aç ha lis	Current layout asily permit, the at does not indicage arose when I as a number of use of styling option ovides macros for the styling options.	ate clearly what was developing tilities, one of w ons is provided	s. The each differ hich is via a	package g line repre cent page shown in	eometry darws sents. The need layouts for chap this publication	a page layout, for this pack- oter heads. It . An extensive		
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		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 Reada	ability	17		
		5	Implementati	on	2	11 Page	Layout Diagra	ms 18		
			-	cies nalization		11.1N	ew lengths	18		
				hs and switches			llowances for tri rawing the Trial			
						12 Lists	<u> </u>	28		
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			5.7 Crop mark	S	. 9	13 Draw	a Font box	32		
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				n document .			nal Working	_		
			_	t and headsep t		(MWI 14.1 L	E) ist standalone	36 diagram		
				ip			IWE	_		
				out diagonal line		15 Dictio	onaries	40		
		6	Running head	l definitions	13	16 Refer	ences	42		
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			The package is us ble:	ed like any othe	r LaTeX package	e, by including it in	the pream-		
			x		a ba laadad ugin	g the \cxset macro	_		
		%		nded that options et{geometry uni		The /cxset magic).		
			2 Introdu	action					
				_		Vilson's layouts pac	•		
						ayout.sty of Kent I page geometry on			
		p	page. The packa	age offers addition	ional features, su	uch as styling com	nmands and		
			_			ension lines and va easier. It works in a			
			classes.						
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			3 Produc	ing pages	s two-up				
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		1	4 Page La	ayouts					
		-			can include a pag	ge layout in your do	ocument.		
			Horo are	01 01	All mores 1	o layout	Tourism.		
		ŗ	5 Implem	nentation	1				
		-	The implementati	ion, uses PGF to	set the key value	e parameters and T	fikZ to draw		
		t.	the layout. We try	y to avoid clashe	-	ckages by using the			
		1	for all internal ma	icros.					
		ŗ	5.1 Depend	lencies					
		F	5.1.1 latex.l ⁻	.tx					
		F	5.1.2 xcolor.	sty					
						package. The follo	_		
			nal macros are us \set@page@color	-	declaredcolor,	\current@color,\	set@color,		
		1		ts{color.sty}{	{%				
		2	\Require	ePackage{color	r}%				
		3	/tet/iiea	edscolor@cx\@e	empty		\ footskir	20 nt	
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		17 18	}% {\RequirePac	ckage[french,d	utch,german,it	alian,english	l{babel}		
		19	\IfFileExis	ts{translator.	sty}	-			
		20	{\Requ	uirePackage{tr	anslator}\type	out{Translato	r package load	led.}}{}}	
		21							
		22 23	\usedictiona		selanguage{ger	rmanll			
		23 24			select@languag		elanguage{engl	ish}}	
		25	\DeclareOpt:	ion{italian}{\	select@languag	e{italian}\use	elanguage{ital		
		26			lect@language{				
		27			elect@language	{french}\usela	anguage{french	1}}	
		28	\Process0pt:	LUIIS*					
			5.3 New lei	ngths and s	witches				
		7	Ve need a few ne			d and the lawout	DH — naner		
			neight PW = paper	-		-	. Fii – papei		
		29	\newlength\s		, ,				
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		37		PW{\paperwidth NNER	}				
		38 39	\newlength\l						
		40	\newlength\a						
		ŗ	5.4 Colors						
		(One of the reason	s that I have cre	eated the packag	ge is to provide l	oetter looking		
			ayouts to be inclu				e a number of		
		C	colors to make it e	,		J			
		41		_	b}{0.02,0.04,0				
		42 43		_	b}{0.65,0.04,0 b}{0.06,0.44,0				
		44			n}{rgb}{0.06,6				
		45	\definecolo	r{thegrey} {gr	ay}{0.5}				
		46		r{thegray} {gr					
		47 48		r{thedarkgray} r{theshade}{gr					
		49		r{theframe}{gr	-				
		50			b}{1,0.95,0.4}				
		51		r{spot}{rgb}{0					
		52 53		r{boxframe}{gr r{boxfill}{rqb	ay}{0.8} }{0.95,0.95,0.	99}			
		54			gb}{0.118,0.54				
		55	\definecolo	r{themacro}{rg	b}{0.784,0.06,	0.176}		3	7
							\footsk:	ip 30pt	
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							•	\marginpa	rsep 11 pt
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					_				1	
		56	\definecolor	·{EvamnleFrame	}{rgb}{0.628,0	705 0 0421	\heads	ep 25 p	ot ↓	
		57	\definecolor	{ExampleBack}	{rgb}{0.963,0.	971,0.994}				
		58 59		:{Hyperlink}{r ehyperlink}{t	gb}{0.281,0.27 heblue}	5,0.485}				
		60	\newcommand*	{\defaultcolo	r}{blac	k}}				
		61			\color{spot}}	. 1	1. 11.			
		f	The @diagonal or classical layout		o let the user cho it initially at fals		diagonal lines			
		62	\newif\if@di							
		63 64	∖@diagonalfa	lse						
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		66 67	\newif\ifdra \drawmarginp							
		68								
		69			_	_				
\printur	nitsof(This macro has be printed in the diag		n the layouts p	ackage, it sets t	he units to be			
		70		\printinunits						
		71 72		itperpt{1.0}\ {#1}\def\l@yt	def\l@yunits{p b{pt}%	t}%				
		73	\ifx \l@yt	:a\l@ytb						
		74 75	\def\l@y \else	runitperpt{1.0	}\def\l@yunits	{pt}%			\tex	ktheight
		76	\def\l@y							598 pt
		77 78		Ayta\l@ytb .@yunitperpt{0	.083333}\def\l	@yunits{pc}%				
		79	\else		1	c, (1)				
		80 81		@ytb{in}% l@yta\l@ytb						
		82		\l@yunitperpt	{0.013837}\def	\l@yunits{in}	%			
		83 84	\else \def	\l@ytb{mm}%						
		85 86		:\l@yta\l@ytb lef\l@yunitner	pt{0.351459}\d	ef\l@vuni+c/m	m1%			
		87	\els	e		io i (tegyunii to (iiii	m, o			
		88 89		lef\l@ytb{cm}% .fx \l@yta\l@y						
		90		\def\l@yunitp	erpt{0.0351459	}\def\l@yunit	s{cm}%			
		91 92		lse \def\l@ytb{bp	}%					
		93		\ifx \l@yta\l	@ytb	41) da£\ 10 '	ta (hnìo			
		94 95		\def\l@yuni \else	tperpt{0.99626	4}\ueT\l@yuni	LS{Dβ}%			
		96 97		\def\l@ytb{ \ifx \l@yta						
		98		\def\l@yu	nitperpt{0.934	5718}\def\l@y	units{dd}%			
		99 100		\else \def\l@yt	b{cc}%					
		101		\ifx \l@y					<u></u>	
							\footsk:	ip 30 p	ot [
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	oma	20-4		.	over de de la 2000 de			\marg1	nparsep 1	
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	102		\def\l@	@yunitperpt{0.0	0778809}\def\l		p zopt	<u>'</u>
	103	%	\else		77,0000, (==:	eyanizes (o., .		
	104	% &		l@ytb{PT}%				
	105 106	%		\l@yta\l@ytb f\l@yunitperpt{	{1.0}\def\l@yu	nits{PT}% give	s proble	ems with pgfmathpars
	107	%	\fi		-	-		
i	108 109		\fi \fi					
	110		\fi					
	111	\f	fi					
	112	\fi \fi						
	113 114	\fi						
	115	\fi						
	116	}						
\con		The macro \conveunits to another. U		-	ert dimensions fi	rom one set of		
	117		\convert@cx[1]					
	118		parse{#1*\l@yu th for roundin					
	119 120			ng to 2 decimal ogfmathresult}\		units		
	121	}	, ,	/g /	(Charley)	U112 2 2		
\calcs	chift@cx	Helper command t	to reposition the	e arid note it nec	eds to run twice t	to position the		
,		grid properly.	0 16h00101011 ***	, griu, 11060 10	305 10 1 411 11.1.2.	to hosinon erre		\textheight
	122		\calcshift@cx{	{%				598 pt
	123		Τ	pgfpictureid}\@	1			
	124 125		cess{\pgfpoint th\shiftx@cx\p	torigin\@basepo pgf@x)1nt}%			
	126	-	th\shifty@cx\p					
	\cs							
	127	\newcommand\	\CS[1]{\footno	otesize #1}				
\lab		The macro \label this is expected to	o get more intelli	ligent in future v	ersions.			
	128	\newcommand\	labelit@cx[1]]{\ttfamily	{\string#1} \c	onvert@cx{#1}}		
1		We define its o	wn family of key	ys.				
	\cxset	The macro \cxset	t is used to eithe	er define a new l	cey or set an exis	sting one.		
	129				-	is pgf q keys		
		5.5 Keys						
		We are now ready	to start defining	g keys. We use F	GF Keys to defin	ne the keys.		
	130	-		ode=\printinuni				
	131 132	-		color/.store ir color/.store i				
i i	132	-		color/.store i				
<u> </u>	134	-	-	nal/.is choice,			<u></u>	<u>/</u>
						\footski	.p 30 pt	
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oddsider	margin 28 pt	ŧ.	\t	textwidth $380\mathrm{pt}$			\m	narginparwidth 101pt
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							\headse	en 25 r	ot T		
		135	ae	eometry diagon	al/true/.code=	-\@diagonaltru			*		
		136	-		al/false/.code	_					
		137	-		al/none/.code=	-					
		138	-		al color/.stor						
		139 140	-		row type/.stor steps/.store i		yarrowtype@cx,				
		141	-		steps/.store i						
		142	-				rygridlinewidt	h@cx,	.		
		143					riverlines@cx,				
		144	-	eometry driver	lines color/.	store in=\geo	metrydriverlin	escol	.or@	cx,	
		145	}		, ,						
			e set some defau becify any param		ne keys and prev	ent errors, if th	e user doesn't				
		146		etry diagonal=	true,						
		147	-		al color=blue!	20,					
		148	g€	eometry lines	color=pink,						
		149	-		color=blue!15,						
		150	-	eometry grid c							
		151 152	-		ine width=0.8p row type=latex						
		152	-	eometry units=		,					
	1	154		eometry grid x							
		155	-	eometry grid y							
		156	-		lines=dashed,						
		157	g€	eometry driver	lines color=b	lue!15}				\textheight	
	\ag	rid T	he macro \agrid	is the main dra	wing command.	It draws the lay	out.			598 pt	
		158									
		159	\newcommand\	agrid{%							
		160	-	•	lor=\geometryl						
		161		•		_	ryarrowtype@cx				
		162				_	rylabelcolor@c	x},			
		163 164	gr		ne width=\geom color=\geometr						
		165	dr		\geometrydrive		,				
		166		-	\geometrydrive		x}}				
		167									
		168	tikzp	oicture}[remem	ber picture, c	overlay]					
			e need to detect	-							
			checkoddpage fro			r oneside docum	ients all pages				
			re treated as odd			.	\ haadbattit v				
		169	\pgfmathsetl \checkoddpac	-	rH-11N-\voffse	et-\topmargin-	\headheight-\h	eadse	(qe		
		170 171	· 1	je% le we treat th	em as odd						
		172		else\oddpaget					+		
		173	\ifoddpage	2							
		174		margin\oddsid	_						
		175		_	INNER}{lin+\ir	-	ffset}				
		176 177	\gaet\ \else	timermarginna,	me{oddside	::::a: y±11}}%					
		•	(==30						*		
							\footsk:	ip 30 p	ot		
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						$1 in + \t$	opmargin $(17pt)$:	= 55.27 p	ot	
					D. O				+	
					Page 9		\headheig	jht 12 p	t	
							\heads	ер 25 р	t	
		178 179		ermargin\evens	idemargin ∖INNER}{1in+\i	nnermargin+\h	nffsetl		1	
		180	\gdef		ame{evensi	-	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
		181 \	\fi We need to shift th	ne whole lavout i	in order to achie	ve an integral nu	ımber of arids			
			his is done with c	alcshift@cx ¹ .		5 g	g			
		182 183	\calcshift@ scop		hiftx@cx, yshi	.ft=-\shifty@c:	xl			
		1	Ve will first draw t	the grid. This is	one of the main f	eatures of the pa	ackage. We do			
			his using the gricoordinates. This	_			_			
			easier the steps in							
		184 185	% \draw [gri	.d,xstep=\PW/\	xsteps@cx,yste	:p=\PH/\ysteps	@cx]			
		186			.south west) g					
		ŗ	5.6 The driv	ver margin	S					
			Printer's cannot al	•		e paper. Knuth	allowed a one			
			nch margin for th		_					
			Adjustment to the		_					
	\voff		voffset. All maj he crop may use t			_	-			
		187		ver] (lin,0) -						theight 98pt
		188	\draw [driv	er] (0,\PH-li	n) ++(\PW,0)	;				
		5	5.7 Crop m	arks						
			f the option crop he four corners of		age will print cro	p marks. These	are printed at			
		189		e width=0.4pt,	_					
		190 191		_	0mm) circle(2. 7.5mm,-2.5mm)-		,0)			
		192 193	%	e width=0.4pt,						
		193	% (8+25mm,	\stockheight-	30mm+2.5mm)					
		195 196	% ++ (0),-2.5mm)circl	e(2.5mm) ++(-2	.5mm,0mm)++	(5mm,0);			
		197								
			5.8 Vertical	lines						
			For no particular		draw the vertic	al lines. We also	o define some			
	i		co-ordinates to rec							
		198 199			<pre> (\INNER,\F extwidth,0)</pre>					
		200	\ifoddpage			(=) ((11))				
		¹ See	discussion at tex.sx						<u></u>	
							\footsl	кір 30 р	t	
								\ marai	nparsep 1	nt
	doma	n 90 t			over 14 deb 200 mg			(marg1		
oddsi	demargii	11 28 pt		\t(extwidth 380 pt			-	\marginp	arwidth 101pt
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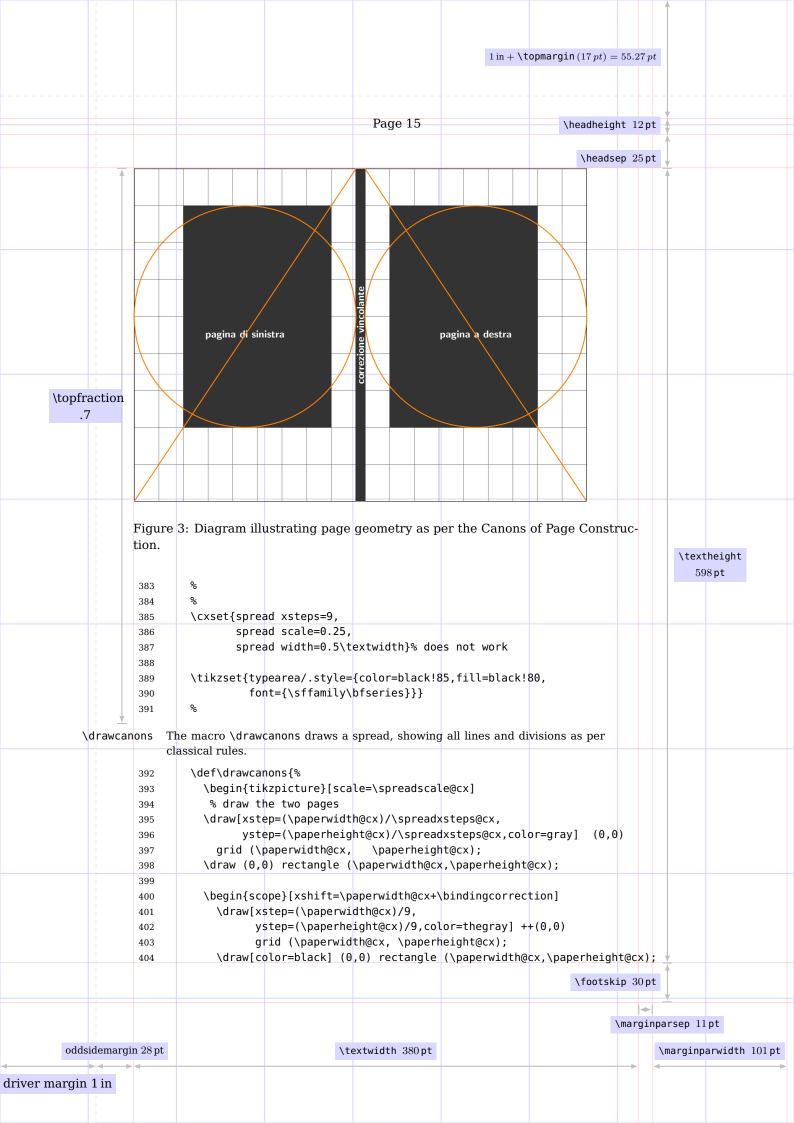
```
1 \text{ in} + \text{\topmargin} (17 pt) = 55.27 pt
                                                             Page 10
                                                                                             \headheight 12pt
                                                                                                \headsep 25pt
                                  \draw[lines] (\INNER+\textwidth+\marginparsep,0)
                      201
                      202
                                    -- (\INNER+\marginparsep+\textwidth,\PH);
                      203
                                  \draw[lines] (\INNER+\textwidth+\marginparsep+\marginparwidth,0)
                      204
                                     -- (\INNER+\marginparsep+\marginparwidth+\textwidth,\PH);
                      205
                                \else
                                  \draw [lines] (\INNER-\marginparsep,0) -- ++(0,\PH);
                      206
                                  \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
                      217
                                  \draw [lines](1in+\innermargin+\columnwidth+\columnsep,\TOP)
                      218
                                         -- ++(0,-\textheight);
                      219
                               % Draw twocolumn dimension lines
                                  \draw [dim,<->](\INNER, \TOP-\textheight-1.8em)
                                     -- ++(\columnwidth,0) node[above, dim label]
                                    at ++(-0.5\columnwidth,3pt) {\labelit@cx{\columnwidth}};
                      222
                                  \draw [dim,<->](\INNER+\columnwidth, \TOP-\textheight-1.8em)
                      223
                                    -- ++(\columnsep,0) node[above, dim label] at
                      224
                                    ++(-0.5\columnsep,3pt) {\labelit@cx{\columnsep}};
                      225
                                  \draw [dim,<->](\INNER+\columnwidth+\columnsep,
                      226
                      227
                                    \PH-lin-\topmargin-\headheight-\headsep-\textheight-1.8em)
                      228
                                    -- ++(\columnwidth,0) node[above, dim label] at
                                    ++(-0.5\columnwidth,3pt) {\labelit@cx{\columnwidth}};
                      229
                               \fi
                      230
                           We then position and draw the dimension lines and labels.
                      231
                               \ifoddpage
                                  \pgfmathsetlength\tol{lin+\innermargin+\textwidth+2\marginparsep}
                      232
                                  \draw [dim, <->](\tol,\PH)-- ++(0,-1in-\topmargin);
                      233
                               \else
                      234
                      235
                                  \pgfmathsetlength\tol{2\marginparsep}
                                  \draw [dim, <->](\tol,\PH)-- ++(0,-1in-\topmargin);
                      236
                               \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
                      239
                               \ifoddpage
                                  \draw [dim](\tol,\PH-1in-\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.
                      251
                               \ifoddpage
                                  \draw [dim,<->](\tol,\PH-lin-\topmargin)-- ++(0,-\headheight)
                      252
                                                                                                                  \textheight
                                     node[above left, dim label] at ++(-1ex,0){ \labelit@cx{\headheight}};
                      253
                                      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
                                  \draw [dim,<->](\tol,\PH-lin-\topmargin)-- ++(0,-\headheight)
                                     node[above right,dim label] at ++(lex,0){ \labelit@cx{\headheight}};
                      260
                               % draw headsep
                                  \draw [dim,<->](\tol,\PH-1in-\topmarqin-\headheight)-- ++(0,-\headsep)
                      261
                                     node[above right, dim label] at ++(1ex,0){\labelit@cx{\headsep}};
                      262
                               \fi
                      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.
                      264
                               \draw [dim, |<->](\tol,\TOP)
                                   -- ++(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.
                               \ifoddpage
                      267
                                  \draw [dim, |<->|](\tol,\TOP-\textheight)
                      268
                                                                                                \footskip 30pt
                                                                                                       \marginparsep 11pt
                                                                                                               \mbox{\mbox{\it marginparwidth}}\ 101\,\mbox{\it pt}
          oddsidemargin 28\,\mathrm{pt}
                                                        \textwidth 380pt
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 0pt 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)
                                                 310
                                                                          {\labelit@cx{\textwidth}};
                                                            5.14 Marginpar dimensions
                                                            There are three controlling lengths that position the marginpar block. The
                   \marginparwidth
                                                            marginparwidth is troublesome, in that some classes don't really worry about
                        \marginparsep
                      \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}};
                                 \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)
                       327
                                   {\labelit@cx{\marginparwidth}};
                       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 diag-
                            onal lines to check. This feature can be switched off. The direction of the line
                            depends if we have an odd or even page.
                                \if@diagonal
                       334
                                  \ifoddpage
                       335
                                    \draw [\diagonalcolor@cx,thick] (\PW,0)--(0,\PH);
                       336
                       337
                                     \draw [\diagonalcolor@cx,thick] (0,0)--(\PW,\PH);
                       338
                                   \fi
                       339
                       340
                                \fi
                                \end{scope}
                       341
                                \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.
                       343
                                \def\ps@grid{%
                                    \let\@oddfoot\@empty\let\@evenfoot\@empty
                                    \def\@evenhead{\agrid}%
                                    \let\@oddhead\@evenhead
                       346
                                                                                                 \footskip 30pt
                                                                                                        \marginparsep 11pt
          oddsidemargin 28\,\mathrm{pt}
                                                         \textwidth 380 pt
                                                                                                                \mbox{\mbox{\it marginparwidth}}\ 101\,\mbox{\it pt}
driver margin 1 in
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						$1 \text{ in} + \t$	copmargin $(17pt)$ =	= 55.27 pt	t
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							\heads	ep 25 pt	t
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		348 349		aptermark\@gob ctionmark\@gob					
		350	}	c c c c c c c c c c c c c c c c c c c	btc				
			7 Float p	arameter	S				
\fiau	reparam	bot '	The macros \figu	ıreparambot att	empt to draw di	mension lines ir	n figures. This		
. 3	i		is very much worl	k in progress, a	s to draw them				
			some of the intern	_	t routine.				
		351 352	\def\figure		ember picture,	overlavl			
		352	_		tempdima{-\tex				
		354	\draw	[>=latex, <->] (0,0)++(6				
		355		[right]	v+floatssa\				
		356 357		+ (1ex,-0.5\te textfloasep} \	xtrioatsep) convert@cx{\te	extfloatsep}}:			
		358	tikzp						
		359	\par						
		360 361	} \def\figure	naramston{%					
		362	\par	our ums cop (o					
		363	_		member picture				
		364 365		•	mpdima{-\textf (0,0)++(0,\	• •			\textheight
		366			metrylabelcolo				598 pt
		367	at ++ (1	lex,0.5\textfl	oatsep)				
		368	{\CS{text} tikzp		nvert@cx{\text	floatsep}};			
		369 370	\end(t1k2) }	orcture}%					
			8 Spread						
			o spread						
			The package prov		to draw a two p	age spread as p	er the canons		
			of page constructi This is aimed a		d alone diagram	s for inclusion in	ito other pack-		
			ages or LaTeX not				The paon		
		371	\newlength\r	paperwidth@cx					
		372	\newlength\r	paperheight@cx					
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		374	-	oindingcorrect	ion				
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Page 17 \(\text{headheight 12pt} \) 10 Readability In general the width of the typed area should not exceed 45-65 characters. This is language and reader dependent. \alphabet The macro \alphabet returns the twenty six letters of the English language. This is used later on to calculate the length of an alphabet and provide related	
Page 17 \tag{headheight 12pt} 10 Readability In general the width of the typed area should not exceed 45-65 characters. This is language and reader dependent. \alphabet The macro \alphabet returns the twenty six letters of the English language. This is used later on to calculate the length of an alphabet and provide related	
Page 17 \tag{headheight 12pt} 10 Readability In general the width of the typed area should not exceed 45-65 characters. This is language and reader dependent. \alphabet The macro \alphabet returns the twenty six letters of the English language. This is used later on to calculate the length of an alphabet and provide related	
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10 Readability In general the width of the typed area should not exceed 45-65 characters. This is language and reader dependent. \alphabet The macro \alphabet returns the twenty six letters of the English language. This is used later on to calculate the length of an alphabet and provide related	
10 Readability In general the width of the typed area should not exceed 45-65 characters. This is language and reader dependent. \alphabet The macro \alphabet returns the twenty six letters of the English language. This is used later on to calculate the length of an alphabet and provide related	
In general the width of the typed area should not exceed 45-65 characters. This is language and reader dependent. \alphabet The macro \alphabet returns the twenty six letters of the English language. This is used later on to calculate the length of an alphabet and provide related	
In general the width of the typed area should not exceed 45-65 characters. This is language and reader dependent. \alphabet The macro \alphabet returns the twenty six letters of the English language. This is used later on to calculate the length of an alphabet and provide related	
is language and reader dependent. \alphabet The macro \alphabet returns the twenty six letters of the English language. This is used later on to calculate the length of an alphabet and provide related	1.4
This is used later on to calculate the length of an alphabet and provide related	
metrics for the readability of the text.	
440 \def%	
441 \normalfont\selectfont\raggedleft%	
442 abcdefghijklmnopqrstuvwxyz}	
\charactersperline The macro charactersperline typesets the number of characters in a line of text. We use \pgfmathprintnumber to format and print the number.	
443 \newcommand%	
444 \settowidth{\@tempdima}{\alphabet} 445 \pgfmathparse{\textwidth/\@tempdima*26}	
445 \pgfmathprintnumber{\pgfmathresult}	
447 }	
\alphabetsperline Some people are more familiar with the metric alphabets per line rather than characters per line. We provide the macro \alphabetsperline.	
448 \newcommand%	
449 \settowidth{\@tempdima}{\alphabet}	
451 \nafma+hracul+	theight 98pt
452 }	8 ρτ
\alphabetlength The macro \alphabetlength prints the length of the alphabet.	
453 \newcommand%	
454 \settowidth{\alphlength}{\alphabet}	
455 \pgfmathparse{\alphlength} 456 \pgfmathprintnumber{\pgfmathresult}pt	
456 \pgfmathprintnumber{\pgfmathresult}pt 457 }	
We need to use the fp package to calculate the ratios, as PGF has problems with large dimensions or I am making an error	
458 \newcommand%	
459 \FPmul{\result}{\strip@pt\textwidth}{\strip@pt\textheight}	
460 \FPmul{\resulti}{\strip@pt\paperwidth}{\strip@pt\paperheight}	
461 \FPdiv{\resulti}{\resulti} 462 \pgfmathprintnumber{\resultii}	
462 \pgf\mathprInthu\mber{\resuttI}\} 463 }	
464	
465 % Calculate the ratio textheight/paperheight 466 \newcommand%	
466 \newcommand\textheightratio{% 467 \FPdiv{\result}{\strip@pt\textheight}{\strip@pt\paperheight}	
468 \FPround{\result}{\result}{2}	
469 \result	
470 } 471	
\footskip 30pt	
\marginparsep 1	l pt
oddsidemargin 28pt \textwidth 380pt \margin	parwidth 101pt
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							\heads	ep 25 pt	
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		473 474	\ nowcommand\	textheighttop	anorwidth(%				
		474			aperwidtht% ight/\paperwid	lth}			
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		490	tabular	-}}					
		i	11 Page I This is one of the r ng a page diagrar 11.1 New le	n, so that you ca	eatures of the p	- 7			\textheight 598pt
			We need to isolate						
			liagram. We redef suffix @cx.	me new lengths	ior aii paramete	ers with the prefi	a cry and the		
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		492 493		rypaperheight rytextheight@					
		494	\newlength\t	ryheadheight@					
		495 496		ryheadsep@cx ryfootskip@cx					
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		498		rymarginbotto rytopmargin@c					
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		504	\newlength\t	rymarginparse	p@cx				
		505 506	\newlength\t	ryleftmargin@ ryinner@cx	CX				
						n the paper is t			
		t	they default to the	dimensions for	paper width and	paper height, if	not specified.	1	7
							\footsk	ip 30pt	
								+	
								\marginpa	rsep 11pt
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			ne memoir class a e class.	also defines the	m. If they are de	fined, we use th	e values from		1	
	 		e class.							
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		519 520		ry stock/.code stockwidth=\pa	=} % a4paper e nerwidth}	etc to be deve	loped toninght			
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		TA 7	-							
		-522	e set all the trim %	s to zero to star	t WILII.					
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							\heads	sep 25pt	
		553	}						
		554	%						
		555 556	\thetop						
		557							
		558 559		marginbottom %					
		560	\pgfmath	parse{\stockhe		omargin+\headh	eight+\headse	p+\texth	eight)}
		561	\pgfmat }	hsetlength{\ma	rginbottom}{\p	gfmathresult}			
		562 563)						
		564	\thebottom						
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			ment, dimension			1			
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		567	try	headheight/.co	de=\global\set	length\tryhead		},	
		568				ght, % TO CHE			
		569 570			\global\setler lt=\headsep, %	ngth∖tryheadseµ sTODO CHECK	0@CX{#1},		
		571	try	footskip/.code	=\global\setle	ngth\tryfootsl	kip@cx{#1},		
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		574			ault=\topmargi		argingex{#i},		
		575	}						\textheight
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		582	try	_					
		583 584	_	headheight, headsep,					
		585	try	footskip,					
		586		topmargin=0pt, trimtop=10pt}	% compensate	for trim			
		587 588	Lry	ri imrob=10br}					
		589	\setlength\	trytopmargin@c	x{\topmargin}				
		590 591							
		592			_	ength{\trytex		},	
		593		trimedge/.code	=\global\setle	ength{\trytrime	edge@cx}{#1},		
		594 595	}						
		596		textwidth=\tex					
		597	try	trimedge=10pt}					
\@t	rydiago		he switch \@try anon, diagonal l	-	l in keys to draw	or skip the Page	Construction		
		598	\newif\if@t	rydiagonal					\
							\foots	kip $30\mathrm{pt}$	
								+	¥
								\marginpa	rsep 11pt
odds	idemargi	n 28 pt		\t	extwidth $380\mathrm{pt}$			V	marginparwidth 101pt
driver margin	1 in	◀						+	-
uriver margin	1 111								

								†
						$1 in + \t$	topmargin $(17pt)=55.27$	27 pt
<u> </u>			'	† !	ļJ	1		
					Page 21		\headheight 12	2 nt
					ruge		(IICuancia)	pc
							\headsep 25	5 pt
		599	\@trydiagona	alfalse				1
		600 601	trv	diagonal/.is c	chaice			
		601		-	cnoice, /.code=\@trydia	agonaltrue,		
		603	try	diagonal/false	e/.code=\@trydi	iagonalfalse,		
		604	try (diagonal/none/	/.code=\trydiag	onalfalse}		
		605	\	diamonal—false	<u> </u>			
		606		diagonal=false				
	\tryg	-	The try grid condi initially to true.	itional provides	a switch to switc	h the grid on or	off. We set it	
		607	\newif\iftry					
<u>_</u> J		608	\trygridfals					
	1	609		- In add		1		
i J		610 611		grid/.is choice	ce, de=\trygridtrue	1		
		611		T	de=\trygridtrue ode=\trygridfal			
		613		T	de=\trygridfals			
		614						
		615	try o					
				ances for tr		_		
			Throughout we are					
į l			example use A4 p stockwidth and st	7 -				\textheight
l l			smaller size to cat	-	1	rwidth and par	erneight to a	598 pt
į l			I call this prod	cess trimming in	in, whereas other		· ·	
į l			increase the paper	er size to allow fo	or the trims, thus		· ·	
+			memoir class has s	something simila	ir.			
\trypape	erwidth	n@cx	We set the length	to stocksize-trir	nedge.			
\trypape			ū		zes as per trim	sizes		
<u>i</u>		617			th@cx{\trystock			
i l		618	\addtolength	h\trypaperwidt	th@cx{-\trytrim	medge@cx}		
i l		619	-		ght@cx{\trystoc	-		
1		620	_		ght@cx{-\trimto			
		621	\addtotengti	n\trypaperneig	ght@cx{-\bottom	trim}		
1			11.2.1 Calcula	ating the Tor	Margin and E	Pottom Marg	in	
1				_	_	_		
1			We calculate the	_	_			
1			far we are only de these will have to	-	-	user changes u	e dimensions,	
1						· · · · · · · · · · · · · · · · · · ·		
1		622 623			op@cx{lin+\voff op@cx{\dimexpr(
		623	-		op@cx{\dimexpr(rytopmargin@cx)		(+	
1		02 -	·	incig	y copina. g_	(*)		
l l			11.2.2 Adjust	tments to text	i height			
1			Since we are trim			nd un being sm	allon than the	
			stock paper heigh	-	_			
			Stoon Par	i. 0110 -12	1000	Ciolon	\footskip 30	0 pt
								
				'			\mary	ginparsep 11 pt
oddsi	sidemargir	n 28 pt	4 '	\tf	textwidth $380\mathrm{pt}$			\marginparwidth 101pt
driver margin	1 in	—						

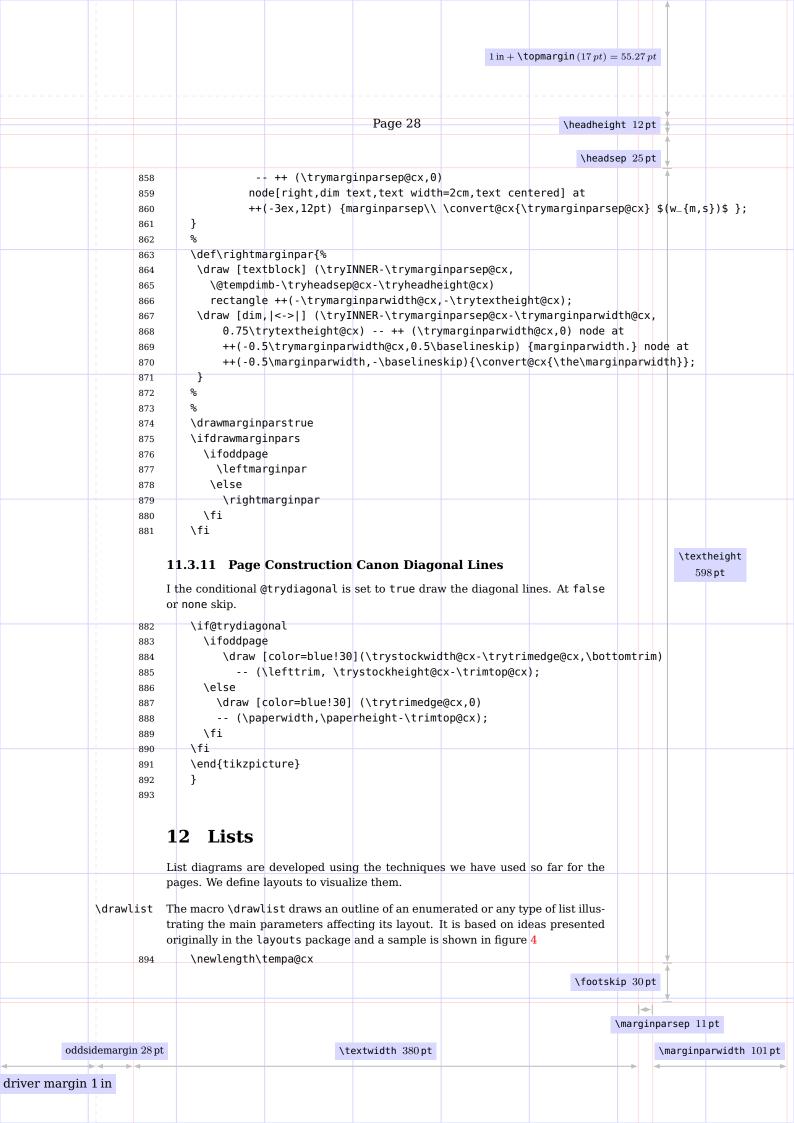
	 								†	
						$1 \text{ in} + \text$	$copmargin\left(17pt\right) =$	55.27 pt	t.	
							ορα. <u>9</u> (<i>1</i>)	00.2.7		
									_	
					D-~- 72		مام فرماله و حالم	10.54	<u></u>	
					Page 23		\headheigh	t 12pτ	*	
							\headse	p 25 pt		
		654	\coordir	nate (B) at (\	trystockwidth@	cx -\trytrime			Y	
		655	\coordir	nate (C) at (0	.5\trystockwid	•				
		656		lim, <->] (A						
		657 658			<pre>0.5\baselinesk rt@cx{\trvpape</pre>	(ip)] erwidth@cx} \$(\	W n)\$}:}			
		659	(bebe.	/14(1) (30	I teck (tel) pap.	I WIGGINGON, 4	4141			
		660		er width dimen						
		661		erwidthevendi	-	· · · · · · · · · · · · · · · · · · ·				
		662 663			+\trytrimedge@ trystockwidth@					
		664			.5\trystockwidth					
		665	\draw[di	.m, <->] (A)	(B);					
		666			0.5\baselinesk					
		667		vidth = \conve	rt@cx{\trypape	erwidth@cx} \$(\	W_p)\$};			
		668	}							
		1	1.3.1 Draw s	tock naner						
		Fi	irst we draw the		_					
		669		=thegray] (0,	_					
		670 671	+	-+(\trystoскwı	dth@cx,\trysto	ckheight@cx;;				
		672	% draw the p	paper if trims	are defined a	and no book si:	ze given			
		673				ne dashed blue	-			
		674	\ifoddpage						\textheight	
		675				tockheight@cx			598 pt	
		676 677				\lefttrim-\try (+\bottomtrim)	, ,			
		678		wpaperwidthdi		.+\DU.C.O,				
		679	\else							
		680				-	rystockheight@d	cx-∖tr	rimtop@cx)	
		681				\lefttrim-\try	-			
		682 683		rystockheight@ /paperwidtheve		<+\bottomtrim)	ř			
		684	\fi	paper with the colors	IIGIIII					
		685								
		1	1.3.2 Draw g	rid						
			nlike the grid on		ve provide a con	ditional to switc	h it off if nec-			
		es	ssary. It set to tru	ie by default.						
		686	\pgfmathsetm	nacro{\gridx}{	10}					
		687	\iftrygrid							
		688	\ifoddpage		: !!! o-:: \ l od	The Control of the Co				
		689				ttrim)/\gridx c,color=thegre				
		690 691				omtrim,xshift=				
		692					aperheight@cx)	,		
		693	\else							
		694			rwidth@cx)/\gr					
		695	уѕ с	ep=\trypaperne	ight@cx/\griux	c,color=thegre	en,		<u> </u>	
							\footski	p 30 pt		
								+	<u> </u>	
							\	margin	parsep 11pt	
oddsi	demargir	n 28 pt		\te	extwidth $380\mathrm{pt}$				\marginparwidth	101 pt
4	—	-			·			→	▼	
driver margin	1 in									
4										

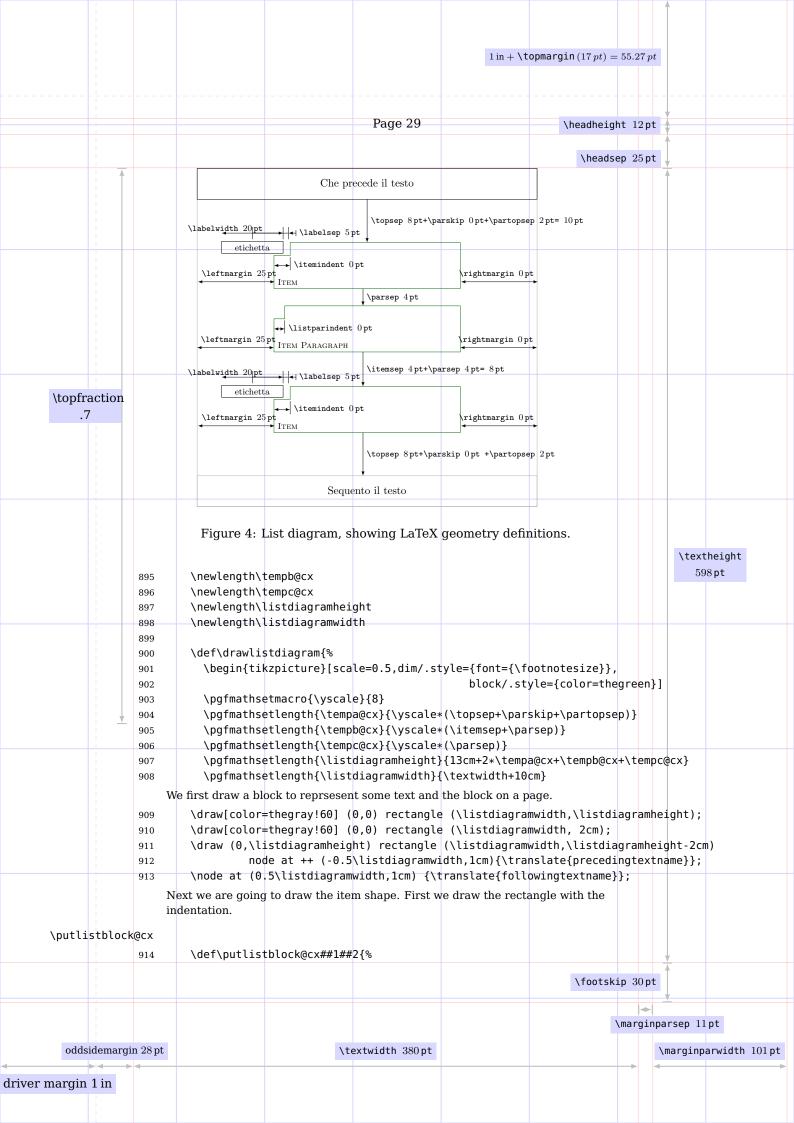
	I I								†	
						$1 \text{ in} + \text$	$opmargin\left(17pt ight) =$	55.27 pt		
						± , ,	οριιατ 92 (2)	00.2. F		
					Dogo 2/		ما مرا م ما ما ما ما ما	10	<u> </u>	!
					Page 24		\headheigh	t 12pi	*	
							\headse	n 25 pt] !
	1 1	696	line	width=0.4pt,	vshift=\bottom	trim,xshift=\	trytrimedge@cx]		<u>*</u>	+
		697	(0,0)		ypaperwidth@cx			'		
		698	\fi							
	,	699	\fi							ļ
	1 1 1	1	1.3.3 Drawing	g the binding	correction					+
			he binding correct			It will appear o	n the annosite			
			ite in the even pag		the stockholym.	It will appear o	II tile opposite			
		700	\ifoddpage							
		700	, ,	trystockheigh [.]	t@cx + 3mm)	++ (0,1cm)				
		702	++ ('	\lefttrim,-1c	m) ++(0,1cm		fttrim,-0.5cm)	[->,>=	latex]	
		703		+(0.5cm+\left						!
		704		trystockheigh		1				
		705 706			+ (\lefttrim,0 =latex] ++(-					
		707		[right] at ++		Tem, cem,				
		708	{\tra	-		me}\ \convert	@cx{\lefttrim}	\$(\de	lta_b)\$ };	
		709	\fi				Ī I			
		710	d d+b	·· ···						
		711 712		dimension li \baselineskip						#
		712 713		(BD) at (0,\to						
1		714			oc,, ockwidth,-5\ba	selineskip);				
1		715	\draw[dim,	<->] (BD)	(BD2);				\textheight	
1		716	\draw (BD) +-	+ (0.5\stockw	idth,0)				598 pt	
1		717	-	ift=0.5\basel:		ነለ፤ = ነሐነ .			000 F	
1		718 719	{STOCKWIU	th=\convertec	x{\stockwidth}	\$(W_S)\$} ;				
+		719	% top dimens:	ion at left						_
		721	· ·		,∖trystockheig	ht@cx-\trimto	p@cx);			
1		722	\coordinate	(H2) at (-5mm	,					
1		723		-	n-\trimtop@cx-	\trytopmargin	@cx-			
		724 725		height@cx-\tr _! <->] (H1)						
1		725 726			(H2); cm, text cente	rad dim text]	a+			
1		727			cm, text cente cx-0.5*\margin		at			
		728			e\margintop}\\	•				+
1		729								
		730		ension at lef						
1		731 732			,0+∖bottomtrim ,\trymarginbot					
1		732 733		(H4) at (-5mm <->] (H3)		Tulligex),				
1		734			cm,text ragged	left]				
1	1	735	at (-5mm,	0.5∗\trymargiı	nbottom@cx)					
		736			\the\trymargi	nbottom@cx}\\				+
		737 738	\$(h_{b})	\$};						
1		738 739	% textheight	at left						
1		740			rymarginbottom	@cx)				
		741		\trytextheigh	-					
	1						\ C+-1.d	20+	<u> </u>	
							\footski	p 30 pt		4
							\	margin	parsep 11pt	
oddsi	demargin	28 pt		\te	extwidth 380pt				\marginparwidth 101	pt
←	-							→		→
driver margin 1	l in									

1					
1				$1\mathrm{in} + \texttt{\topmargin}(17pt) =$	= 55.27 pt
1					
	+		Page 25	\headheigh	ht 12 pt
!				Vhoodo	The state of the s
	742	\node[left,text width=1.6	Com toxt centered		ep 25 pt
	742 743	at (-5mm,∖trymarginbot	ttom@cx+0.5\tryte	extheight@cx)	
	744	{\CS{textheight} \conv		-	
!	745 746	'` ''			
1					
		11.3.4 Book height			
		Book sizes are specified by the s			
		there is no need to worry about to vide these for consistency and for		_	
		bureau for printing.			
	747	- 1			
1	748 749				
!	749 750			ed,dim text] @cx{\trypaperheight@cx}}	4-
	751				
		11.25 Drow the edge trim			
!		11.3.5 Draw the edge trim		2.22	
	-	The paper is always assumed to b We first draw the edge trim and it	_	ottom and the edge margin.	
,	752				
	752	\ifoddpage			
	754	\coordinate (D) at (\t	-	The state of the s	\textheight
	755 756		.10\trytextheight(trystockwidth@cx.	<pre>:@cx); 0.10\trytextheight@cx);</pre>	598 pt
i	756	\draw [dim,->] (D)	- ++(3\trytrimedge	ge@cx,0);	
	758	\draw [dim, <-] (E) -	++(3\trytrimed	lge@cx,0)	
	759 760		-	m,dim textj	
	761	\convert@cx{\the\try			
	762	1			
	763 764		\trvstockheight	:@cx+ 5mm);	
	765	\coordinate (E1) at ++	(\trytrimedge@cx	<pre>x,\stockheight+\trimtop@cx;</pre>	
	766		∂mm) ++(\trytrim	nedge@cx,0) ++(0,-10mm)	;
	767 768				
	1				
		11.3.6 The top trim			
i		The top trim is drawn next. As it	-		
		label and the dimension lines. We	will only show it if	it has a value.	
	769 770				
	770 771		a\+rvstockwidth@c	cx,\trystockheight@cx-\tri	mtonacx-8mm):
'	771	\coordinate (G) at (0.9	9\trystockwidth@c	cx,\trystockheight@cx-\tri	
	773			x,\trystockheight@cx);	
	774 775			<-I.>=latex]	
!	I I			\footski	in 30pt
1	1				+
				\	\marginparsep 11pt
oddsid	demargin 28 p	ρt \t	textwidth $380\mathrm{pt}$		\marginparwidth 101pt
1 margin 1	4				→
driver margin 1	. in				

									1	
						$1 in + \t$	$opmargin\left(17pt ight)$ =	= 55.27 p	ot	
					Page 26		\headheig	ht 12 p	t	
							\heads	ep 25 p	†	
		776	no	ode [text widt	h=2cm, right]	at ++ (0,3pt)				
		777	\\		\the\trimtop@d					
		778	%\fi							
		1	1.3.7 Driver	offsets						
		N	ext we draw the	driver offsets. T	he lines are dra	wn at the left sid	e of the paper			
		b	oth for even and	for odd paper. (Of course they ar	e meaningless if	the printer is			
		_	oing to print the		_					
		779 780			,\trystockheio ve] (1in,0)					
		781	\draw[das	shed,color=oli	ve] (0in,\trys	tockheight@cx	-lin) ++ (\1	-		
		782			3cm) (1in,0.			im tex	t] {\tran	slate{oneinch
		o:	Draw the inner ther oddsidemar	_	se innermargin v margin	which has alread	ly been set to			
		783	ther oddsidemai	gill of evenside.	margin					
		784		t = 1in + inne	_					
		785	-		cx{\dimexpr(1i 9cm) (1in+\	_				
		786 787			t width=lin,di	-				
	1	788	{\$(w_i)\$_\	convert@cx{\t	ryleftmargin@d	x}\\inner mar	gin};			
		789 790	\draw (1in.	.1.2cm)[<->]	++(\innern	nargin.0) node	[riaht.dim tex	ct1		
		791			nvert@cx{\the\	-	_			
		792								height 8pt
		793 794	% add topn	margin dimensi	on				39	ο μι
		795		_						
		796 797			imexpr(lin-\tr stockwidth@cx+					
		798	\draw [dim,	<->] (S1)		-	1019.100% (111		,	
		799			c-\trimtop@cx) xt, text width					
		800 801		-	c) {\convert@d		\$(\delta_t)\$			
		802	\\ \textback	kslash topmarg	in \convert@c>	⟨{\trytopmargi	n@cx}};			
		1	1.3.8 Draw t	he minning h	ead					
						n of the man				
		803	he running head \nafmathsetl		ring from the to imb}{\trystock					
		804	(PSTIMETIBELI		top@cx-lin-\tr	-	}			
		805	\ d = 0 . [+ 0 + 1	10ckl (\+~TN	NED / 0+c===4:-	ah \				
		806 807		-	<pre>NER, \@tempdim rytextwidth@c></pre>		ght@cx);			
		808		-	-	•				
		809 810		neight dimensi - .>=stealthl	on (\trystockwidt	h@cx+3ex \@to	empdimb)			
		811		++(0,-\tryhead	height@cx) noc					
		812		2ex,0.3\tryhea S{headheight}	dheight@cx) \convert@cx{\t	he\tryboadhoi	nhtacvl e/h "	1 hl\#	1.	
		813 814	{ \CS	tileaulietAllf}	(Convert@CX{\1	ine (ci yileadhe1)	yııt@CX} ⊅(∏_{[1,113)\$, [*]	
							\footsk	ip 30 p	t	
									<u>+</u>	
								\margir	nparsep 11	pt
odds	sidemargii	n 28 pt		\†	extwidth $380\mathrm{pt}$				\marginpa	arwidth 101pt
4	-	4		(0)	300 p C				▼	→
driver margin	1 in									

```
1 \text{ in} + \text{\topmargin} (17 pt) = 55.27 pt
                                                             Page 27
                                                                                             \headheight 12\,pt
                                                                                                \headsep 25\,\mathrm{pt}
                      815
                                    add headsep dimension
                               \draw [dim, |-,] (\trystockwidth@cx+3ex,
                      816
                      817
                                     \@tempdimb-\tryheadheight@cx-\tryheadsep@cx)
                      818
                                       -- ++(0,\tryheadsep@cx) node [right, dim text] at
                      819
                                       ++(2ex,-0.8\tryheadsep@cx){\CS{headsep}
                      820
                                       \convert@cx{\the\tryheadsep@cx} $(h_{h,s})$};
                           11.3.9 Type area
                           Next we add the type area and its dimension.
                               \coordinate (J) at (\tryINNER,
                      821
                                    \@tempdimb-\tryheadsep@cx-\tryheadheight@cx);
                      822
                               \draw[textblock] (J) rectangle ++ (\trytextwidth@cx, \trytextheight@cx);
                      823
                               \draw[dim,<->|,dim text] (\tryINNER,0.75\trytextheight@cx)
                                 -- ++(\trytextwidth@cx, 0)
                      825
                                 node at ++(-0.5\trytextwidth@cx,0.8\baselineskip){\labelit@cx{\textwidth}};
                      826
                      827
                                   add textheight dimension
                      828
                               \draw [dim,<->] (\trystockwidth@cx+3ex,
                      829
                                       \@tempdimb-\tryheadsep@cx-\tryheadheight@cx) --
                      830
                      831
                                       ++(0,-\trytextheight@cx) node [right, dim text, text width=2.5cm]
                      832
                                       at ++(2ex,0.5\trytextheight@cx)
                      833
                                       {\CS{textheight}\\ \convert@cx{\the\trytextheight@cx}$(h_x)$};
                           11.3.10 Footer
                                                                                                                \textheight
                                                                                                                   598\,\mathrm{pt}
                           Add the footer and its dimension.
                               \coordinate (I) at (\tryINNER,
                      834
                                          \@tempdimb-\tryheadsep@cx-
                      835
                      836
                                          \tryheadheight@cx-\trytextheight@cx-\tryfootskip@cx);
                      837
                               \draw[textblock] (I) rectangle ++ (\trytextwidth@cx,\tryheadheight@cx);
                               \draw [dim,|<->|,>=stealth] (\trystockwidth@cx+3ex,\@tempdimb-\tryheadsep@cx-
                                   \tryheadheight@cx-\trytextheight@cx) --
                      839
                                   ++(0,-\tryfootskip@cx) node [right, dim text] at
                      840
                                   ++(2ex,0.5\tryfootskip@cx){%
                      841
                                   \labelit@cx{\tryfootskip@cx}$(h_f)$};
                      842
                      843
                      844
                      845
                               % marginpar
                               \def\leftmarginpar{%
                      846
                                  \draw [textblock] (\tryINNER+\trytextwidth@cx+\trymarginparsep@cx,
                      847
                                         \@tempdimb-\tryheadsep@cx-\tryheadheight@cx) rectangle ++(\trymarginparwidth@cx,-\tr
                      848
                      849
                                \draw [dim,|<->|] (\tryINNER+\trytextwidth@cx+\trymarginparsep@cx
                      850
                                  +\trymarginparwidth@cx,0.75\trytextheight@cx)
                                  -- ++ (-\trymarginparwidth@cx,0) node at
                      851
                                  ++(0.5\trymarginparwidth@cx,0.7\baselineskip)
                      852
                                  {marginparwidth} node at ++(0.5\trymarginparwidth@cx,-\baselineskip)
                      853
                                  {\convert@cx{\the\trymarginparwidth@cx} $(w_{m,w})$};
                      854
                      855
                               % Draw the marginsep dimension above
                      856
                                \draw [dim, |-|] (\tryINNER+\trytextwidth@cx,0.85\trytextheight@cx)
                      857
                                                                                               \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 31
                                                                                        \headheight 12pt
                                                                                           \headsep 25pt
                     966
                                     {\labelit@cx{\listparindent}};
                     967
                     968
                                \draw[<->,>=latex] (A) ++ (-0pt,8pt) -- ++(-5cm,0pt)
                                      node at ++(0,0)[above right] {\labelit@cx{\leftmargin}};
                                \draw[<->,>=latex] (A) ++ (Opt+\textwidth,8pt) -- ++(5cm,0pt)
                                     node at ++(0,0)[above left] { \labelit@cx{\rightmargin}};
                                \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.
                             % Since values for list parameters are small, we scale everything up.
                     979
                                    |\tempa@cx = scaled topsep + parskskip + partopsep|
                     981
                                    |\tempb@cx = scaled itemsep + parsep|
                     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]
                     987
                                          {\labelit@cx{\topsep}+\labelit@cx{\partopsep}};
                     988
                     989
                             % second block
                                                                                                          \textheight
                             \putlistparblock@cx{5cm}{2cm+\tempa@cx+3cm+\tempb@cx}
                             992
                                   node at ++(0,0.5\tempb@cx) [right]
                     993
                                   {\labelit@cx{\itemsep}+\labelit@cx{\parsep}=
                     994
                                       \pgfmathparse{\itemsep+\parsep}\convert@cx{\pgfmathresult}};
                     995
                     996
                     997
                             %% third block
                             \putlistblock@cx{5cm}{2cm+\tempa@cx+6cm+\tempb@cx +\tempc@cx}
                     998
                             \draw [->,>=latex] (0.5\paperwidth,2cm+\tempa@cx+6cm+\tempb@cx +\tempc@cx|)
                     999
                    1000
                                    --++(0,-\tempc@cx)
                                   node at ++(0,0.5\tempc@cx) [right] {\labelit@cx{\parsep}};
                    1001
                    1002
                             % add finally the top arrow
                    1003
                             \draw [->,>=latex] (0.5\listdiagramwidth, \listdiagramheight-2cm)--++(0,-\tempa@cx)
                    1004
                                  node at ++(0,0.5\tempa@cx) [right]
                    1005
                    1006
                             {\labelit@cx{\topsep}+\labelit@cx{\parskip}+\labelit@cx{\partopsep}=
                    1007
                                  \pgfmathparse{\topsep+\parskip+\partopsep}\convert@cx{\pgfmathresult}};
                    1008
                    1009
                    1010
                             \end{tikzpicture}
                    1011
                          12.1 Tabulating List values
       \printlistvalues
                         The command \printlistvalues produces a short table showing the list param-
                          eters and their values (see Table 1 for an example).
                                                                                         \footskip 30pt
                                                                                                \marginparsep 11pt
         oddsidemargin 28 pt
                                                    \textwidth 380 pt
                                                                                                       \mbox{\mbox{\it marginparwidth}}\ 101\,\mbox{\it pt}
driver margin 1 in
```

Parameter Value Parameter Value	
Parameter Value leftmargin 1.83 pc rightmargin 1.83 pc itemindent 0 pc labelwidth 1.42 pc labelsep 0.42 pc	
Parameter Value leftmargin 1.83 pc rightmargin 1.83 pc itemindent 0 pc labelwidth 1.42 pc labelsep 0.42 pc	
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$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
\topfraction .7 Table 1. Tabulation of LaTaV list values, for the quotation environment	
Table 1: Tabulation of LaTeX list values, for the quotation environment. 1012 \def\printlistvalues{% 1013 \begin{tabular}{lr} 1014 \toprule	
1015 Parameter & Value\\	
<pre>1016 \midrule 1017 leftmargin & \convert@cx{\the\leftmargin}\\ 1018 rightmargin & \convert@cx{\the\rightmargin}\\ 1019 itemindent & \convert@cx{\itemindent}\\ 49.83 pc</pre>	t
1019 itemindent & \convert@cx{\itemindent}\\ 1020 labelwidth & \convert@cx{\labelwidth}\\ 1021 labelsep & \convert@cx{\labelsep}\\ 1022 listparindent& \convert@cx{\listparindent}\\	
1023	
13 Draw a Font box	
We provide a command that can draw a box and font dimensions. We will use TikZ for drafting and styling. We also provide the macro \printfontparams to print font parameters. This will produce a table as shown in Table 2 and Table 3. To draw a fontbox, we use	
x-height=1.39 pc depth=0.43 pc depth=0.43 pc	
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1054	fontdimen6 (quad widt				7	1
1055 1056	<pre>fontdimen7 (extra spa \bottomrule</pre>	ace) & \the\fon	tdimen7\font\)			
1056 1057	\end{tabular}					
1058	}					
	The macro \drawfontbox $\{\langle text \rangle\}$	-				
	mensions. A very similar macro is			_		
	with TikZ it can be drawn more ea macros.	isily than the tens	3 of lines of puc	in the original		
	We define some new length to		values for the fo	ontbox dimen-		
l i	sions, although PGF provides its o	own methods.				
1059	\newlength\xheight@cx					
1060 1061	<pre>\newlength\xwidth@cx \newlength\xdepth@cx</pre>					
1061	\newlength\xtotal@cx					
1063	\newsavebox{\fontbox}					
	We set a number of keys to ena	able styling the b	ox.			
1064	fontbox font/.stor	re in=\fontboxf	ont@cx,			
1065	fontbox line color	r/.store in=\fo	ontboxlinecolor			
1066	fontbox label font	:/.store in=\to	ntboxlabelfon	t@cx}		
1067 1068	% Set reasonable defaul	1+c				
1068	% Set reasonable deraut	. LS				
1070	fontbox font={\its					\textheight
1071	fontbox line color	·	·tocizoll			49.83 pc
1072	fontbox label font			1.6 :-1:-0		
	Define a macro to draw a tight text and hence we use \tikz to do					
	See (How to align a series of tikz	-	-	ne-(//.bas_,		
	See also how to determine the	e vector between t		s.		
1073	\newcommand\drawfontframe	-	1. 7.5 ±2.0v			
1074 1075	<pre>\tikz[baseline=(X.base) \node[rectangle,draw,</pre>					
1075 1076	\node[rectangle,draw, color=\fontboxl					
1077	\draw[\fontboxlinecol	lor@cx, line wi	dth=0.4pt] (X.			
1078	circle(0.4pt)[fill=					
1079 1080	}					
1080	% \def\drawfontbox#1{%					
1082	{\itshape\fontboxfont@					
1083	\savebox{\fontbox}{#1}		1			
1084 1085	<pre>\xhe \pgfmathsetlength{\xwi</pre>	_				
1085	\xwl		-			
1087	\xto	otal@cx}{\xdept	h@cx+\xheight@			
1088	\begin{tikzpicture}[sca				@cx}}]	
1089 1090	<pre>\node[rectangle,draw, \draw[red, line width</pre>				odl	(X.base east);
1090 1091	\draw[red, tine width \draw[<-> ,>=latex]				euj	(A.Dase euse,,
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			We next draw t	he x-height of th	ne text					
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		1100	tikzp	nicture}}						
		1110	}							
			13.1 Sundr	\mathbf{v}						
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	\linef		fied count is rea			-			49.	.83 pc
			numbered line, bu		_					
			crements the line	counter. These	commands are t	ypically used to	construct test			
		C	locuments. Recause the co	unter is alobally	advanced and r	never reset, succ	essive calle to			
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		1181	\lipsum					
		1182	\clearpage					
		1183	\onecolumn					
		1184 1185	% draws the spread					
		1185 1186	\drawcanons					
		1187	,					
		1188	\printreadability					
		1189	<pre>\pagestyle{plain}</pre>					
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		1197	\printlistvalues				\texthei	ght
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		1199	%					
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		1203	%%					
		1204	%%					
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		1210	\usepackage[german]{x	layouts}				
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	14.1 List standalone diagram M	The state of the s
	<*test-03>	
1270	%% This file is generated automaticall	v hv xlavouts dtx
1271	% It produces a standalone diagram for	
1272	%%	
1273 1274	<pre>\documentclass{standalone} \usepackage[italian]{babel}</pre>	
1275	\usepackage[italian]{xlayouts}	
1276	\begin{document}	
1277 1278	\drawlistdiagram \end{document}	
12/8		
	<*test-04>	
1279	%% This file is generated automaticall	y by xlayouts.dtx.
1280	%% It produces a standalone diagram fo	r lists.
1281 1282	%% \documentclass{standalone}	
1283	\usepackage[italian]{babel}	
1284	<pre>\usepackage[italian]{xlayouts}</pre>	
1285	\begin{document} \drawcanons	
1286 1287	\end{document}	
	<*test-05>	
1288	% This file is generated automaticall	y by xlayouts.dtx. \textheight
1289	% It produces a two page spread and s	shows the dimensions. 49.83 pc
1290 1291	%% \documentclass[twoside]{book}	
1292	\usepackage[left=80pt,right=80pt,top=0	0.75in]{geometry}
1293	\usepackage[final]{graphicx}	
1294 1295	<pre>\usepackage{lipsum} \usepackage{xlayouts}</pre>	
1296	\makeatletter	
1297	\providecommand{\cleartoevenpage}[1][\	@empty]{%
1298 1299	<pre>\clearpage% \ifodd\c@page\null#1\clearpage\fi}</pre>	
1300	\makeatother	
1301	\pagestyle{grid}	
1302 1303	<pre>\begin{document} \mainmatter</pre>	
1303	\null\newpage	
1305	\pgfpagesuselayout{2 on 1}[a3paper,lan	ndscape,border shrink=0mm]
1306	%% first page	
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1310	\vbox to 120pt{\lipsum[1]}%	tl(china OEl)
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1313	%secondpage	
1314	{\parindent0pt	
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	1321	\end{document}					
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