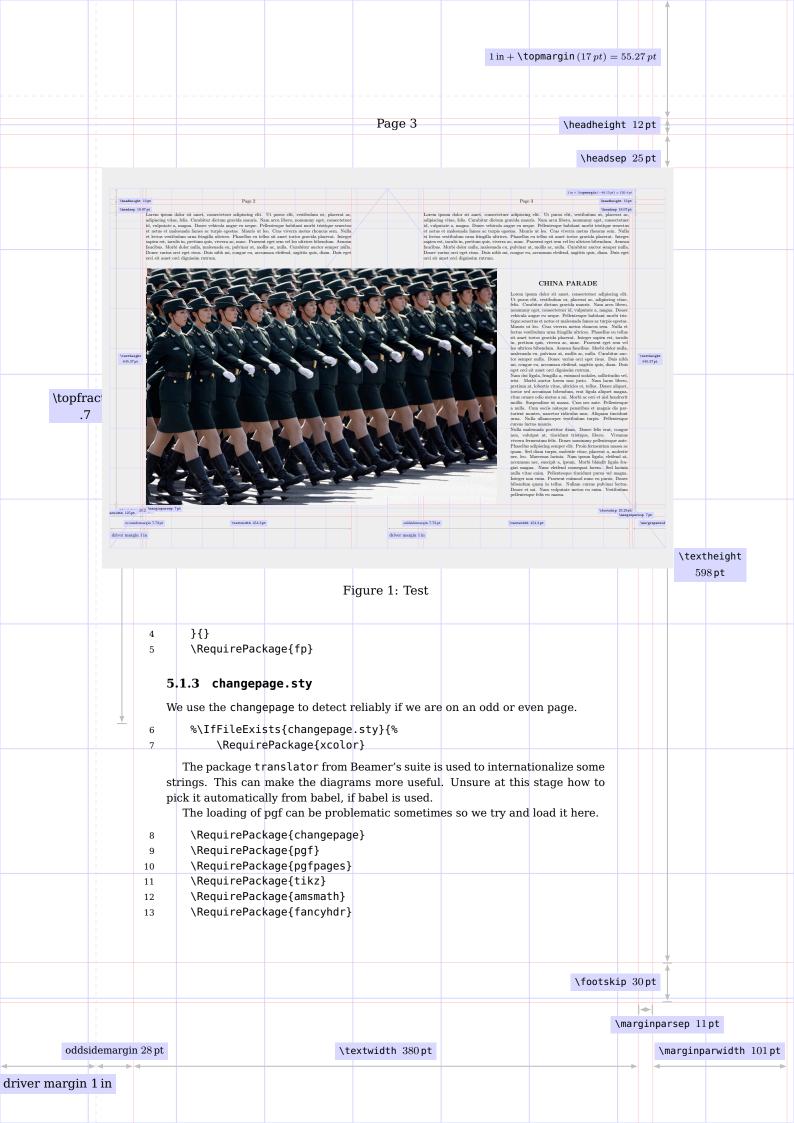
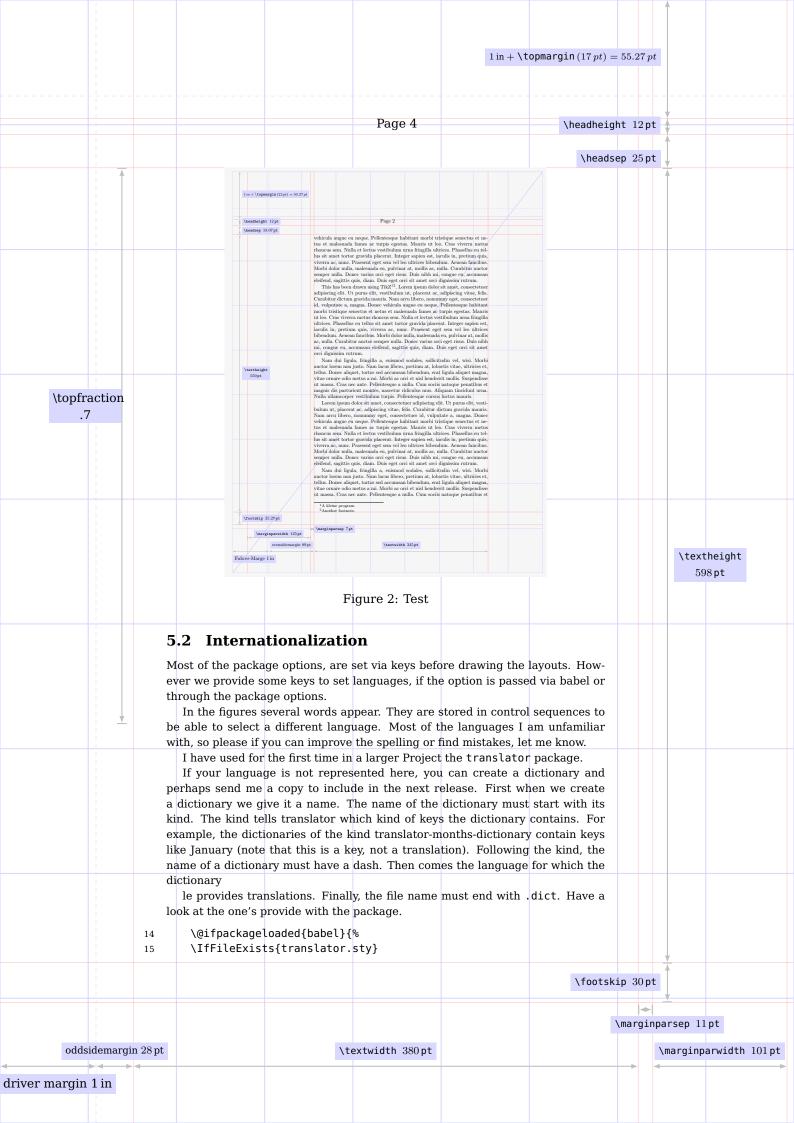
		1 in + \	$topmargin\left(17pt\right) = 55.27pt$	
		Page 1	\headheight 12pt	+
			\headsep 25pt	1
	The xlay	outs package. *		
		annis Lazarides slaz@gmail.com		
		012/05/26		
		Abstract		
	Current layout packages, such easily permit, the drawing of grids but does not make it clear what ea arose when I was developing differumber of utilities, one of which is styling options is provided via a keep control of the contro	s. The package geometry shows ach line represents. The need for event page layouts for chapter h s shown in this publication. An e	a page layout, or this package neads. It has a	
	Contents			
	1 How to use the package	2 7 Float parameters	14	\textheight 598pt
	2 Introduction3 Producing pages two-up	2 8 Spread2 9 Try Layouts	14 16	
	4 Page Layouts	2 10 Readability	16	
	5 Implementation 5.1 Dependencies 5.2 Internationalization 5.3 New lengths and switches 5.4 Colors 5.5 The driver margins	4 11.2Allowances for tr 5 11.3Drawing the Tria 5 12Lists		
	5.6 Crop marks	9 9 13 Draw a Font box 10 13.1 Sundry	32 35 Examples	
	5.11Text height	11 (MWE) 11 14.1 List standalone 11 MWE	38	
	5.14 Classic layout diagonal line 6 Running head definitions	es 13 15 Dictionaries 13 16 References	40	
*Th	nis file (xlayouts.dtx) has version numl	ber v1.0, last revised 2012/05/26.	\footskip 30pt	1
			\marginpa	arsep 11pt
oddsidemargin 28 p	t \te	extwidth 380 pt		marginparwidth 101pt
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						$1 \text{ in} + \text{\top}$	$pmargin\left(17pt ight) = 5$	55.27pt	
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	<u> </u>	<u>.</u>	1 How to	the the	aneslace		\headsep	ρ 25 pt	· ·
				use the p					
			The package is us ble:	sed like any othe	r LaTeX package	e, by including it in	ı the pream-		
			>		a ha laadad ugin	g the \cxset macro			
		ç		nded that options et{geometry uni		The (Cxset mao)	5.		
			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	mmands and		
			_			nension lines and v easier. It works in a			
			classes.						
		,				onventions of the ion of the IATEX ma			
			files [GMS94].	I OHUSES.	Iboinco.	011 01 011	uoro si		
			- 1		_				
			3 Produc	ing pages	s two-up				
						iment in a two page			\textheight
			- 0			Reader, but not so e macros that follow	•		598 pt
				-	00 22 1				
	+	1	4 Page La	ayouts					
		-	There are a numb	per of ways you	can include a pag	ge layout in your do	ocument.		
			1	01 01	-	o accy :			
		ŗ	5 Implem	nentation	L				
		r	The implementati	ion, uses PGF to	set the key value	e parameters and T	ГikZ to draw		
		t.	_	ry to avoid clashe		ckages by using th			
		1	or all internar ma	icros.					
		ŗ	5.1 Depend	dencies					
		ŗ	5.1.1 latex.l ⁻	.tx					
		ŗ	5.1.2 xcolor.	sty					
			-			package. The follo	_		
			nal macros are us \set@page@color	-	declaredcolor, y	\current@color,\	\set@color,		
		1		' sts{color.sty}{	{%				
		2	\Require	rePackage{color	r}%				
		3	\ (5 (1)0	eedscolor@cx\@e	mply		\footskip	20nt	
							\10025) 30 pc	-
							\r	marginpar	rsep 11pt
odds	sidemargin	n 28 pt		\t	textwidth $380\mathrm{pt}$			\m	narginparwidth 101pt
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4									





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						$1 \text{ in} + \t$	$opmargin\left(17pt\right) =$	55.27	pt	
					Page 5		\headheig	ht 12 p	ot .	
							\headse	an 25 r	\	
		16	{\Reau	ıirePackage{tr	anslator}\type	out{Translato			V	
		17	}%	_				,		
		18 19		:kage[french,d :s{translator.	utch,german,it	alian,english]{babel}			
		20			anslator}\type	out{Translato	r package load	ed.}}	{}}	
		21								
		22	\usedictiona		1					
		23 24			selanguage{ger select@languag		elanguage{engl	ish}}		
		25	\DeclareOpti	.on{italian}{\	select@languag	e{italian}\us	elanguage{ital			
		26 27			lect@language{ elect@language	-		}}		
		28	\ProcessOpti							
		_	0.37	.1						
				igths and s						
			e need a few nev	_	ranging the grid	and the layout.				
		29 30	\newlength\s \newlength\s							
		31	\newlength\t	-						
		32	\newlength\t	-						
		33 34	\newlength\i \newlength\F	-						
		35	\setlength\F	PH{∖paperheigh	t}					
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		38	\newlength\I		,					390 p C
		39	\newlength\T \newlength\a							
		40	\new teng tin \a	repirengen						
		5	.4 Colors							
		41	\definecolor	{theblue} {rg	b}{0.02,0.04,0	0.48}				
		42	\definecolor	{thered} {rg	b}{0.65,0.04,0	0.07}				
		43 44			b}{0.06,0.44,0 n}{rgb}{0.06,0					
		45	\definecolor	{thegrey} {gr	ay}{0.5}	,				
		46 47		r{thegray} {gr r{thedarkgray}						
		48	\definecolor	{theshade}{gr	ay}{0.94}					
		49	\definecolor	{theframe}{gr	ay}{0.75}					
		50 51		{thecream}{rg {spot}{rgb}{0	b}{1,0.95,0.4} ,0.2,0.6}					
		52	\definecolor	{boxframe}{gr	ay}{0.8}	003				
		53 54		_	}{0.95,0.95,0. gb}{0.118,0.54					
		55	\definecolor	{themacro}{rg	b}{0.784,0.06,	0.176}				
		56 57			}{rgb}{0.628,0 {rgb}{0.963,0.					
		58	\definecolor	{Hyperlink}{r	gb}{0.281,0.27					
		59	th	ehyperlink}{t	heblue}				+	
							\footsk:	ip 30 p	ot	
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	60	\newcommand*{\de	efaultcolor}{\color{black}		adsep 25pt
	61		ootcolor}{\color{spot}}	.,,,	
				oose to draw the diagonal lines	S
	62	for classical layout che \newif\if@diagon	cks we set it initially at fals	e.	
	63	\@diagonalfalse			
	64 65				
	66	\newif\ifdrawmar			
	67 68	\drawmarginparst	rue		
	69				
\printu	nitsof@cx		-	ackage, it sets the units to be	
	70	<pre>printed in the diagrams \pri</pre>	s. .ntinunitsof@cx}[1]{%		
	71	\def\l@yunitpe	erpt{1.0}\def\l@yunits{p	ot}%	
	72 73	\def\l@yta{#1} \ifx \l@yta\l@	·\def\l@ytb{pt}% Byth		
	74	\def\l@yunit	perpt{1.0}\def\l@yunits	s{pt}%	
	75 76	\else \def\l@ytb{p	nc}%		
	77	\ifx \l@yta\	(l@ytb		
	78 79	\def\l@yur \else	nitperpt{0.083333}\def\	.@yunits{pc}%	
	80	\def\l@ytb	o{in}%		\textheight
	81 82	\ifx \l@yt	:a\l@ytb /unitperpt{0.013837}\de	Nlavunitc(in)	598 pt
	83	\else	runit thei bit (0.01303) } (de	(teyunites(in))	
	84 85	\def\l@y	rtb{mm}% Byta\l@ytb		
	86		@yunitperpt{0.351459}\	def\l@yunits{mm}%	
	87 88	\else \def\l	.@ytb{cm}%		
	89		l@yta\l@ytb		
	90		\l@yunitperpt{0.0351459	}\def\l@yunits{cm}%	
	91 92		-\l@ytb{bp}%		
	93		<pre>(\l@yta\l@ytb lef\l@yunitperpt{0 99626</pre>	M1\def\1@vuni+c(hn)0.	
	94 95	\els	def\l@yunitperpt{0.99626 se	o+, vaer (r@yuniirs{DD}%	
	96		lef\l@ytb{dd}% .fx \l@yta\l@ytb		
	97 98			 5718}\def\l@yunits{dd}%	
	99		else \def\l@ytb{cc}%		
	100 101		\ifx \l@yta\l@ytb		
	102	%	\def\l@yunitperpt{0.0 \else)778809}\def\l@yunits{cc} ^s	8
	103 104	%	\def\l@ytb{PT}%		
	105 106	%	\ifx \l@yta\l@ytb	[1 A]\def\l@vunitc(DT)& ~	ives problems with pgfmathpars
	100	Ü	, ac i , tey unit the i b t		skip 30 pt
				(1001	
					\marginparsep 11pt
oddsid	lemargin 28 pt		\textwidth 380pt		\marginparwidth 101pt
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					Page 7		\headheig	nt 12pt	†
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							\heads	ep 25 pt	
		107 108	%	\fi \fi					1
		100		\fi					
		110		\fi					
		111 112	\fi	i					
		113	\fi						
		114	\fi						
		115 116	\fi }						
							_		
\	convert		The macro \conve units to another. I		-	ert dimensions fi	rom one set of		
		117		.convert@cx[1]					
		118	\pgfmathr	arse{#1*\l@yu	nitperpt}				
		119			g to 2 decimal				
		120 121	\pgrmatnp }	orintnumber{\p	gfmathresult}\	tninspace\t@y	units		
,	1						1		
\ca	lcshift	-	Helper command grid properly.	to reposition the	grid, note it nee	ds to run twice t	to position the		
		122		calcshift@cx{	%				
		123			gfpictureid}\@				
		124 125		cess{\pgfpoint :h\shiftx@cx\p	origin\@basepo af@v	int}%			
		126		:h\shifty@cx\p					\textheight
		\CS							598 pt
		127	\newcommand\	.CS[1]{\footno	tesize #1}				
,	1 1 1 1 1 1					10 111	1		
\	labelit		The macro \label this is expected to				on dimensions		
		128	_		{\ttfamily		onvert@cx{#1}}		
			We define its own	family of laye	ITODO A CHEC	v nebe			
	\cx		The macro \cxset			ū	_		
		129			ys{/xlayouts}}				
					ing keys. We us		enne the keys.		
		130 131	-		de=\printinuni olor/.store in		dcolor@cx.		
		132	ge	eometry lines	color/.store i	n=\geometryli	nescolor@cx,		
		133	_		color/.store i		belcolor@cx,		
		134 135	_		al/.is choice, al/true/.code=		e,		
		136	ge	eometry diagon	al/false/.code	=\@diagonalfa	lse,		
		137	_		al/none/.code=	-			
		138 139			al color/.stor row type/.stor	_			
		140	ge	eometry grid x	steps/.store i	n=\xsteps@cx,	, , ,		
		141	ge	eometry grid y	steps/.store i	n=\ysteps@cx,			†
							\footsk:	ip 30pt	
								+	Ψ
							,	marginpa	arsep 11pt
odds	idemargi	n 28 pt		\te	extwidth $380\mathrm{pt}$			\	marginparwidth 101pt
drivon marri	1 in	4						→	-
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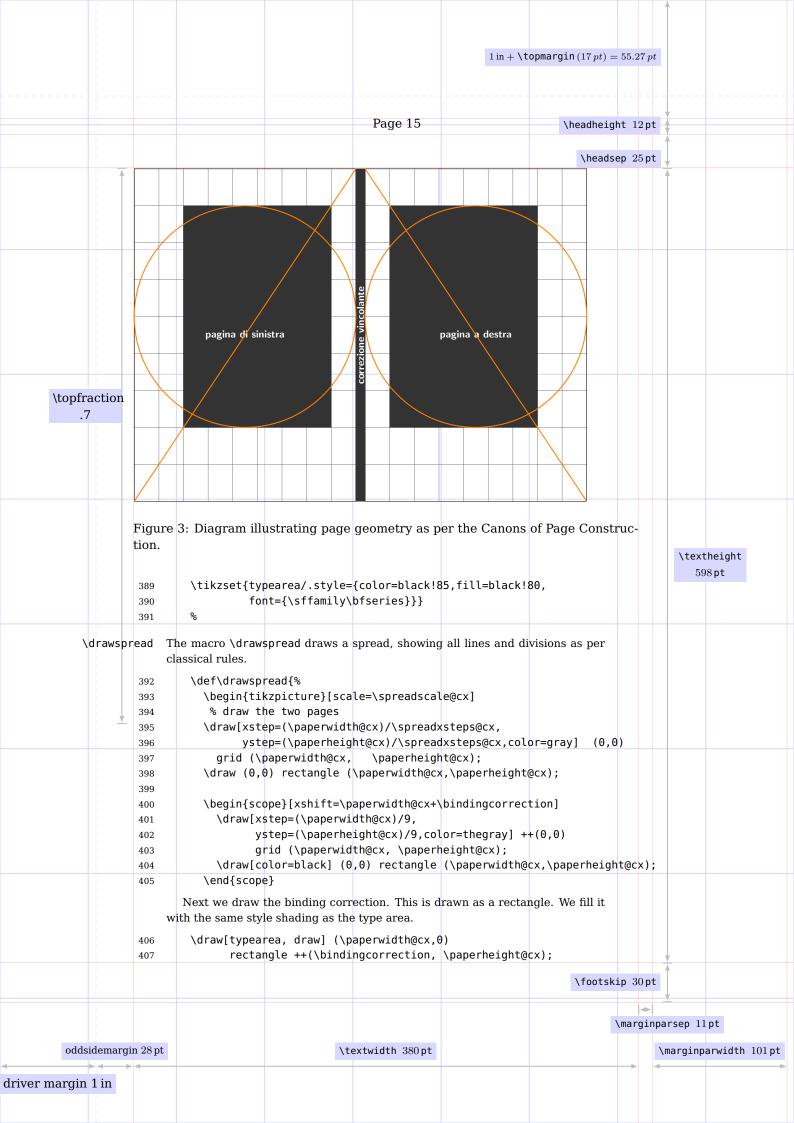
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						1 in + \ t	$opmargin\left(17pt ight) =$	55.27 pt	
									·
					Page 9		\headheigh	nt 12 pt	*
							\headse	ep 25 pt	<u> </u>
		182 183	\calcshift@ scop		hiftx@cx, yshi	.ft=-\shifty@c	x1		
		†	We will first draw t this using the gri coordinates. This	the grid. This is d shape. All \dr	one of the main f aw commands a	eatures of the pare	ackage. We do ner than using		
			easier the steps in						
		184 185	% \draw [gri	.d,xstep=\PW/\	xsteps@cx,yste	p=\PH/\ysteps	@cx]		
		186			.south west) g				
			5.5 The driv	ver margin	S				
			Printer's cannot al inch margin for th		-		allowed a one		
	\ hoff		_		_		hoffcot and		
		set	Adjustment to the \voffset. All maj the crop may use	jor classes set t	hese offsets at z	zero. Some pacl	kages such as		
		187 188		ver] (1in,0) - ver] (0,\PH-1i	- (1in,\PH); n) ++(\PW,0)	;			
			5.6 Crop m	arks					
			If the option crop the four corners o	-	ge will print cro	p marks. These	are printed at		\textheight
		189		width=0.4pt,	-	F \ (2 F -	0)		598 pt
		190 191	% ++	-	0mm) circle(2. 7.5mm,-2.5mm)-		, 0)		
		192 193		e width=0.4pt,					
		194 195	i i		30mm+2.5mm) e(2.5mm) ++(-2		(5mm,0);		
		196 197							
		137							
			5.7 Vertical						
			For no particular co-ordinates to rec			ai lines. We also	o define some		
		198			(\INNER,\P				
		199 200	\draw [line \ifoddpage	es] (\INNER+\t	extwidth,0)	++(0,\PH);			
		201 202			textwidth+\mar rsep+\textwidt				
		203	\draw[lin	es] (\INNER+\	textwidth+\mar	ginparsep+\ma	- ')	
		204 205	(\I \else	.NNEK+\marginp	arsep+\marginp	arwidth+\text	width,\PH);		
		206 207			\marginparsep, \marginparsep-			\PH):	
		208	\fi		a. ginpar sep	ar griipai wru	,0,	,,	
							\footsk:	ip 30pt	\
							N	\ → \marginpa	arsep 11pt
oddsi	idemargir	n 28 pt		\te	extwidth $380\mathrm{pt}$				marginparwidth 101pt
driver margin	1 in	-						→	-
221.01 margin									

```
1 \text{ in} + \text{\topmargin} (17 pt) = 55.27 pt
                                                              Page 11
                                                                                               \headheight 12pt
                                                                                                 \headsep 25pt
                                    {\scriptsize$1\thinspace \text{in}+\texttt{\footnotesize\textbackslash topmargin}\,
                      243
                      244
                                    (\convert@cx{\topmargin})= \convert@cx{\@tempdima}$);
                      245
                               \else
                      246
                                  \draw [dim, <->](\tol,\PH-lin-\topmargin)-- ++(0,-\headheight)
                                    node[right, dim label] at ++(lex,lin-0.5\topmargin)
                      248
                                    {\scriptsize$1\thinspace \text{in}+\texttt{\footnotesize\textbackslash topmargin}
                                    \, (\convert@cx{\topmargin})= \convert@cx{\@tempdima}$};
                      250
                               \fi
                           5.10 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
                      252
                                  \draw [dim,<->](\tol,\PH-lin-\topmargin)-- ++(0,-\headheight)
                                     node[above left, dim label] at ++(-lex,0){ \labelit@cx{\headheight}};
                      253
                      254
                                      draw headsep
                                  \draw [dim,<->](\tol,\PH-lin-\topmargin-\headheight)-- ++(0,-\headsep)
                      255
                      256
                                     node[above left,dim label] at ++(-lex,0){\labelit@cx{\headsep}};
                      257
                               \else
                                  \draw [dim,<->](\tol,\PH-lin-\topmargin)-- ++(0,-\headheight)
                      258
                                     node[above right,dim label] at ++(1ex,0){ \labelit@cx{\headheight}};
                      259
                               % draw headsep
                      260
                                  \draw [dim,<->](\tol,\PH-1in-\topmargin-\headheight)-- ++(0,-\headsep)
                      261
                                                                                                                  \textheight
                      262
                                     node[above right, dim label] at ++(lex,0){\labelit@cx{\headsep}};
                                                                                                                     598\,\mathrm{pt}
                               \fi
                           5.11 Text height
                           The \textheight is normally calculated to have an exact number of lines to avoid
                            warning messages from the TeX engine.
                               \draw [dim, |<->](\tol,\TOP)
                      264
                                   -- ++(0, \textheight) node[right,text width=1.7cm,text centered, dim label]
                      265
                                   at ++(1ex,0.5\textheight){\labelit@cx{\textheight}};
                      266
                           5.12 The footskip
                           The footskip is also a fixed number set by the classes. We position it left or right
                           to minimize clashes with other elements.
                      267
                               \ifoddpage
                                  \draw [dim, |<->|](\tol,\TOP-\textheight)
                      268
                                     -- ++(0,-\footskip)
                      269
                                     node[left, dim label] at ++(-lex,0.5\footskip){\labelit@cx{\footskip}};
                      270
                               \else
                      271
                                  \draw [dim, |<->|](\tol,\TOP-\textheight)
                      272
                                    -- ++(0,-\footskip)
                      273
                                    node[right, dim label] at ++(lex,0.5\footskip){\labelit@cx{\footskip}};
                      274
                      275
                               \fi
                      276
                                                                                                \footskip 30pt
                                                                                                       \marginparsep 11pt
                                                                                                               \mbox{\mbox{\it marginparwidth}}\ 101\,\mbox{\it pt}
          oddsidemargin 28\,\mathrm{pt}
                                                        \textwidth 380 pt
driver margin 1 in
```

```
1 \text{ in} + \text{\topmargin} (17 pt) = 55.27 pt
                                                             Page 12
                                                                                            \headheight 12pt
                                                                                               \headsep 25\,\mathrm{pt}
                      2.77
                               % Float parameters
                      278
                               % topfraction on left margin
                      279
                      280
                               \iftopfloat{%
                      281
                               \draw [dim, <->|] (\INNER-0.3cm, \TOP)-- ++(0, -\topfraction\textheight)
                                      node[left,text width=1.7cm,text centered, dim label]
                                      at ++ (0,0.4\textheight) {\textbackslash topfraction\\ \topfraction};
                               }{}
                      284
                               % bottom fraction
                      285
                               \ifbotfloat{%
                      286
                               \langle draw [dim, | <-> | ] (\langle INNER, \langle TOP \rangle) ++(0, -\langle textheight)
                      287
                                 -- ++(0,\bottomfraction\textheight)
                      288
                      289
                                 node[left, text width=1.2cm, dim label] at
                      290
                                 ++(-lex,-\bottomfraction*0.5\textheight){\textbackslash bottom\\fraction\\
                                 \bottomfraction};
                      291
                      292
                               }{}
                               % HORIZONTAL DIMENSIONS
                      293
                      294
                               \setlength\toly{1.5cm}
                               \draw[dim,<->](0,\toly)--++(1in,0)node [dim label] at ++(-0.4in,-1.5em)
                      295
                               {\translate{drivermarginname} 1\thinspace in};
                      296
                      297
                             If innermargin Opt we do not show the dimension line. Tufte-book has inner-
                           margin=0pt
                               \ifdim\innermargin=0pt
                      298
                                  \det[\dim,](0+1\inf, \det)-++(\liminf right)
                                                                                                               \textheight
                      299
                                       at ++(-0.5\innermargin, 0.5em)
                      300
                                                                                                                  598\,\mathrm{pt}
                                       {\innermarginname\convert@cx{\innermargin}};
                      301
                               \else
                      302
                      303
                                  304
                                       at ++(-0.5\innermargin, 0.5em)
                                       {\innermarginname\ \convert@cx{\innermargin}};
                      305
                               \fi
                      306
                      307
                      308
                               \draw[dim,<->](0+lin+\innermargin,\toly)--++(\textwidth,0)
                                 node[above, dim label] at ++(-0.5\textwidth,0.5em)
                      309
                                 {\labelit@cx{\textwidth}};
                      310
                           5.13 Marginpar dimensions
        \marginparwidth
                          There are three controlling lengths that position the marginpar block. The
           \marginparsep
                           marginparwidth is troublesome, in that some classes don't really worry about
          \marginparpush
                          marginpars and they left the dimensions unchanged. For Octavo for some pa-
                           pers they will overflow outside the paper boundaries.
                      311
                               \ifoddpage
                                 \draw[dim, |<->|](\INNER+\textwidth, \toly+1.5cm)--++(\marginparsep,0)
                      312
                      313
                                    node [below, dim label] at ++(\marginparsep,-0.5em)
                                    {\labelit@cx{\marginparsep}};
                      314
                                \draw[dim,<->](\INNER+\textwidth+\marginparsep, \toly)
                      316
                                    --++(\marginparwidth,0)
                                    node [above, dim label] at ++(-0.5\marginparwidth,0.5em)
                      317
                      318
                                    {\labelit@cx{\marginparwidth}};
                                                                                             \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	
						$1 \text{ in} + \t$	$opmargin\left(17pt ight) =$	55 27 nt	
						I III \c.	Opmary±n(±r pv)	55.21 pt	
				1'	l !				
					4.0				
					Page 13		\headheigh	t 12pt	
							\headse	25 nt	
		319	\else				(110000 -	D 20 pc	
		319		im. <->](\INN	NER, \toly+1.55	cm)++(-\mar	ninparsep,0)		
		321	node	[right, dim l	label] at ++(\m				
		322		belit@cx{\marg					
		323 324			n % try be a mo n+\innermargin-				
		324 325			n+\innermargin- ginparwidth,0)n			[[]	
		326	at ++(0,	,0em)		ode i	Z 2011 1		
		327		t@cx{\marginpa	rwidth}};				
		328	\else \draw[dim	1 - 11 /\ TNNF	· innarco	`innarw			
		329 330			ER-\marginparse D)node [above,			5cm)	
		330 331			n,0em){\labelit				
		332	\fi	ar gampa.	, oc , ((J. C)	W 1 C 1 C 1 C 1 C 1 C 1 C 1 C 1 C 1 C 1		
		333	\fi						
				<u> </u>					
			5.14 Classic	c layout dia	agonal lines	š			
			We do not attempt	t to draw out a	full classical layo	out, but only to c	lraw the diag-		
			onal lines to checl	k. This feature	can be switched				
			depends if we have	e an odd or ever	n page.				
		334	\if@diagonal						
		335	\ifoddpage			:= . 500			
		336 337	\draw [\ \else	diagonalcolor	r@cx,thick] (\P	W,0)(0,\PH);	;		
		337 338	· ·	 	or@cx,thick] (0	λ Α)(\PW,\PH	١.		\textheight
		339	\fi	\u1ayona ===	((((((((((((((((((((, U) = \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \), 		598 pt
		340	\fi						
		341	\end{scope}						
		342	tikzpic	:ture}}					
				!					
			6 Runnin	\mathbf{g} head de	efinitions				
			We define a page	layout arid to	position the gri	a We use the	cama for both		
			evenhead and odd		position and give	d. We use and	Sallie 101 Dom		
	\ps@g		In LaTeX a runnin pagestyle that can	-	- '	@ <name> macro.</name>	. We define a		
					the layout.				
		343	\def\ps@grid		1 -+\	2			
		344 345		ddfoot\@empty\ venhead{\agrid	\let\@evenfoot\ d}%	@empty			
		345		ddhead\@evenhe					
		347	\let\@mk	kboth\@gobblet	two				
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		7	Float pa	arameter	S				1	
\figur	reparamb	hnt T	he macros \figu	renarambot atto	emnt to draw di	mension lines in	figures. This			
(·±g~.	epar a		very much work							
		S	ome of the interna	als of the output	t routine.					
		351	\def\figurep							
		352	_		ember picture,					
		353			tempdima{-\tex] (0,0)++(0					
1		354 355		>=latex, <-> [right]] (0,0)++(0), - (@teilipu±ilia)				
		356		(1ex,-0.5\te	xtfloatsep)					
		357			convert@cx{\te	extfloatsep}};				
		358	tikzp	icture}%						
		359	\par							
		360	}							
		361 362	\def\figurep \par	aramstop{%						
		362	The state of the s	znicture}%[re	member picture	overlav]				
		364	-		mpdima{-\textf	-				
		365		-	(0,0)++(0,\					
		366		-	metrylabelcolo	r@cx]				
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		368			nvert@cx{\text	:floatsep}};				
		369 370	tikzp }	1Cture}%						
		3/0	,						\tex	theight
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		8	3 Spread							
		Т	he package provi	des a command	to draw a two r	enread as n	or the canons			
			f page construction		to uraw a two p	age spread as p	er the canons			
			This is aimed at		d alone diagram	s for inclusion in	to other pack-			
		a	ges or LaTeX note				-			
		371	\newlength\p	aperwidth@cx						
		372	- 1	aperheight@cx						
		373	\newlength\l	efttrim						
		374	\newlength\b							
		375	_	indingcorrect:						
		376	- 1	aperwidth@cx{						
		377 378	- 1	aperheight@cx indingcorrect:						
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		380	sprea	d xsteps/.sto	re in=\spread>	steps@cx,				
		381			e in=\spreadso					
		382	sprea	d width/.stor	e in=\spreadwi	.dth@cx}				
		383	%							
		384	%							
		385 386	sprea	d xsteps=9, d scale=0.25,						
		387			extwidth}% doe	s not work				
		388		u waan a	C/(C//	.5				
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								+	<u>*</u>	
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	1				Page 16		\headheight	t 12 pt	
							\headse	n 25 pt	
			The typed area	a blocks are adde	ed next.) ZO P	
		408			width@cx/\sprea	advetens@cx.			
		408	\u i aw [c y p c c .		width@cx/\sprea aperheight@cx/\		icx)		
		410	rectar		-		t@cx/\spreadxst	teps@cx);	;
		411	/ draw[tynea	1 (\nanerwi	· Jthacytl nanen	- 1+hacv/0+/hi	.ndingcorrection	_	
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		414			-	(bate)) =	
		415		ingcorrection>					
		416 417	scope \draw node a	e}[typearea,co at	lor=white;				
		417			5\bindingcorrec	ction,			
		419	0.5\p	paperheight@cx	x)[rotate=90,in	nner sep=0pt,ou	uter sep=0pt]		
		420		anslate{bindin	ngcorrectionnam	ne}};			1
		421 422	\fi \node at						
		422		\paperwidth@cx	x.0.5\paperheic	aht@cx){\trans	late{leftpagena	ame}};	
		424	\node at						
		425			+\bindingcorrec		1		
		426 427	0.5\p \end{scope}		x){r	ightpagename;	} ;		
					the circles. We	drow them wit!	1 in a scope to		
			Next we draw the separate the stylin	-		araw mem w.m.	Illi a scope to		
		428	-	_	ge, line width=	=1nt]			
		429	\draw (0,0	0) (\paperwi	idth@cx,\paperh	height@cx);			\textheight
		430	· ·		+\bindingcorrec				598 pt
		431	1		paperheight@cx)				
		a			same style as the Il produce ugly dia	-	o not provide		
			-		,5\paperheight@	-			
		432 433		paperwidtn@cx, le (0.5\paperw		(CX/9)			
		434	\draw [xshif	ft=\paperwidth	h@cx+\bindingco				
		435	(0.5\p	paperwidth@cx,	,5\paperheight@				
		436 437	circl \end{scope}	le (0.5\paperw	/idth@cx);				
		437 438	\end{scope} tikzpic						
		439	}	,	1				
		9	9 Try Lay	outs					
				_	macros to draw on nensions and layo		-		
			o experiment with nelper commands		-		. 10 tills some		
				-					
		1	10 Reada	hility					
					area should not e	exceed 45-65 ch	aracters. This		
		18	s language and re	eader dependent	<u>¢.</u>			<u></u>	
							\footskip	p 30 pt	
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							Y	marginpars	sep 11pt
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	1				†
				$1 \text{ in} + \text{\topmargin} (17 pt) = 8$	55.27 pt
			Page 18	\headheigh	t 12 pt
				\headse	n 25 pt
	477	\pgfmathprintnumber	{\pgfmathresult}		1
	478	}			
	479 480	<pre>\newcommand\numbertextl % baselineskip to be co</pre>			
	481	<pre>(\text</pre>		.2)-1}\pgfmathresult	
	482	}			
\printr	eadability)			
	483 484	<pre>\def\printreadability{% \begin{tabular}{lr}</pre>			
	485	Characters per line &	· ·	Λ	
	486 487	Alphabets per line &\ Alphabet length &\alp	T T		
	488	Baselineskip & \the\b	aselineskip\\		
	489	Number of text lines	&\numbertextlines\\		
	490	\end{tabular}}			
		11 Page Layout I	liagrams		
		_			
		This is one of the most importaring a page diagram, so that you	-	- T	
		Illy a page diagram, so may you	Call view new geomet	ry or use mem for notes.	
		11.1 New lengths			
		We need to isolate the current	page dimensions from	the new trial sizes for the	\textheight
		diagram. We redefine new leng	• •		598 pt
		suffix @cx.			
	491 492	\newlength\trypaperwidt \newlength\trypaperheig			
	493	\newlength\trytextheigh	t@cx		
	494 495	<pre>\newlength\tryheadheigh \newlength\tryheadsep@c</pre>			
	493	\newlength\tryfootskip@			
	497	\newlength\trymargintop			
	498 499	<pre>\newlength\trymarginbot \newlength\trytopmargin</pre>			
	500	\newlength\trimtop@cx			
	501 502	\setlength\trimtop@cx{0 \newlength\trytextwidth			
	503	\newlength\trymarginpar	width@cx		
	504 505	<pre>\newlength\trymarginpar \newlength\tryleftmargi</pre>	F		
	506	\newlength\tryinner@cx	ngex		
		The stockheight and stockw	idth are used when th	ne paper is to be trimmed	
		they default to the dimensions f The memoir class also defines the			
		the class.	nem. If they are define	ed, we use the values from	
\	tockheight				
	stockwidth,	\@ifundefined{stockheig	ht}{\global\newlend	th\stockheight}{}	
				\footski	n 30 nt
				(10013K1	
				\r	marginparsep 11pt
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									П	
					Do mo. 10				+	
					Page 19		\headheig	nt 12 p	ot 🛊	
							\headse	ep 25 p	ot	
		508	\@ifundefine	d{stockwidth}	{\global\newle	ength\stockwid			*	
		509								
		510			dtolength\sto	kheight{\pape	rheight}\fi			
		511 512		gth\stockheig width=0nt\add	nt{⊍mm} tolength\stock	width{\nanerw	idthl\fi			
		513		gth\stockwidt	-	width (paperw	ruciij (11			
		514								
		515	-	rystockheight						
		516 517		rystockwidth@	cx de=\setlength\	trystockwidth	acv[#1]			
		518			/.code=\setler	-				
		519	tr	y stock/.code	=} % a4paper e		loped toninght			
		520		tockwidth=\pa						
		521	try s	tockheight=\p	aperneight}					
		W	e set all the trim	s to zero to star	t with.					
		522	%							
		523	\newlength\t							
		524 525	\newlength\t	rimeage .efttrim{5mm}						
		526		ottomtrim{10p	t}					
		527	\setlength\t							
		528	-	rimedge{0pt}						
		529 530	%							
		531	% set defaul	ts						\textheight
		532		rymargintop@c						598 pt
		533	-		p@cx{\marginpa					
		534 535		rymarginparwi rytextwidth@c	dth@cx{\margir x{Ont}	iparwidtn}				
		536		rytrimedge@cx						
		537	\setlength\t	rytrimedge@cx	{10pt}					
		538	\nowlongth\t	ryoddsidemarg	in@cv					
		539 540	-		in@cx{\oddside	emargin}				
		541	-	ryevensidemar						
		542			gin@cx{\evensi	.demargin}				
		543		ryinnermargin	@cx or drawing the	lavouts				
		544 545	% convenie		or drawing the	. cayouts.				
		546	\newlength\t							
		547	\							
		548 549	\newlength\m	nargintop						
		550	\newcommand\	thetop{%						
	I I	551	\pgfmathp	arse{lin+\top	margin+∖headh∈		}			
		552		etlength{\mar	gintop}{\pgfma	thresult}				
		553 554	} %							
		555								
		556	\thetop							
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							\footsk:	ip 30 p	ot	
								4	*	
							`	margi	npars	ep 11pt
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duds	> = = =	- 20 pt		///	exewrach 500 pt				\iiia1	9211parwiath 101pt
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						$1 \text{ in} + \text$	$opmargin\left(17pt\right) =$	= 55.27 <u>1</u>	ot	
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					raye 20		\headheig	nt 12 p	1	
							\heads	ер 25 р	t	
		558	\newlength\m	_					1	
		559 560	\newcommand\ \pgfmathp	-	ight-(1in+\top	margin+\headh	eight+\headsep	+\tex	theight)	}
		561		setlength{\ma	rginbottom}{\p	gfmathresult}				
		562 563	}							
		564	\thebottom							
		11	We provide key ment, dimensions		dimensions. The	ese default to the	e current doc-			
		565			de=\global\set	·length\trutov	theight@cvʃ#1]			
		566	try t	extheight/.de	fault=\texthei	ght,	_			
		567		-	de=\global\set fault=\headhei			,		
		568 569	try h	eadsep/.code=	\global\setlen	gth\tryheadse				
		570 571			lt=\headsep, %		kinacy(#1)			
		571 572			=\global\setle ult=\footskip,		κ τ μ@cΧ{#1},			
		573	try t	opmargin/.cod	e=\global\setl	ength\trytopm	argin@cx{#1},			
		574 575	}	opmargin/.det	ault=\topmargi	.n ,				
	1	576) _1 _		. (41)			
		577 578			\global\setlen lt=\global\set	-				
		579			.5	J .	, , , , ,			
		580 581	% set all th	e defaults						theight 98pt
		582	try t							
		583 584		neadheight, neadsep,						
		585	try f	ootskip,						
		586 587		opmargin=0pt, rimtop=10pt}	% compensate	for trim				
		588								
		589 590	\setlength\t	rytopmargin@c	x{\topmargin}					
		591								
		592 593			e=\global\setl =\global\setle			,		
		593 594	}	. i imeuge/ i code	— (g tobat (3et le	y cirt \ cr y t l ±	cuycec∧∫(#±},			
		595	\cvc0+1+m/ +	extwidth=\tex	twidth					
		596 597		.extwidth=\tex :rimedge=10pt}						
\@t	rydiago		he switch \@tryd anon, diagonal li		l in keys to draw	or skip the Page	e Construction			
	I	598	\newif\if@tr	-						
		599 600	∖@trydiagona	ılfalse						
		601		liagonal/.is c						
		602 603		-	.code=\@trydia /.code=\@trydi	-			<u> </u>	
					(621) 41	J	\footsk	ip 30 m	t	
								\margi	nparsep 1	1pt
odds	idemargiı	n 28 pt		\te	extwidth $380\mathrm{pt}$				\marginp	parwidth 101pt
drivon mornis	1 in	▼							4	—
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					$1 \text{ in} + \text{\tau}opmargin} (17 pt) =$	- 55 27 nt	
					Tim (Copining)	- 00.21 pt	
			.	 			
				Page 21	\headheig	ht 12 nt	
				Tuge :		12 90	
						sep 25pt	
		604 605	try diagonal/none/	.code=\trydiag	onalfalse}		
		606	try diagonal=false	إي			
	\tryg	rid ^r	The try grid conditional provides a	a switch to switc	ch the grid on or off. We set it		
		-	nitially to true.				
		607	\newif\iftrygrid				
		608 609	\trygridfalse				
		610	try grid/.is choice				
		611 612	try grid/true/.cod try grid/false/.co				
		613	try grid/none/.cod				
		614 615	<pre>\cxset{try grid=true}</pre>				
		010	(6,566[6.], 5				
		1	11.2 Allowances for tr	ims			
			Throughout we are focusing on th	_	_		
			example use A4 paper and trim stockwidth and stockheight and				
			smaller size to cater for these trim	ns.			
		,	I call this process trimming in ncrease the paper size to allow for				
			nemoir class has something simila		displaying a larger page.	\texthei	aht
\trypap	erwidth	nacx '	We set the length to stocksize-trim	nedae.		598 pt	
\trypape			% set the trial paper size	zes as per trim			
		617	\addtolength\trypaperwidt	th@cx{\trystock	width@cx}		
		618 619	\addtolength\trypaperwidt \addtolength\trypaperheig		_		
		620	\addtolength\trypaperheig	ght@cx{-\trimto	p@cx}		
		621	\addtolength\trypaperheig	ht@cx{-\por.com	trim}		
			11.2.1 Calculating the Top	Margin and I	Bottom Margin		
			We calculate the top and bottom				
		f	ar we are only dealing with defau	ılt settings. I the			
			hese will have to be recalculated.		· · · · · · · · · · · · · · · · · · ·		
		622 623	<pre>%\addtolength\trymarginto %\addtolength\trymarginto</pre>	p@cx{\dimexpr(\tryheadsep@cx+		
		624	% \tryheadheight@cx+\tr				
			11.2.2 Adjustments to text	haiaht			
			Since we are trimming-in, our paper		- d boing smaller than the		
		S	stock paper height. One is thus fa	faced with the de	ecision to either make the top		
		а	and bottom margins smaller to allo		_		
			accordingly. Most people and publishers are				
		r	reduce the text-height. We offer a			<u> </u>	
					\footsk	kip 30pt	
		-				1	
						\marginparsep 11pt	
oddsi	idemargiı	in 28 pt	\t	extwidth $380\mathrm{pt}$		\marginparwi	idth 101pt
4	>	-				-	>
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				1
			1: 1 tenmargin (17 mt)	
			$1 ext{ in} + ext{ topmargin} (17 pt) =$	= 55.27 pt
		Page 22	\headheig	ght 12pt
			\ heads	sep 25pt
	In the meantime f	for the number of defaults v	ve will take all the adjustment	sep 25 pt
		and leave the text-height unt	_	
\ tautaythaight@c		_		
\trytextheight@cx		ex equal to the current docum	-	
62	.5 \setlengtn\LryL	textheight@cx{\textheight	}	
62		marginbottom@cx{%		
62		rystockheight@cx-lin-\tri height@cx-\tryheadsen@cx-		
62	· ·	elgnt@cx - \Li yiieausepeex	<pre>\trytextheight@cx)\relax}</pre>	
63	30			
63	31 \newlength\step	JX		
	11 2 Dwaring	1 m.t-1 I arout		
		the Trial Layout		
			re. If no new dimensions are	
	provided by the user is the current layout ve		ve have set it previously. That	
	-			
\drawtriallayout	t The macro \drawtria dimensions.	Illayout draws the page diac	gram. It uses throughout trial	
63		(35) 25-bl 26k >-]s		
63 63		style = {color=black,>=la layout{%	tex}}	
		-	en page and set the geometry	
			t to drawing everything as an	\textheight
	odd-side page.		0 00 02 22 J	598 pt
63	' T			
63		se\oddpagetrue\fi		
63	. 3	ength\tryinnermargin@cx{\	tryoddsidemargin@cx}	
63	•		innermargin@cx+\hoffset)}	
63	39 \else		-	
64	_	length\tryinnermargin@cx{`		
64		.ryINNER{\dimexpr(iin+\i	yinnermargin@cx+\hoffset)}	
64	13			
64			ale=0.42,font={\scriptsize	<pre>\rmfamily},line width=.8pt,</pre>
64 64	1	ode={color=black}, im/.style={color=theblue,	fill whitel	
64		t/.style={color=thebtue, t/.style={color=black},	III(=WIII(e),	
64		ck/.style={fill=gray,opac	ity=0.3}]	
64		or arealism)		
65		.baselineskip}		
65 65.		d+bdims@		
65.		widthdim{% e (A) at (0,\tol);		
65-	\coordinate	e (B) at (\trystockwidth@	cx -\trytrimedge@cx,\tol);	
65		e (C) at (0.5\trystockwid , <->] (A) (B);	th@cx,\tol);	
65		, <->] (A) (B); C) [yshift=0.5\baselinesk	in)l	
	·	7 1,5002. 2		<u> </u>
			\f00tsk	kip 30 pt
				+
				\marginparsep 11pt
oddsidemargin 28	8 pt	\textwidth 380pt		\marginparwidth 101pt
				→
driver margin 1 in				

```
1 \text{ in} + \text{\topmargin} (17 pt) = 55.27 pt
                                                           Page 23
                                                                                          \headheight 12pt
                                                                                             \headsep 25pt
                                  {paper width = \convert@cx{\trypaperwidth@cx} $(W_p)$};}
                     658
                     659
                     660
                              % Draw paper width dimension
                     661
                              \def\drawpaperwidthevendim{%
                                  \coordinate (A) at (0+\trytrimedge@cx,\tol);
                     663
                                  \coordinate (B) at (\trystockwidth@cx,\tol);
                     664
                                  \coordinate (C) at (0.5\trystockwidth@cx,\tol);
                                  \draw[dim, |<->|] (A) -- (B);
                     665
                                  \node at (C) [yshift=0.5\baselineskip)]
                     666
                                  {paper width = \convert@cx{\trypaperwidth@cx} $(W_p)$};
                     667
                              }
                     668
                          11.3.1 Draw stock paper
                          First we draw the stockwidth and stockheight
                              \draw [color=thegray] (0,0) rectangle
                     670
                                         ++(\trystockwidth@cx,\trystockheight@cx);
                     671
                              % draw the paper if trims are defined and no book size given
                     672
                              % the paper width is then defined by the dashed blue line
                     673
                              \ifoddpage
                     674
                     675
                                \draw [book trim] (0+\lefttrim,\trystockheight@cx-\trimtop@cx)
                     676
                                      rectangle ++(\trystockwidth@cx-\lefttrim-\trytrimedge@cx,
                     677
                                      -\trystockheight@cx+\trimtop@cx+\bottomtrim);
                                      \drawpaperwidthdim
                     678
                                                                                                            \textheight
                               \else
                     679
                                680
                                      rectangle ++(\trystockwidth@cx-\lefttrim-\trytrimedge@cx,
                     681
                     682
                                      -\trystockheight@cx+\trimtop@cx+\bottomtrim);
                                     \drawpaperwidthevendim
                     683
                              \fi
                     684
                     685
                          11.3.2 Draw grid
                          Unlike the grid on page spreads we provide a conditional to switch it off if nec-
                          essary. It set to true by default.
                     686
                              \pgfmathsetmacro{\gridx}{10}
                              \iftrvarid
                     687
                                \ifoddpage
                     688
                                  \draw[xstep=(\trypaperwidth@cx-\lefttrim)/\gridx,
                     689
                     690
                                      ystep=\trypaperheight@cx/\gridx,color=thegreen!50,
                                      line width=0.4pt,yshift=\bottomtrim,xshift=\lefttrim]
                     691
                                     (0,0) grid (\trypaperwidth@cx-\lefttrim,\trypaperheight@cx);
                     692
                                \else
                                  \draw[xstep=(\trypaperwidth@cx)/\gridx,
                     694
                                      ystep=\trypaperheight@cx/\gridx,color=thegreen,
                     695
                                      line width=0.4pt,yshift=\bottomtrim,xshift=\trytrimedge@cx]
                     696
                                      (0,0) grid ++(\trypaperwidth@cx,\trypaperheight@cx);
                     697
                                \fi
                     698
                              \fi
                     699
                                                                                           \footskip 30pt
                                                                                                  \marginparsep 11pt
         oddsidemargin 28 pt
                                                     \textwidth 380 pt
                                                                                                         \mbox{\mbox{\it marginparwidth}}\ 101\,\mbox{\it pt}
driver margin 1 in
```

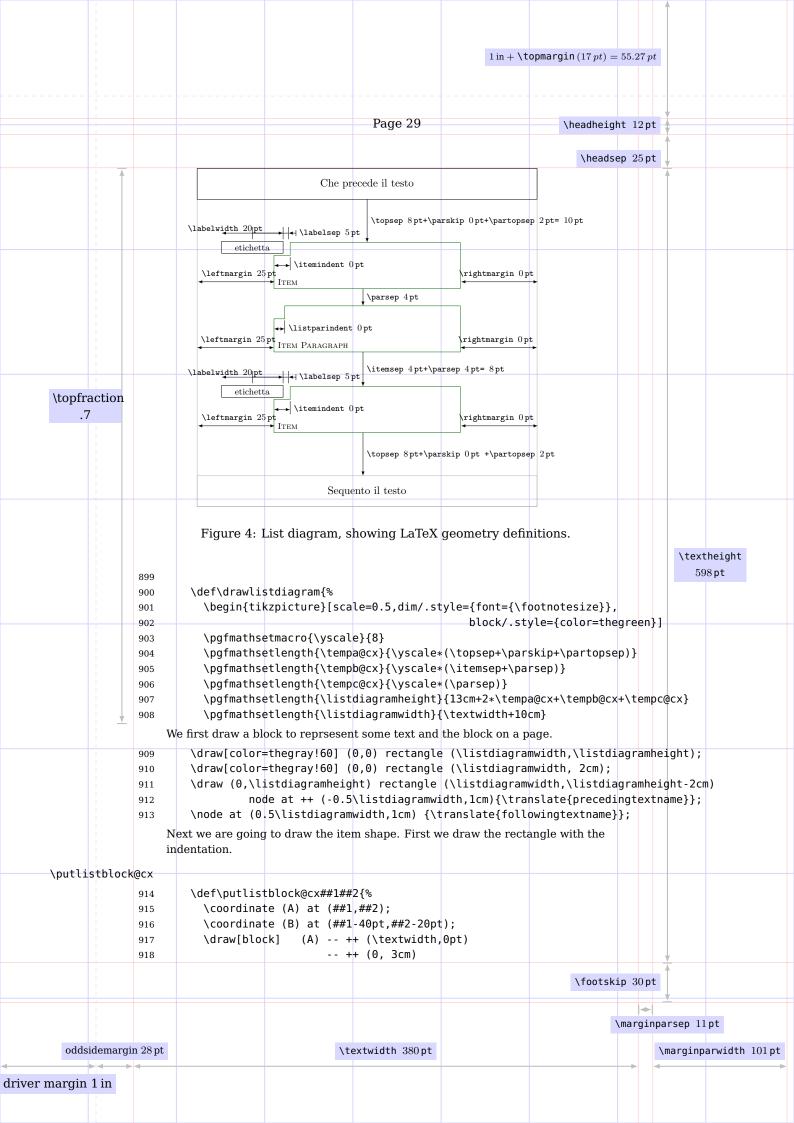
					1	(1	
						1 in 1 \t	(17 nt) =	77 07 -4	
						1 m + 100	$topmargin\left(17pt ight) = 5$	55.27 pt	
						1			
								<u></u>	
					Page 24		\headheight	t 12pt	
							\ handsa	25-4	
	1 1		11 2 2 Promine	11 - bindin	·action		\headsep	25 pt ↓	
			11.3.3 Drawing	Ī	Ţ	1			
			The binding correct		the stockheight.	. It will appear or	n the opposite		
			site in the even pag	je.					
		700	\ifoddpage	'tockheigh	nt@cx + 3mm)	·· (0 1cm)			
		701 702					efttrim,-0.5cm)[->.>=lat	evl
		702	++	+(0.5cm+\left	trim,0);				2^1
		704		trystockheight		1			
		705 706			-+ (\lefttrim,0 -=latex] ++(-				
		706 707		cm,⊍cm)[->,>= [right] at ++(TCM, UCm,			
		708	{\tra			ame}\ \convert	@cx{\lefttrim}	\$(\delta_	_b)\$ };
	1 1	709	\fi						
		710 711	o stockwidth	dimension lir					
		711 712		dimension tir {baselineskip}					
		713	\coordinate ((BD) at (0,\to	ol);				
		714	\coordinate ((BD2) at (\st	ockwidth,-5\ba	selineskip);			
		715 716		<->] (BD) + (0 5\stockwi					
		716 717		+ (0.5\stockwi ift=0.5\baseli					
		717			x{\stockwidth}	\$ \$(W_s)\$} ;			
		719				()			
		720	% top dimensi		· · ······-tockhoi/				\textheight
		721 722		(H1) at (-5mm, (H2) at (-5mm,		ght@cx-\trimtop	,)@cx);		598 pt
		723				-\trytopmargin@	@cx-		
		724	\tryheadh	height@cx-\try	yheadsep@cx);	()	ĺ		
	1 1	725		<->] (H1)		1 dim toyt]			
		726 727			ocm, text cente ocx-0.5*\margin	ered,dim text]	at		
		727			ne\margintop}\\				
		729				()			
		730		ension at left (H3) at (-5mm		l. 1			
		731 732	· ·		n,0+\bottomtrim n,\trymarginbot	1			
		733		(H4) at (-511111), <->] (H3)		toliigex,,			
		734	\node[left,te	ext width=1.5	cm,text ragged	left]			
		735		0.5*\trymargir					
		736 737	{bottom\\ \$(h_{b})\$		[\the\trymargi	nbottomacx;			
		737	¥111-1-27.	'					
		739	% textheight			1			
		740			rymarginbottom	ı@cx)			
		741 742		\trytextheight ext_width=1.6d	nt@cx); Scm,text center	and dim text]			
		742 743				rea,aim text) ytextheight@cx)	.)		
		744	{texth	height} \conve	ert@cx{\trytex	-			
		745	\$(h_x)\$ };	;					
		746						1	
							Mantski	20 nt	
							\footskip	30 pt	
								+	
							VIII	marginparse	ep 11 pt
oddsi	idemargir	n 28 pt		\te	extwidth $380\mathrm{pt}$			\mar	rginparwidth $101\mathrm{pt}$
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1 \text{ in} + \text{\topmargin} (17 pt) = 55.27 pt
                                                               Page 25
                                                                                                \headheight 12pt
                                                                                                   \headsep 25\,\mathrm{pt}
                            11.3.4 Book height
                            Book sizes are specified by the size of the final trimmed sizes. for most users
                            there is no need to worry about trims and binding corrections, however we pro-
                            vide these for consistency and for books that are perhaps to be sent to an on-line
                            bureau for printing.
                                \draw [dim, |<->|] (-4.7cm, \bottomtrim) --
                                  (-4.7cm,0.5\trystockheight@cx-0.5\trimtop@cx)
                                  node[left,text width=1.2cm,text centered,dim text]
                       749
                                  {\translate{bookheightname}\\ \convert@cx{\trypaperheight@cx}} --
                       750
                                  (-4.7cm,\trystockheight@cx-0.5\trimtop@cx);
                       751
                            11.3.5 Draw the edge trim
                            The paper is always assumed to be trimmed at top bottom and the edge margin.
                            We first draw the edge trim and its dimension.
                                \ifdim\trytrimedge@cx>0pt
                       753
                                 \ifoddpage
                                   \coordinate (D) at (\trystockwidth@cx-4\trytrimedge@cx,
                       754
                                                          0.10\trytextheight@cx);
                       755
                                   \coordinate (E) at (\trystockwidth@cx,0.10\trytextheight@cx);
                       756
                       757
                                   \draw [dim, ->|] (D) -- ++(3\trytrimedge@cx,0);
                       758
                                   \draw [dim, <-|] (E) -- ++ (3\trytrimedge@cx,0)
                       759
                                     node at ++(0,0) [right,text width=2cm,dim text]
                                      {\translate{trimedgename}\
                       760
                                                                                                                    \textheight
                                      \convert@cx{\the\trytrimedge@cx}
                       761
                                                                                                                       598 pt
                                      $(\Delta_e)$};
                       762
                       763
                                  \coordinate (D1) at (0, \trystockheight@cx+ 5mm);
                       764
                                  \coordinate (E1) at ++ (\trytrimedge@cx,\stockheight+\trimtop@cx);
                       765
                                  \draw (D1) -- ++ (0, 10mm) ++ (\trytrimedge@cx,0) -- ++ (0,-10mm) ;
                       766
                                 \fi
                       767
                       768
                                \fi
                            11.3.6 The top trim
                            The top trim is drawn next. As it is very small normally we try not to crowd the
                            label and the dimension lines. We will only show it if it has a value.
                       769
                       770
                                %\ifdim\trimtop>0pt
                       771
                                  \coordinate (F) at (0.9\trystockwidth@cx,\trystockheight@cx-\trimtop@cx-8mm);
                                  \coordinate (G) at (0.9\trystockwidth@cx,\trystockheight@cx-\trimtop@cx);
                       772
                                  \coordinate (H) at (0.9\trystockwidth@cx,\trystockheight@cx);
                       773
                                  \draw (F)[dim,->|,>=latex] -- (G);
                       774
                                  \draw (H) -- ++ (0,8mm) -- ++ (5mm,0)[|<-|,>=latex]
                                           node [text width=2cm, right] at ++ (0,3pt) {\translate{trimtopname}\
                       777
                                           \\ \convert@cx{\the\trimtop@cx} $(\Delta_t)$};
                                %\fi
                       778
                                                                                                  \footskip 30pt
                                                                                                         \marginparsep 11pt
          oddsidemargin 28 pt
                                                         \texttt{\textwidth}\ 380\,\mathsf{pt}
                                                                                                                 \mbox{\mbox{\it marginparwidth}}\ 101\,\mbox{\it pt}
driver margin 1 in
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								ı	1	
									1	
						$1 in + \t$	$topmargin\left(17pt ight) =$	55.27	pt	
				ţ					-	
					Page 26		\headheigh	ıt 12 p	ρt	*
							\ hoads	- 251	1	
	1	1	11.3.7 Driver	offeets			\headse	p 25 p	it +	<u> </u>
					Till - lines are dra	- + + ho loft sic	-fibe noner		1	
			Next we draw the both for even and						1	
			going to print then		-	-	_		1	
		779			n,\trystockheig				+	
		780 781			ive] (lin,0) ivel (0in.\trvs		ockheight@cx); <-lin) ++ (\tı	rvst(nck)	widthacy A):
		781				-		-		<pre>\oneinc</pre>
					ıse innermargin v				1	
		е	either oddsidemar	-	_				1	
		783	5 1of	inn inn					1	
	1	784 785		t = 1in + inne tryleftmargin@	ermargin @cx{\dimexpr(1i	in+\innermargi	713		+	1
		786	\draw [dim,	<->] (0in,1.	.9cm) (1in+\	√innermargin,1	L.9cm)		1	
		787	node at (0.6	6in,3.2cm)[tex	xt width=1in,di	lim text,text c	centered]		1	
		788 789	{\$(W_1)\$\\ \	convert@cx{\i	tryleftmargin@c	cx}\\inner man	gin};		1	
		789				-	e[right,dim text		1	
		791			onvert@cx{\the\	-	-		1	
		792 793							+	
		793	% add topm	margin dimensi	ion				1	
		795				3 : \ + m				
		796 797					/topmargin@cx)\ı kheight@cx-\trin			\textheight); 598pt
		797	\draw [dim,	<->] (S1)			letyliceck , -	HLUPL	10.7	, 990 pt
		799	++	(0,-\@tempdim	mc-\trimtop@cx)				1	
	1	800 801		_	ext, text width mc) {\convert@d		. ¢(\delta_t)\$		+	
		802			gin \convert@cx				1	
									1	
		3	11.3.8 Draw tl	he running h	ead)	
		Т	The running head		_)	
		803	\pgfmathset1		dimb}{\trystock	-			1	
	<u> </u>	804 805		// 11/	mtop@cx-1in-\tr	rytopmarginges	}		-	
		806			NNER, \@tempdim				1	
		807 808	reç	<pre>ctangle ++ (\t</pre>	trytextwidth@cx	x,-\tryheadhei	ght@cx);		1	
ĺ		808 809	% add head	height dimensi	ion				1	
		810	\draw [dim,-	- ,>=stealth]	(\trystockwidt				1	
		811 812		++(0,-\tryhead 2ex,0.3\tryhea	dheight@cx) nod adheight@cx)	de [right,dim	text] at		1	
	-	812			-	the\tryheadhei	lght@cx} \$(h_{h_	,h})\$	\$};	
		814	%			,				
i i		815 816		adsep dimensio	on ckwidth@cx+3ex,	,			1	
		816	\@temp	pdimb-\tryhead	dheight@cx-\try	yheadsep@cx)			1	
		818			ep@cx) node [ri] at		1	1
i i							\footski	.p 30 p	ət	
								margi	inna	arsep 11pt
oddsic	demargir	n 28 pt		\1	textwidth $380\mathrm{pt}$	1		ma. g_		marginparwidth 101 pt
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driver margin 1	in									
[]										

```
1 \text{ in} + \text{\topmargin} (17 pt) = 55.27 pt
                                                            Page 27
                                                                                            \headheight 12pt
                                                                                               \headsep 25pt
                      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.
                      821
                              \coordinate (J) at (\tryINNER,
                      822
                                    \@tempdimb-\tryheadsep@cx-\tryheadheight@cx);
                      823
                              \draw[textblock] (J) rectangle ++ (\trytextwidth@cx, \trytextheight@cx);
                              \draw[dim,<->|,dim text] (\tryINNER,0.75\trytextheight@cx)
                      824
                                 -- ++(\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,
                                      \@tempdimb-\tryheadsep@cx-\tryheadheight@cx) --
                      831
                                      ++(0,-\trytextheight@cx) node [right, dim text, text width=2.5cm]
                      832
                                      at ++(2ex,0.5\trytextheight@cx)
                                      {\CS{textheight}\\ \convert@cx{\the\trytextheight@cx}$(h_x)$};
                      833
                           11.3.10 Footer
                           Add the footer and its dimension.
                              \coordinate (I) at (\tryINNER,
                      834
                      835
                                         \@tempdimb-\tryheadsep@cx-
                                                                                                               \textheight
                                         \tryheadheight@cx-\trytextheight@cx-\tryfootskip@cx);
                      836
                                                                                                                 598\,\mathrm{pt}
                              \draw[textblock] (I) rectangle ++ (\trytextwidth@cx,\tryheadheight@cx);
                      837
                              \draw [dim,|<->|,>=stealth] (\trystockwidth@cx+3ex,\@tempdimb-\tryheadsep@cx-
                      838
                      839
                                   \tryheadheight@cx-\trytextheight@cx) --
                                   ++(0,-\tryfootskip@cx) node [right, dim text] at
                                   ++(2ex,0.5\tryfootskip@cx){%
                                   \labelit@cx{\tryfootskip@cx}$(h_f)$};
                      843
                      844
                              % marginpar
                      845
                              \def\leftmarginpar{%
                      846
                                  \draw [textblock] (\tryINNER+\trytextwidth@cx+\trymarginparsep@cx,
                      847
                                        \@tempdimb-\tryheadsep@cx-\tryheadheight@cx) rectangle ++(\trymarginparwidth@cx,-\tr
                      848
                               \draw [dim,|<->|] (\tryINNER+\trytextwidth@cx+\trymarginparsep@cx
                      849
                                  +\trymarginparwidth@cx,0.75\trytextheight@cx)
                      850
                                  -- ++ (-\trymarginparwidth@cx,0) node at
                      851
                                  ++(0.5\trymarginparwidth@cx,0.7\baselineskip)
                      852
                      853
                                  {marginparwidth} node at ++(0.5\trymarginparwidth@cx,-\baselineskip)
                      854
                                  {\convert@cx{\the\trymarginparwidth@cx} $(w_{m,w})$};
                      855
                              % Draw the marginsep dimension above
                      856
                               \draw [dim,|-|] (\tryINNER+\trytextwidth@cx,0.85\trytextheight@cx)
                      857
                                         -- ++ (\trymarginparsep@cx,0)
                      858
                      859
                                        node[right,dim text,text width=2cm,text centered] at
                                        ++(-3ex,12pt) \{marginparsep \setminus \convert@cx{\trymarginparsep@cx} | s(w_{m,s}) s \};
                      860
                              }
                      861
                                                                                             \footskip 30pt
                                                                                                    \marginparsep 11pt
          oddsidemargin 28 pt
                                                       \textwidth 380 pt
                                                                                                           \marginparwidth 101pt
driver margin 1 in
```

						1 in + \t	copmargin $(17pt)$ =	= 55.27 p	ot .	
					Page 28		\headheig	ht 12 p	t	
									1	
			0				\heads	ep 25 p	t	
		862 863	% \def\rightmarginp	nar{%						
		864 865	\draw [textblock \@tempdimb-\tr	(] (\try] yheadsep	INNER-\trymargi o@cx-\tryheadhe ginparwidth@cx,	eight@cx)	htacy).			
		866 867	\draw [dim, <->					lth@cx	_	
		868			x) ++ (\try					
		869	- I		rwidth@cx,0.5\b		- '			
		870	-	jinparwid	dth,-\baselines	kip){\convert	@cx{\the\margi	nparw	idth}};	
		871	}							
		872 873	%							
		873	^ \drawmarginparstr	ue						
		875	\ifdrawmarginpars							
		876	\ifoddpage							
		877	\leftmarginpa	ar						
		878	\else							
		879	\rightmargin	npar						
		880 881	\fi \fi							
		001	/11							
			11.3.11 Page Cons	truction	Canon Diago	nal Lines				
			I the conditional @trydi	agonal is	s set to true drav	w the diagonal li	ines. At false			
			or none skip.						\tex	ktheight
		882	\if@trydiagonal							598 pt
		883	\ifoddpage	h] uo l 36](\trystockwid	lthacy \trytri	modgo@cv \hott	omtri		
		884 885			rystockheight@d			OIIICIT	III <i>)</i>	
		886	\else	, (y s cocinici gir cec	x (cr imcobecx	,			
		887	\draw [color=	blue!30]	(\trytrimedge	e@cx,0)				
		888		lth,∖pap∈	erheight-\trimt	op@cx);				
		889	\fi							
		890	\fi							
		891 892	<pre>\end{tikzpicture} }</pre>	•						
		893	J							
			12 Lists							
			List diagrams are devel	oped usir	ng the technique	s we have used	so far for the			
			pages. We define layouts	_	_					
	\ d == : 1	ic+	The magra \ drawlight 1	10 THE 0-	utling of an amount	orated on area	mo of list ill			
	\drawl		The macro \drawlist drating the main parame							
			originally in the layouts				_			
		894	\newlength\tempa@	_	-p-10 10	9 0				
		895	\newlength\tempb@							
		896	\newlength\tempc@	jcx						
		897	\newlength\listdi	-	-					
		898	\newlength\listdi	agramwio	dth				*	
							\footsk	ip 30 p	t	
								-	*	
								\margi	nparsep 1	.1 pt
			.							
odds	sidemargi	n 28 pt		\t	extwidth 380 pt				\margin	parwidth 101 pt
drivon mannin	1 in	•							4	
driver margin	1 111									



```
1 \text{ in} + \text{\topmargin} (17 pt) = 55.27 pt
                                                                                                                  Page 31
                                                                                                                                                                             \headheight 12\,pt
                                                                                                                                                                                  \headsep 25pt
                                                                \draw[<->,>=latex] (A) ++ (Opt+\textwidth,8pt) -- ++ (5cm,Opt)
                                         970
                                         971
                                                                         node at ++(0,0)[above left] { \labelit@cx{\rightmargin}};
                                         972
                                         973
                                                                \node[dim] (A) at (##1,##2)[above right] {\textsc{Item Paragraph}};
                                                          }
                                                          % We start by drawing the blocks. We draw three blocks, the first and last show items, wherea
                                                          % the middle one shows a paragraph within an item.
                                         978
                                                          % Since values for list parameters are small, we scale everything up.
                                         979
                                                                      |\tempa@cx = scaled topsep + parskskip + partopsep|
                                         980
                                                          બુ
                                                                      |\tempb@cx = scaled itemsep + parsep|
                                         981
                                         982
                                                         %
                                                          % \end{macrocode}
                                         983
                                                          % \begin{macrocode}
                                         984
                                                          \putlistblock@cx{5cm}{2cm+\tempa@cx} % 8cm
                                         985
                                         986
                                                          \draw [<-,>=latex] (0.5\paperwidth, 2cm)-
                                         987
                                                                                  -++(0, \text{empa@cx}) node at ++(0, -0.5 \text{empa@cx}) [right]
                                                                                  {\labelit@cx{\topsep}+\labelit@cx{\parskip} +\labelit@cx{\partopsep}};
                                         988
                                         989
                                                          % second block
                                         990
                                                          \putlistparblock@cx{5cm}{2cm+\tempa@cx+3cm+\tempb@cx}
                                                          \det [->,>=latex] (0.5\pi) - ++(0,-\pi)
                                         992
                                                                     node at ++(0,0.5\tempb@cx) [right]
                                         993
                                                                      {\labelit@cx{\itemsep}+\labelit@cx{\parsep}=
                                                                                                                                                                                                                \textheight
                                         995
                                                                              \pgfmathparse{\itemsep+\parsep}\convert@cx{\pgfmathresult}};
                                                                                                                                                                                                                      598\,\mathrm{pt}
                                         996
                                                          %% third block
                                         997
                                                          \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)
                                        1001
                                                                     node at ++(0,0.5\tempc@cx) [right] {\labelit@cx{\parsep}};
                                        1002
                                        1003
                                                          % add finally the top arrow
                                                          \draw [->,>\frac{1}{draw [->,>\frac{1}{draw [->,>\frac{1}{draw [->,-\frac{1}{draw [->,-\f
                                        1004
                                        1005
                                                                    node at ++(0,0.5\tempa@cx) [right]
                                                          {\labelit@cx{\topsep}+\labelit@cx{\parskip}+\labelit@cx{\partopsep}=
                                        1006
                                        1007
                                                                    \pgfmathparse{\topsep+\parskip+\partopsep}\convert@cx{\pgfmathresult}};
                                        1008
                                        1009
                                        1010
                                                          \end{tikzpicture}
                                        1011
                                                   12.1 Tabulating List values
                                                  The command \printlistvalues produces a short table showing the list param-
              \printlistvalues
                                                   eters and their values (see Table 1 for an example).
                                        1012
                                                          \def\printlistvalues{%
                                                              \begin{tabular}{lr}
                                        1013
                                                                  \toprule
                                        1014
                                        1015
                                                                  Parameter & Value\\
                                                                                                                                                                                \footskip 30pt
                                                                                                                                                                                             \marginparsep 11pt
                  oddsidemargin 28 pt
                                                                                                       \textwidth 380 pt
                                                                                                                                                                                                          \mbox{\mbox{\it marginparwidth}}\ 101\,\mbox{\it pt}
driver margin 1 in
```

			$1 \text{ in} + \text{\top}$	omargin $(1.42pc)=4.61$	l pc
		Page 32		\headheight 1	pc
				\headsep 2.08	spc .
1			_		1
		meter Value nargin 1.83 pe			
	right item label label listpa topse parte	margin 1.83 pc indent 0 pc lwidth 1.42 pc lsep 0.42 pc arindent 0 pc ep 0.33 pc opsep 0.17 pc	c c c c c		
	parse items				
\topfraction .7	Table 1: Tabulation of LaTeX	list values, for th	e quotation ei	nvironment.	
1016 1017 1018	rightmargin & \conv		ntmargin}\\		
1019 1020 1021 1022 1023 1024 1025 1026	labelwidth & \convolution labelsep & \convolution listparindent& \convolution topsep & \convolution partopsep & \convolution parsep & \convolution	ert@cx{\iteminde ert@cx{\labelwid ert@cx{\labelsep ert@cx{\listpari ert@cx{\topsep}\ ert@cx{\partopse ert@cx{\parsep}\ ert@cx{\itemsep}	dth}\\ b}\\ indent}\\ \\ ep}\\		\textheight 49.83 pc
	\bottomrule \end{tabular} } 13 Draw a Font bo				
	We provide a command that can TikZ for drafting and styling. We				
	Parameters. This will p Parameters. This will p	meter Value encoding T1 Family fve series m	<u>e</u>	2 and Table 3.	
	font s		ot		
	Table 2: Font detail	s for the current	document for	ıt.	
				\footskip 2.5	pc
				\margi	inparsep 0.92 pc
oddsidemargin 2.33 po	te	extwidth $31.66\mathrm{pc}$			\marginparwidth 8.42
ver margin 1 in					

				1
		$1 \text{ in} + \text$	opmargin $(1.42pc)=4.61pc$	
				• • • • • • • • • • • • • • • • • • •
	Page 33		\headheight 1pc	†
			\headsep 2.08 pc	<u> </u>
	Parameter	Value		1
	fontdimen1 (slant per point) is fontdimen2 (interword space) fontdimen3 (interword stretch	2.86197pt n) 1.71898pt		
	fontdimen4 (interword shrink) fontdimen5 (x-height) fontdimen6 (quad width) fontdimen7 (outro one co)	4.67096pt 8.99994pt		
	fontdimen7 (extra space)	0.68399pt		
	Table 3: Font dimension details for the	current docume	ent font.	
	To draw a fontbox, we use			
\topfraction				
.7	x-height=1.39 pc depth=0.43 pc depth= $\frac{1.39 \text{ pc}}{1.39 \text{ pc}}$	2 pc		
	This draws Q werty.			
\printfontparams				
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