IT'S INTHE DESTAILS

HANS HAGEN
PRAGMA ADE
HASSELT NL



Introduction

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	On the ConTEXt mailing list, occasionally a user asks if we can post a complete	3
	document with the associated style. One reason for not honouring this request is	_ 4
	that we want users to cook up their own styles. Besides that, there are a couple	
	of styles in the regular ConT _F Xt distribution.	6
	When browsing through this document, a ConTEXt user may wonder what style	7
	was used to achieve its look and feel. We hope that while reading the text and	
	playing with the examples, the reader will accomplish the skills to define more	
	than just simple layouts.	10
	This document is not easy reading. Occasionally we spend some time explaining	
	features not described in other manuals. The design of this document is to a	
_	large extent determined by its purpose, and as a result not always functional	
-	For instance, we typeset on a grid which doesn't look too good. Also the order	
-	of presenting features, tips and tricks is kind of random and unstructured. The	
_	idea is that the visual effects will draw you to the right trick. Also, if you really	
-	want to benefit from these features, there is no way but to read the whole story	
	In spite of all its shortcomings, I hope that you enjoy reading this (yet unfinished)	
_	manual. Keep in mind that this manual is far from finished.	19
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	2015 ⁺ MkIV	25
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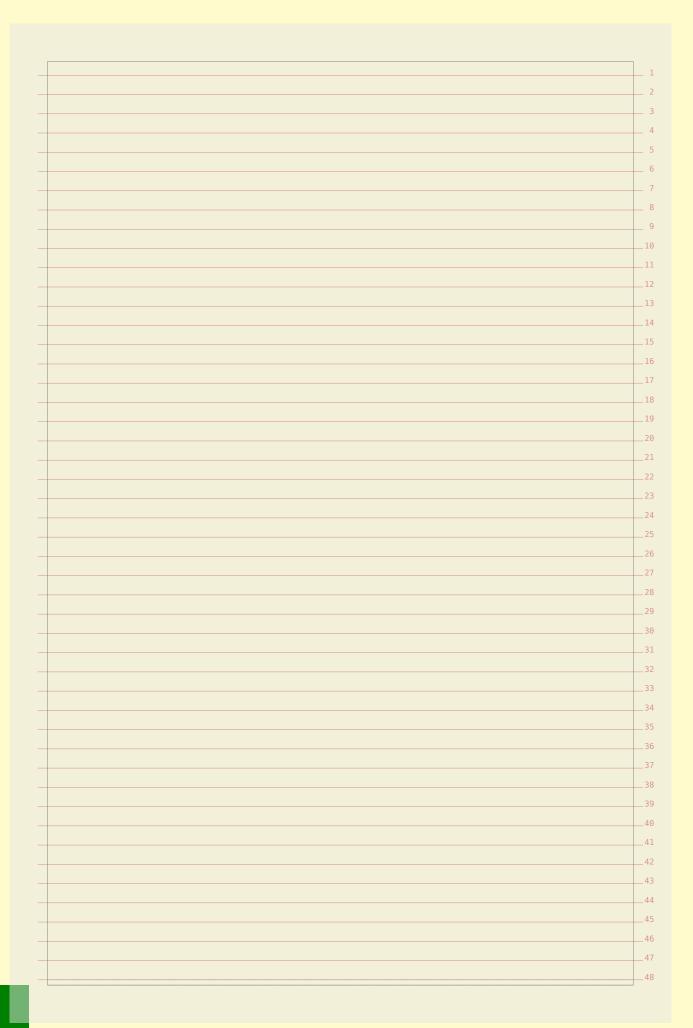
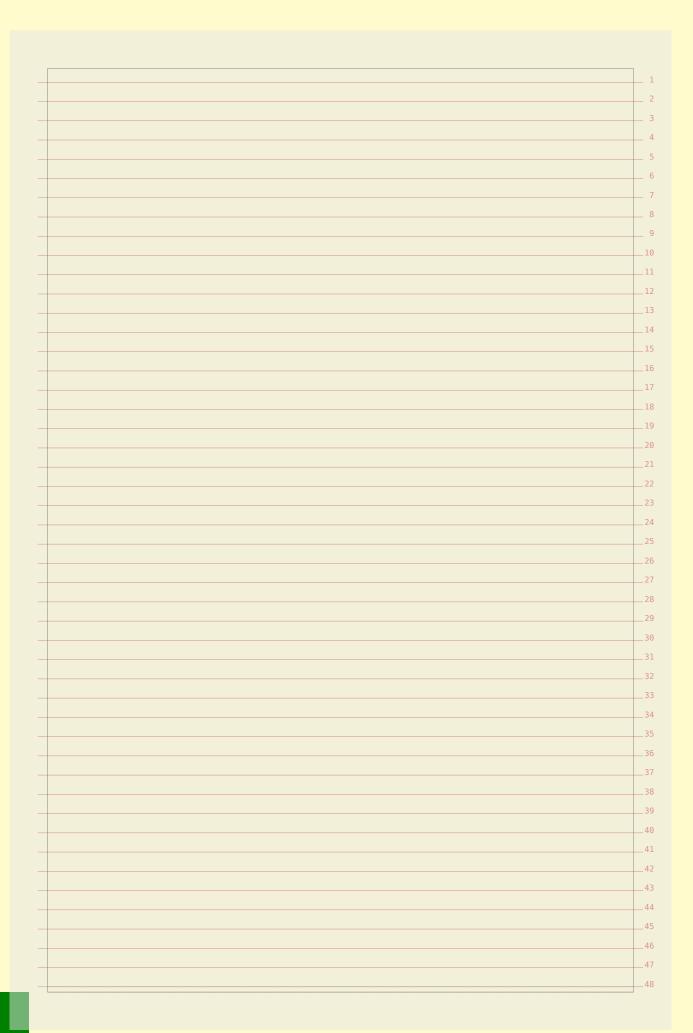


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			ld do the job in combination with the grid	
_		-	mechanisms like tables and figures.	7
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	•		ablishers however love grids so we do need	
-	•	•	ex layouts are involved in a later stage of	
		-	abandoned. This manual uses the grid but	
_	•	•	e are better ways to make your document	
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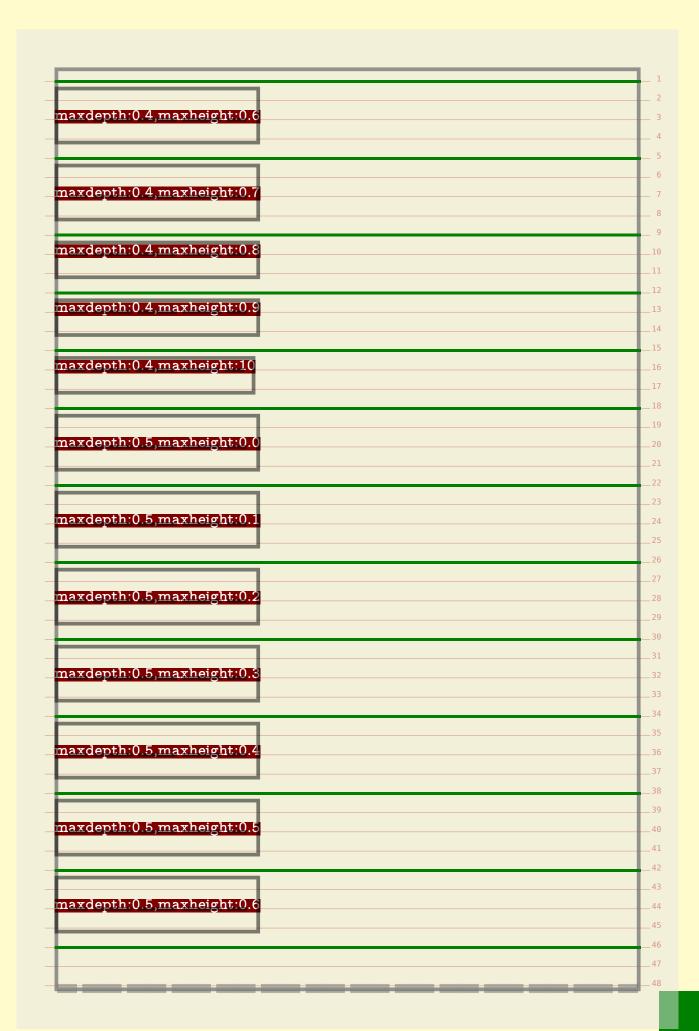
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\bfb \hskip2cm	none \par	
\bfd \hskip6cm	none \par	
\bf	test \par	
\bfb \hskip2cm		
\bfd \hskip6cm	test \par	
\bf	grid \par	
\bfb \hskip2cm	grid \par	
\bfd \hskip6cm	grid \par	
\bf	\strut strut \par	
\bfb \hskip2cm	\strut strut \par	
\bfd \hskip6cm		
\bfb \hskip2cm \setstrut \bfd \hskip6cm \setstrut		
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none est test test grid grid grid trut strut strut setstrut setstrut setstrut setstrut setstrut	his is j	ust a line to start with but next we show what method normal does
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test test grid grid grid strut strut strut setstrut setstrut setstrut		
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grid grid grid strut strut strut setstrut setstrut setstrut		test
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<u> </u>		setstrut
And here we end the demo.		<u> </u>
	And here	e we end the demo.
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	And here	e we end the demo.
	nd here	e we end the demo.

This is itself a list to the	
one	t with but next we show what method strict does.
none	
	none
	110110
est	
test	
	
	test
grid	
5	
grid	
grid	
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	grid
strut	
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	strut
setstrut	
	setstrut
and here we end the der	no.
and here we cha the der	

Γhis is į none	just a line to star	t with but next we show what method tolerant does.
	none	
		none
test		
CDU	test	
		test
ori d		
grid		
	grid	
	0	
		grid
stru	ıt.	
D O I G	strut	
		strut
	gotatrut	
	setstrut	
		setstrut
		<u> </u>
And her	re we end the den	10.

none	ust a line to start	with but next we show what method top does.	
TOTIE	none		
toat		none	
test	test		
		test	
grid			
	grid	grid	
		5-1-4	
stru			
	strut	strut	
	setstrut	Bulut	
	possulas		
		setstrut	
۸ ــ ما ام مــ		<u>'</u>	
And ner	e we end the demo).	

This is	just a line to start v	with but next we show what method bottom does.
none		
	none	
		none
test		
	test	
		test
		(GD)
gric		
<u> </u>	grid	
		ani d
		grid
stru	ıt.	
	strut	
	P	
		strut
	setstrut	
		setstrut
And he	re we end the demo	

· ·	start with but next we show what method both does.	
none none		
110116	none	
test		
test	.	
grid	test	
grid		
	grid	
strut		
strut	mtm::t	
setstrut	strut	
bereriar	setstrut	
And here we end the		
ilia licic vvc clia viic	dollio.	

11 (g method "broad"	
l'his is just a line to s ione	start with but next we show what method broad does.	
none		
		
	none	
test		
test		
	+ o.a.t	
	test	
grid		
5		
grid		
	grid	
	grid	
strut		
strut		
	strut	
1		
setstrut		
	setstrut	
And here we end the	demo.	

GI	id snapping method '	nt"
'his is j	ust a line to start with bu	t next we show what method fit does.
one		
	none	
	n	one
•		
est		
	test	
	t€	est
grid		
	grid	
	g:	rid
tru	†.	
or a	strut	
	·	
	ST	rut
	setstrut	
	Poulurau	
		+ a + m + +
	Se	etstrut
nd her	e we end the demo.	
1101	o vvo ona viio aonio.	

his is just a line to sta	rt with but next we show what method first does.
one	
none	
-	none
est	
test	test
grid	
grid	
	grid
strut	0
strut	
	strut
setstrut	a o t a t m = t
	setstrut
nd here we end the de	mo.

Thig ig ii	ist a line to start	with but next we show what method last does.	
none	ibu a iiiic vo buai u	WINT DUVINCE WE SHOW WITH THOUSE TUBB COOK.	
	none		
L L		none	
test			
	test	test	
grid			
5114	grid		
		grid	
strut	t	G	
	strut		
	1	strut	
	setstrut	setstrut	
		seistrut	
And here	e we end the demo		
And here	e we end the demo		
And here	e we end the demo		
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And here	e we end the demo		
And here	e we end the demo		
And here	e we end the demo		
And here	e we end the demo		

jus heshe to start	with the stew what method high does. grid strut setstrut
s t.rijt .setstrijt	st.riit.
701 Ct Optimize at	- Setstrut
	<u>'</u>
and here we end the demo	

This is in	ıst a line to start	with but next we show what method one does.	
none	abo a lillo oo boal o	Will but how we blieve what movined the door.	
	none		
		none	
test			
	test		
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grid			
	grid		
		grid	
strut			
	strut	and annual b	
		strut	
	setstrut		
		setstrut	
And here	e we end the demo		
and here	e we end the demo	J.	

none is ju	is hohe to start t	with but next we show what method low does.	
test	test	none	
		test	
grid		grid	
stru	tstrut		
		strut	
	setstrut		
And here	e we end the demo	setstrut	

	g method "none"	
	tout military at an unbat most bad and	- d
tage we end the	tart with the story what method non demo.	le does.

L.10 GIIU SIIC	apping method "line"	
Γhis is just a lin	e to start with but next we show what method line does.	
none		
none	9	
	none	
+ +		
test		
test		
	test	
grid		
grid		
	grid	
	grid	
strut		
stru	t	
· · · · · · · · · · · · · · · · · · ·		
	strut	
	pordo	
sets	crut	
	setstrut	

Chic ic iı	ist a line to start	with but next we show what method strut does.	
none	ist a lilic to start	With Date Hear we show what intelled but a does.	
	none		
		none	
test			
	test		
		test	
grid			
	grid		
	L	grid	
stru			
	strut	m+m1+	
		strut	
	setstrut	setstrut	
And here	e we end the demo	D	_

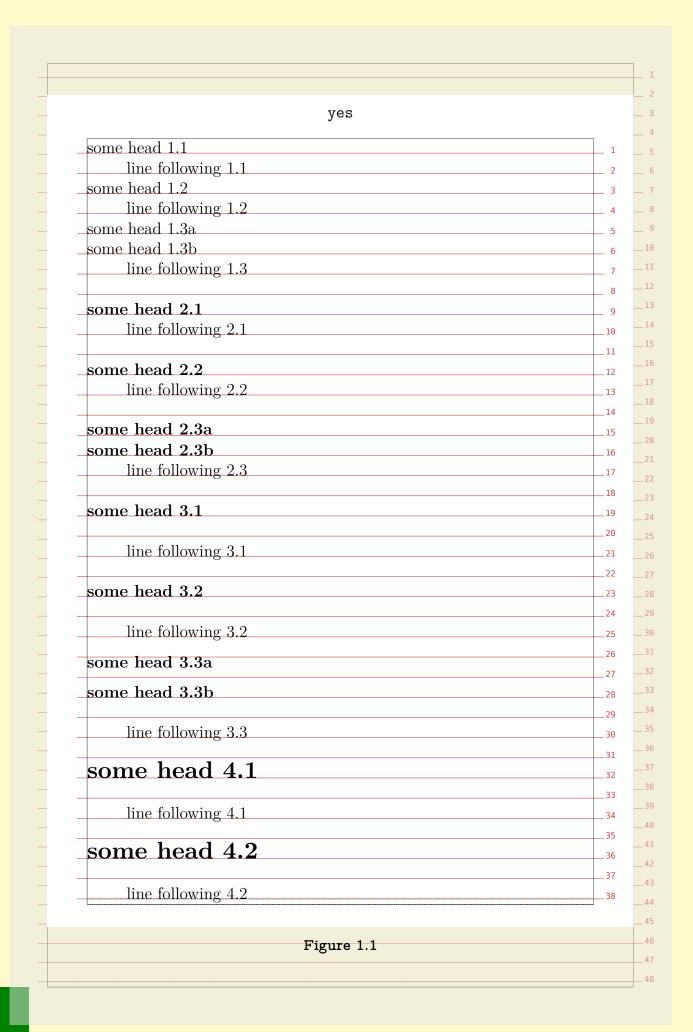
'hig ig i	ust a ling to star	t with but next we show what method how does
954	teste	t with but next we show what method box does.
) ·-	grid	grid
stru	t_{strut}	
	setstrut	strut
	bereriar	
		setstrut
And her	e we end the den	no.

	rid snapping m		
Γhis is j	ust a line to start	with but next we show what method min does.	
one			
	none	none	
test		110116	
	test		
		test	
grid			
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·+ · · · ·	-	grid	
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	strut	strut	
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	peubur au	setstrut	
\nd hor	e we end the demo		
ana nere	e we ena the demo		
	o wo ona ono aom	0	
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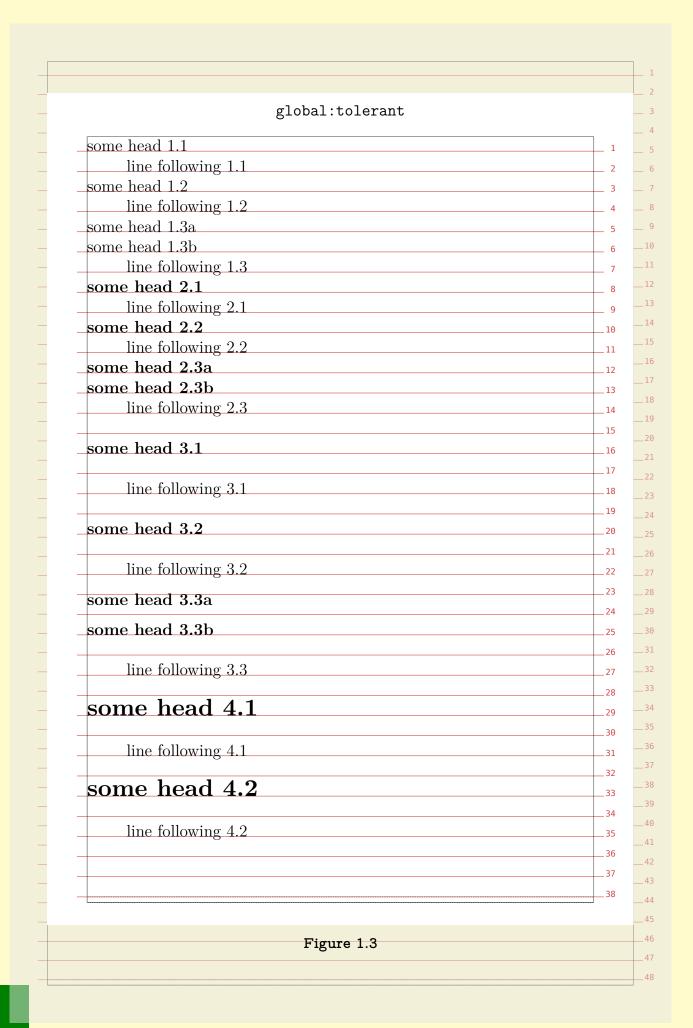
This is j	ust a line to star	t with but next we show what method max does.	
none			
	none	none	
test		110110	
	test		
		test	
grid			
	grid		
		grid	
	_	9	
stru	t		
	strut		
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		setstrut	
۸ا ا] +]]	I	
And nere	e we end the den	no.	

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none test test grid grid grid strut strut strut strut setstrut setstrut setstrut setstrut	
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<u>'</u>	
<u>'</u>	
And here we end the demo.	

•		dern the bold style has larger heights and depth	
_	•	0.1pt can force the snapper to add a line. The	ne
examples use			- 1
		rmally takes one keyword that refers to the locate the the locate the snapped again. This is because the locate	
		eight. Historically the local snapper is the defau	
		ing by prefixing with the global keyword. Th	
•	0 11	you can control snapping:	
		J	
(nothing)	local snapping plus	s global snapping	
ocal	local snapping plus		
00		cf. font style plus global snapping	
ocal:foo	local foo snapping	cf. font style plus global snapping	
lobal	global snapping		_
global:foo	global foo snappin	ug	
\bf		none \par	
\bfb \hs	kip2cm	none \par	
\bfd \hs	rip6cm	none \par	
\bf		test \par	
\bfb \hs	kip2cm	test \par	
\bfd \hs	kip6cm	test \par	_
\bf		grid \par	
\bfb \hs		grid \par	
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\bf		\strut strut \par	
\bfb \hs	•	\strut strut \par	
\bfd \hs	•	\strut strut \par	
	•	\strut setstrut \par \strut setstrut \par	
(DIG (IIS	ribocm /serstint	\struc secstruc \par	



tolerant	
some head 1.1	
line following 1.1	
some head 1.2	
line following 1.2	
some head 1.3a	
some head 1.3b	
line following 1.3	
some head 2.1	
line following 2.1	
some head 2.2	
line following 2.2	
some head 2.3a	
some head 2.3b	
line following 2.3	
some head 3.1	
line following 3.1	
some head 3.2	
line following 3.2	
rama haad 2 2a	
some head 3.3a	
some head 3.3b	
line following 3.3	
1 1 4 4	
some head 4.1	
1. (1) . 44	
line following 4.1	
some head 4.2	
Sume neau 4.4	
1: f - 11 : 4 . O	
line following 4.2	



	shing applications the grid is pretty dominant in defining layouts
On the other ha	nd, $T_{\hbox{\scriptsize E}}X$ is pretty good defining layouts in terms of relative
dimensions. This	means that mapping a desk top publishing layout into its TEX
(or ConT _F Xt) co	unterpart takes some effort. For what it's worth, personally l
	nat much, specially not in complex documents, unless one makes
•	ents are suitable sized for the grid used.
	to deal with vertical grids, but also with horizontal ones. Here
•	second category. When implementing designs, it is best first to
	mal page layout areas. For most documents these are sufficient
•	we need a more detailed approach.
	th grids, you need to make sure that grid snapping is turned or
- •	rn on the grid so that you can see where things end up. When
a horizontal grid	is defined, gray vertical rules show their boundaries.
\setuplayout	[grid=yes] \showgrid
The \setuplayou	t command has a few settings that have to do with so called
- •	These are in no sense related to multi-column typesetting and
•	n placing text on specific locations.
only play a rolo is	r placing voit on up como to cautome.
\setuplayout	
- •	ton 00-10-t
	tance=12pt,
columns=3	
7.7	
-	voutcolumnoffset for positioning relative to the left boundary
	xt:
of the running te	
	tcolumnoffset{2}{\red Text positioned in column 2!}
	tcolumnoffset{2}{\red Text positioned in column 2!}
\hskip\layou	tcolumnoffset{2}{\red Text positioned in column 2!} Text positioned in column 2!
\hskip\layou This mechanism	tcolumnoffset{2}{\red Text positioned in column 2!} Text positioned in column 2! is actually meant to ease the definition of complicated (title)
\hskip\layou This mechanism	tcolumnoffset{2}{\red Text positioned in column 2!} Text positioned in column 2!
\hskip\layou This mechanism pages where man	tcolumnoffset{2}{\red Text positioned in column 2!} Text positioned in column 2! is actually meant to ease the definition of complicated (title)
\hskip\layou This mechanism pages where man	Text positioned in column 2! is actually meant to ease the definition of complicated (title) y text and graphic elements need to be anchored at well defined
\hskip\layou This mechanism pages where man places. The layer	Text positioned in column 2! is actually meant to ease the definition of complicated (title) y text and graphic elements need to be anchored at well defined mechanism is the most natural candidate for this.
\hskip\layou This mechanism pages where man places. The layer	Text positioned in column 2! is actually meant to ease the definition of complicated (title) y text and graphic elements need to be anchored at well defined
\hskip\layou This mechanism pages where man places. The layer \definelayer	Text positioned in column 2! is actually meant to ease the definition of complicated (title) y text and graphic elements need to be anchored at well defined mechanism is the most natural candidate for this. [text] \setupbackgrounds [text] [background=text]
\hskip\layou This mechanism pages where many places. The layer \definelayer When anchoring	Text positioned in column 2! is actually meant to ease the definition of complicated (title) y text and graphic elements need to be anchored at well defined mechanism is the most natural candidate for this. [text] \setupbackgrounds [text] [background=text] elements on a layer, you can specify absolute positions using the
\hskip\layou This mechanism pages where man places. The layer \definelayer When anchoring of x and y keys but g	Text positioned in column 2! is actually meant to ease the definition of complicated (title) y text and graphic elements need to be anchored at well defined mechanism is the most natural candidate for this. [text] \setupbackgrounds [text] [background=text] elements on a layer, you can specify absolute positions using the grid based positioning is possible with the column and line keys
\hskip\layou This mechanism pages where man; places. The layer \definelayer When anchoring of a and y keys but g	Text positioned in column 2! is actually meant to ease the definition of complicated (title) y text and graphic elements need to be anchored at well defined mechanism is the most natural candidate for this. [text] \setupbackgrounds [text] [background=text] elements on a layer, you can specify absolute positions using the
\hskip\layou This mechanism pages where man; places. The layer \definelayer When anchoring of the control of t	Text positioned in column 2! is actually meant to ease the definition of complicated (title) y text and graphic elements need to be anchored at well defined mechanism is the most natural candidate for this. [text] \setupbackgrounds [text] [background=text] elements on a layer, you can specify absolute positions using the grid based positioning is possible with the column and line keys grid as location specifier.
\hskip\layou This mechanism pages where man; places. The layer \definelayer When anchoring of the control of th	Text positioned in column 2! is actually meant to ease the definition of complicated (title) y text and graphic elements need to be anchored at well defined mechanism is the most natural candidate for this. [text] \setupbackgrounds [text] [background=text] elements on a layer, you can specify absolute positions using the grid based positioning is possible with the column and line keys grid as location specifier. xt] [column=1,line=48,location=grid] {these are not}
\hskip\layou This mechanism pages where many places. The layer \definelayer When anchoring or x and y keys but g We need to pass g \setlayer[te]	Text positioned in column 2! is actually meant to ease the definition of complicated (title) y text and graphic elements need to be anchored at well defined mechanism is the most natural candidate for this. [text] \setupbackgrounds [text] [background=text] elements on a layer, you can specify absolute positions using the grid based positioning is possible with the column and line keys grid as location specifier. xt] [column=1,line=48,location=grid] {these are not} xt] [column=2,line=47,location=grid] {real columns}
\hskip\layou This mechanism pages where many places. The layer \definelayer When anchoring or x and y keys but g We need to pass g \setlayer[te]	Text positioned in column 2! is actually meant to ease the definition of complicated (title) y text and graphic elements need to be anchored at well defined mechanism is the most natural candidate for this. [text] \setupbackgrounds [text] [background=text] elements on a layer, you can specify absolute positions using the grid based positioning is possible with the column and line keys grid as location specifier. xt] [column=1,line=48,location=grid] {these are not}
This mechanism pages where many places. The layer \definelayer When anchoring or x and y keys but y We need to pass y \setlayer[text]	Text positioned in column 2! is actually meant to ease the definition of complicated (title) y text and graphic elements need to be anchored at well defined mechanism is the most natural candidate for this. [text] \setupbackgrounds [text] [background=text] elements on a layer, you can specify absolute positions using the grid based positioning is possible with the column and line keys grid as location specifier. xt] [column=1,line=48,location=grid] {these are not} xt] [column=2,line=47,location=grid] {real columns}
\hskip\layou This mechanism pages where many places. The layer \definelayer When anchoring or x and y keys but a keys but	Text positioned in column 2! is actually meant to ease the definition of complicated (title) y text and graphic elements need to be anchored at well defined mechanism is the most natural candidate for this. [text] \setupbackgrounds [text] [background=text] elements on a layer, you can specify absolute positions using the grid based positioning is possible with the column and line keys grid as location specifier. xt] [column=1,line=48,location=grid] {these are not} xt] [column=2,line=47,location=grid] {real columns}

\ .3 F3 F	
•	[column=1,line=32,location=grid]
	size\layoutcolumnwidth
\style[regula	r:3]{nitty\par gritty}}}
\setlayer [text] [[column=2,line=37,location=grid]
•	size\layoutcolumnwidth
	r:3]{nitty\par gritty}}}
\+1 [++] [
•	column=3,line=42,location=grid] \hsize\layoutcolumnwidth
	r:3]{nitty\par gritty}}}
\scyle[regula	II.OJ (HITCEY \par gilety)))
The data that goes into	the layer is collected and flushed as soon as TFX builds
	sociated to the layer is then ready for new data (for the
next page).	boolavoa vo viio layor ib viioir roday for iiow aava (for viio
1 0	n see that the baselines of the boxes (here visualized by
	the specified lines. You can use the T _F X box commands
_	ter to specify where the main baseline of the box content
	or bottom line, or centered).
is positioned (at the top	of solution into, or contorca,
\setlayer	
[text]	
	8,x=\layoutcolumnwidth,location=left]
{\framed	Tayoutcolumnwiden, location lore,
- 1	color,backgroundcolor=red,
_	yle=regular:2,foregroundcolor=white,
frame=off]	J 10 108 alar 12, 101 08 10 ama 0 1 01 "m100",
{Why ain't I	framed?}}
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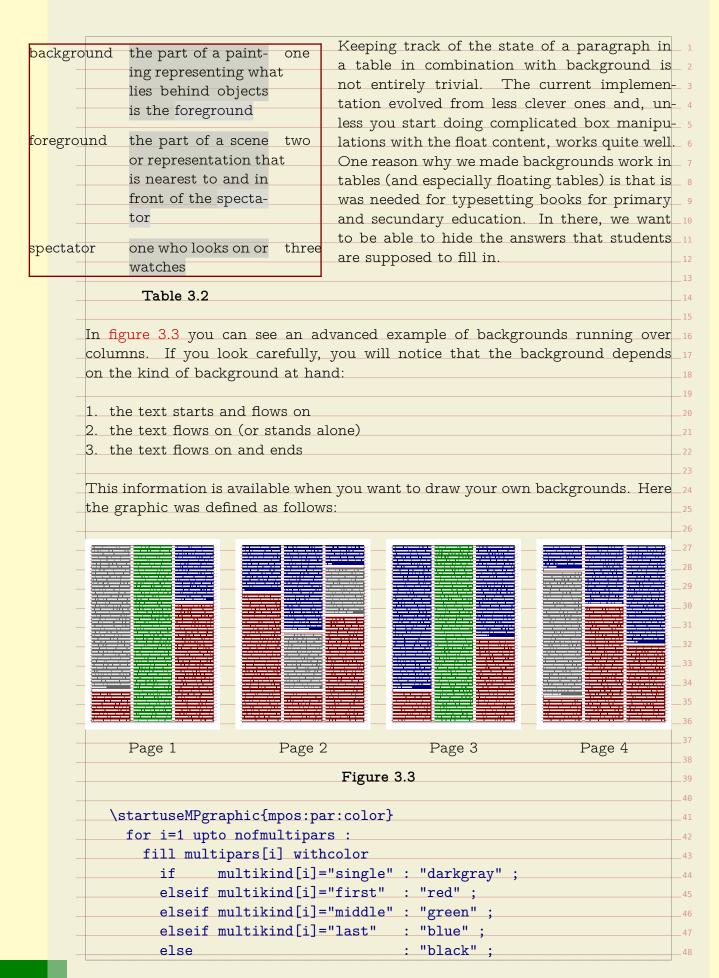
layoutlines (layoutcolumnwidth	ext at the right point of positive point of positive points of positive points and the counter of points at has been at his been at has been at his be	the fithe continuing. It is, we have a sumber of continuity of continui	olumn. The olumns ridlines e column nuite a while ds myself. nt) styles:	e location s	specifier ariables:
Alayoutcolumns Alayoutcolumns Alayoutcolumnwidth Alayoutcolumnoffset{n} This is typically a feature the about. It's probably because in the examples before we use the define font [regular:1] Adefine font [regular:2] Adefine font [regular:3]	point of posiceudo columns counter no counter no dimension we had has been to be I never have sed some preconditional lengular*de [Regular*de lengular*de lengular	itioning. s, we have a number of cumber of g vidth of one cosition of cumber for que there for que	olumns ridlines column column n uite a whil ds myself. nt) styles:	couple of va	ariables:
When we have set up the pseudayoutcolumns Alayoutlines Alayoutcolumnwidth Alayoutcolumnoffset{n} This is typically a feature the bout. It's probably because the examples before we up the examples before we up the define font [regular:1] Adefine font [regular:2] Adefine font [regular:3]	counter no counter no counter no counter no dimension we macro possible I never have sed some present [Regular*de [Regular*de [Regular*de [Regular*de [Regular*de]]	s, we have a number of c number of g vidth of one position of c there for que to use gri edefined (for efault sa	olumns ridlines column column n uite a whil ds myself. nt) styles:	-	I forget
Alayoutlines Alayoutcolumnwidth Alayoutcolumnoffset{n} This is typically a feature the about. It's probably because the examples before we undefine font [regular:1] Adefine font [regular:2] Adefine font [regular:3]	counter n' dimension w macro p nat has been e I never have sed some pre [Regular*de [Regular*de	there for que to use griedefined (for efault sage fault	ridlines column column n uite a whil ds myself. nt) styles: 1] 2]	le but that	I forget
Alayoutlines Alayoutcolumnwidth Alayoutcolumnoffset{n} This is typically a feature the about. It's probably because the examples before we undefine font [regular:1] Adefine font [regular:2] Adefine font [regular:3]	counter n' dimension w macro p nat has been e I never have sed some pre [Regular*de [Regular*de	there for que to use griedefined (for efault sage fault	ridlines column column n uite a whil ds myself. nt) styles: 1] 2]	le but that	I forget
\layoutcolumnwidth \(\)\ \text{Alayoutcolumnoffset{n}} \(\)\ This is typically a feature the bout. It's probably because n the examples before we use \(\)\ \definefont[regular:1] \(\)\ \definefont[regular:2] \(\)\	dimension wat has been sed some pre [Regular*de] [Regular*de]	vidth of one consition of consi	e column column n uite a whil ds myself. nt) styles: 1] 2]	le but that	I forget
This is typically a feature the about. It's probably because in the examples before we undefine font [regular:1] \define font [regular:2] \define font [regular:3]	nacro p nat has been e I never have sed some pre [Regular*de [Regular*de	there for que to use griedefined (for efault same fault	column n uite a whil ds myself. nt) styles: 1] 2]	le but that	I forget
This is typically a feature the bout. It's probably because in the examples before we undefine font [regular:1] \define font [regular:2] \define font [regular:3]	nat has been sed some pre [Regular*de [Regular*de [Regular*de [Regular*de]	there for que to use griedefined (for efault same fault	uite a whil ds myself. nt) styles: 1] 2]	le but that	I forget
about. It's probably because in the examples before we u \definefont[regular:1] \definefont[regular:2] \definefont[regular:3]	e I never have sed some pre [Regular*de [Regular*de	e to use griedefined (for efault sa sefault se sefault sa sefault se se sefault se sefault se se se se se se se se se se se se se	ds myself. nt) styles: 1] 2]	le but that	I forget
about. It's probably because in the examples before we u \definefont[regular:1] \definefont[regular:2] \definefont[regular:3]	e I never have sed some pre [Regular*de [Regular*de	e to use griedefined (for efault sa sefault se sefault sa sefault se se sefault se sefault se se se se se se se se se se se se se	ds myself. nt) styles: 1] 2]	le but that	
n the examples before we u \definefont[regular:1] \definefont[regular:2] \definefont[regular:3]	sed some pre [Regular*de [Regular*de	efault sa efault sa efault sa	nt) styles: 1] 2] 3]		
\definefont[regular:1] \definefont[regular:2] \definefont[regular:3]	[Regular*de [Regular*de [Regular*de	efault sa efault sa :	1] 2] 3]		
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\definefont[regular:2] \definefont[regular:3]	[Regular*de [Regular*de	efault sa s efault sa s	2] 3]		
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_		. 29)
		. 30)
		.31	
-		. 32	
_		. 33	3
		. 34	1
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_		.37	7
		.38	3
		. 39	
_		. 40)
		41	L
		.42)
		.43	
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		. 46	
-		47	
		.48	3

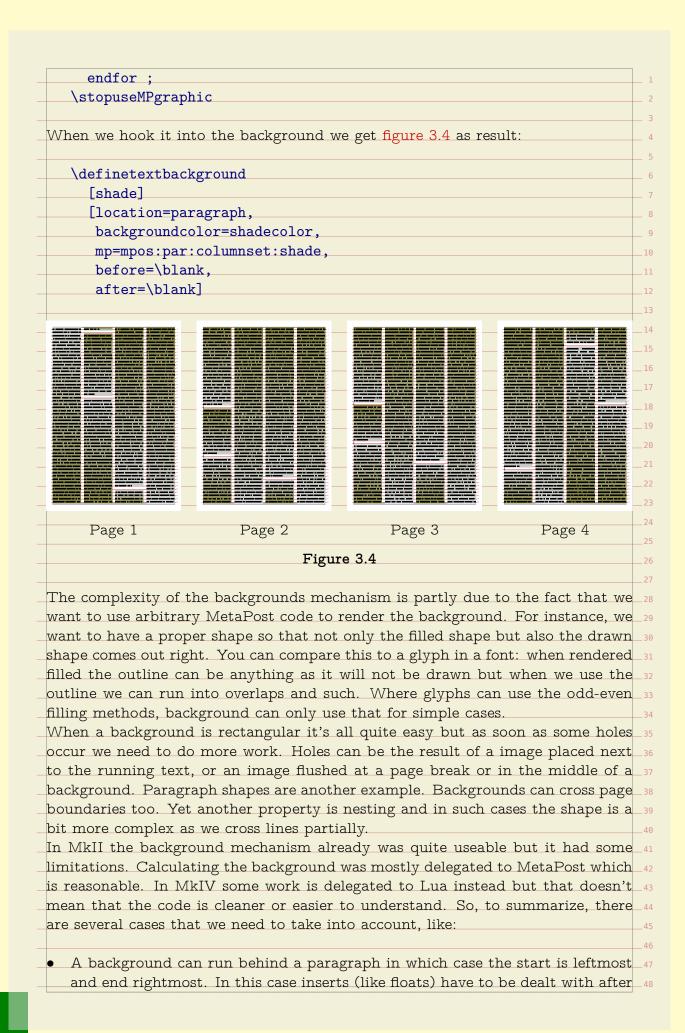
A rather common way to draw attention to a passage, is to add a background. In this chapter we will therefore discuss how to enhance your document with those colorful areas that either or not follow the shape of your paragraph. Be warned: this chapter has so many backgrounds that you might start to dislike them. In the previous paragraph we demonstrated two important features of the background handler: you can nest backgrounds and backgrounds can be tight or wide. Features like this will often be used in combination with others, like spe- 8 cial section headers. The raw coding of the previous paragraph is therefore not representative. \starttextbackground[intro] A rather common way to draw attention to a passage, is to add a background. In this chapter we will therefore discuss how to enhance 14 document with \starttextbackground [subintro] those colorful areas that either or not follow the shape of your paragraph. \stoptextbackground\ Be warned: this chapter has so many backgrounds that you might start to dislike them. \stoptextbackground The outer background commands is defined as follows: \definetextbackground [intro] [backgroundcolor=infogray, backgroundoffset=.25cm, frame=off. location=paragraph, color=red Here, the paragraph option ensures that the background covers the width of the body text. The inner background is defined in a similar way, but this time we choose text location. \definetextbackground [subintro] [backgroundcolor=textgray, backgroundoffset=0pt, frame=off, location=text, color=bluel In this document we use protruding characters (hanging punctuation) so we've 46 chosen a rather large offset, one that also matches the rest of the page design. Those who are familiar with the way TEX works will probably see what problems 48 can occur with backgrounds like this. What happens for instance when we cross page boundaries, and how will more complicated paragraph shapes be handled? The current implementation tries to handle page breaks and paragraph shapes as good as possible. This works well in normal one–column mode as well as in columns. In this example, the paragraph shape is determined by the graphic placed left of the text. This feature is implemented using the \hangindent and \hangafter primitives, which means that we need to keep track of their state. In addition, we need to handle the indentation directives \leftskip, \rightskip and \parindent. Be-Figure 3.1 cause backgrounds end up in a different background overlay, nesting 11 them is no problem, and it is even possible to move them to the front_12 and back, as we will demonstrate later on. While the mechanism discussed here 13 will always be improved when we find border cases, the fundaments it is built 14 upon are quite stable. \placefigure[left]{}{\externalfigure[detcow][width=2cm]} \starttextbackground [A] In this example, the paragraph shape is determined by the graphic placed left of the text. \starttextbackground [B] This feature is implemented using the \type {\hangindent} and \type {\hangafter} primitives, which means that we need to keep track of their state. In addition, we need to handle the indentation directives \type {\leftskip}, \type {\rightskip} and \type {\parindent}. \stoptextbackground\ Because backgrounds end up in a different background overlay, nesting them is no problem, and it is even possible to move them to the and back, as we will demonstrate later on. While the mechanism discussed here will always be improved when we find border cases, the fundaments it is built upon are quite stable. \stoptextbackground The backgrounds were defined as: \definetextbackground [A] [backgroundcolor=infogray] 45 \definetextbackground [B] [backgroundcolor=textgray] 47

\setuptextbackground

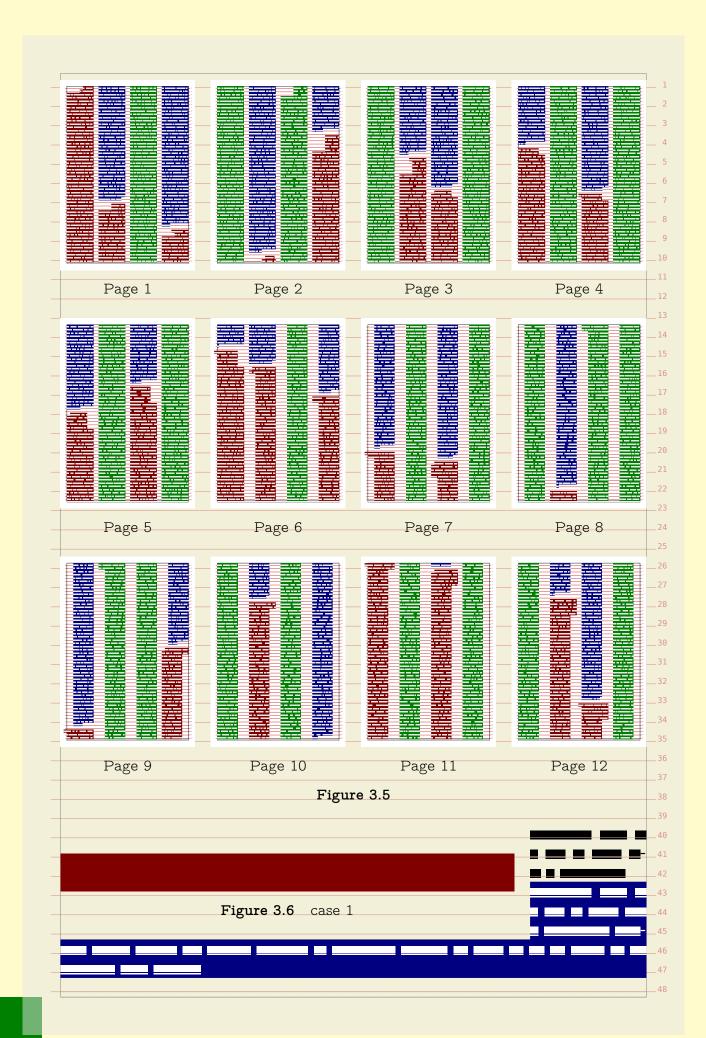
	ckgroundoffs fset=Opt,	* *	
	ame=off,		
100	cation=text]		
		ample, the paragraph shape is determined by the tof the text.	e graphic
will alway upon are This time	them is not as we will do you be improved quite stable.	Agrounds end up in a different background overlate problem, and it is even possible to move them to emonstrate later on. While the mechanism discussed when we find border cases, the fundaments in the inner background a few levels up. By default the second of the contract of the contrac	y, nesting the front assed here it is built hey reside
		by using a non transparent color, we can hide into ound [B] [backgroundcolor=darkgray,level=+2]	
backgrour foregroun	is the for	of a painting representing what lies behind object reground of a scene or representation that is nearest to an of the spectator	
1010610411	in front (of the spectator	
spectator		looks on or watches	three
spectator This is co	one who	looks on or watches to normal running text. A table like this is in a As floating body (see table 3.1) it can virtuall frame to make clear where the boundaries are. the part of a painting representing what one	way still
spectator This is co	one who oded similar to ne text flow. re. We add a	looks on or watches to normal running text. A table like this is in a As floating body (see table 3.1) it can virtuall frame to make clear where the boundaries are.	way still
spectator This is co	one who oded similar to ne text flow. re. We add a	looks on or watches to normal running text. A table like this is in a As floating body (see table 3.1) it can virtuall frame to make clear where the boundaries are. the part of a painting representing what one lies behind objects is the foreground the part of a scene or representation two that is nearest to and in front of the	way still
spectator This is co	one who oded similar to ne text flow. re. We add a background foreground	looks on or watches to normal running text. A table like this is in a As floating body (see table 3.1) it can virtuall frame to make clear where the boundaries are. the part of a painting representing what one lies behind objects is the foreground the part of a scene or representation two that is nearest to and in front of the spectator one who looks on or watches three	way still
spectator This is co	one who oded similar to ne text flow. re. We add a background foreground	looks on or watches to normal running text. A table like this is in a As floating body (see table 3.1) it can virtuall frame to make clear where the boundaries are. the part of a painting representing what one lies behind objects is the foreground the part of a scene or representation two that is nearest to and in front of the spectator	way still

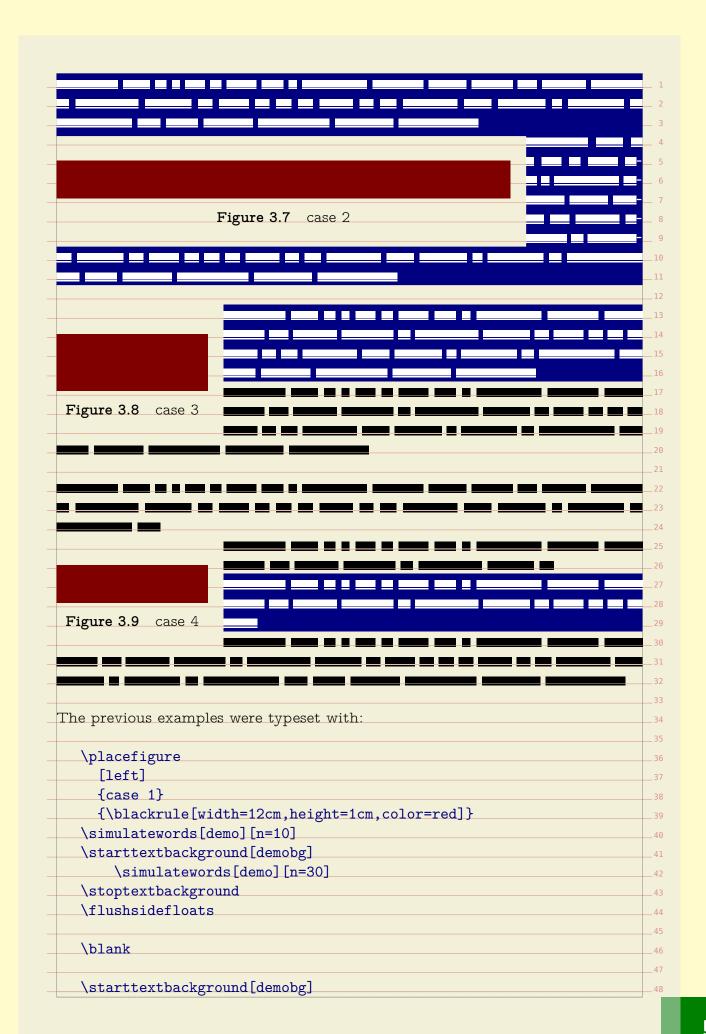


```
fi;
    endfor :
  \stopuseMPgraphic
This graphic is hooked into the background setup by setting the mp variable.
  \definetextbackground
     [shade]
     [location=paragraph,
     mp=mpos:par:color,
     before=\blank,
     after=\blankl
A variant is the following. This time we use a shade:
  \startuseMPgraphic{mpos:par:columnset:shade}
    numeric h;
    for i=1 upto nofmultipars :
      h := bbheight(p);
      if multikind[i] = "single" :
        fill multipars[i] topenlarged -.5h
           withshademethod "linear"
          withshadedirection shadedup
           withcolor boxfillcolor shadedinto .8white;
        fill multipars[i] bottomenlarged -.5h
          withshademethod "linear"
          withshadedirection shadedup
           withcolor .8white shadedinto boxfillcolor;
      elseif multikind[i] = "first" :
         fill multipars[i]
           withshademethod "linear"
           withshadedirection shadedup
           withcolor boxfillcolor shadedinto .8white;
      elseif multikind[i] = "middle" :
         fill multipars[i] topenlarged -.5h
           withshademethod "linear"
           withshadedirection shadedup
           withcolor boxfillcolor shadedinto .8white;
        fill multipars[i] bottomenlarged -.5h
          withshademethod "linear"
           withshadedirection shadedup
           withcolor .8white shadedinto boxfillcolor;
      elseif multikind[i] = "last" :
         fill multipars[i]
          withshademethod "linear"
                                                                        45
          withshadedirection shadedup
          withcolor .8white shadedinto boxfillcolor;
                                                                         47
      fi;
```

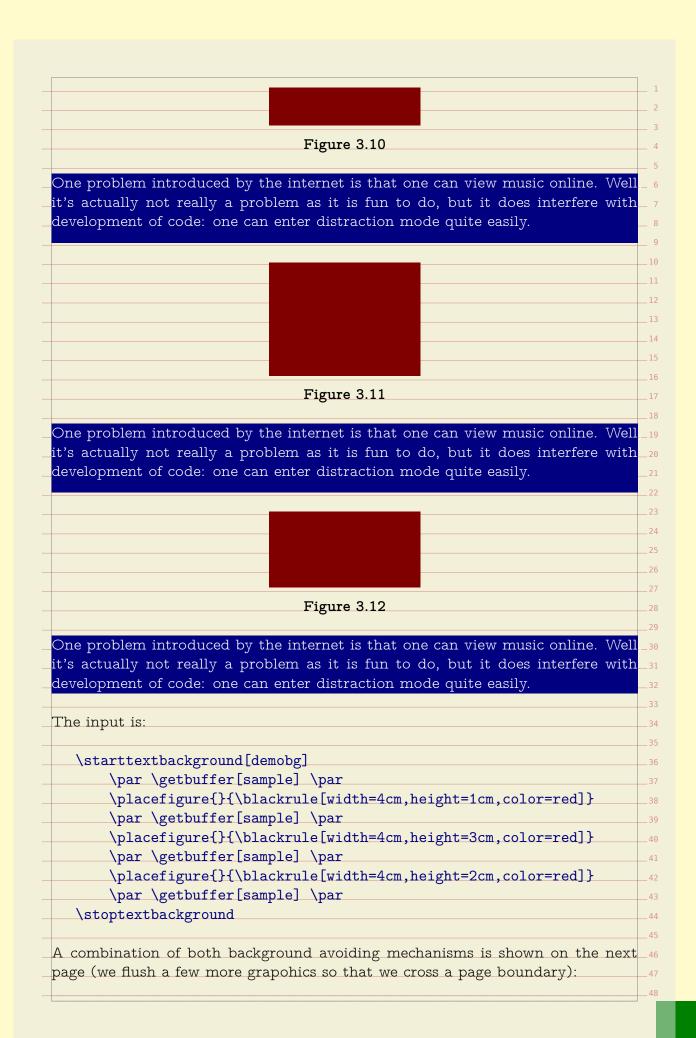


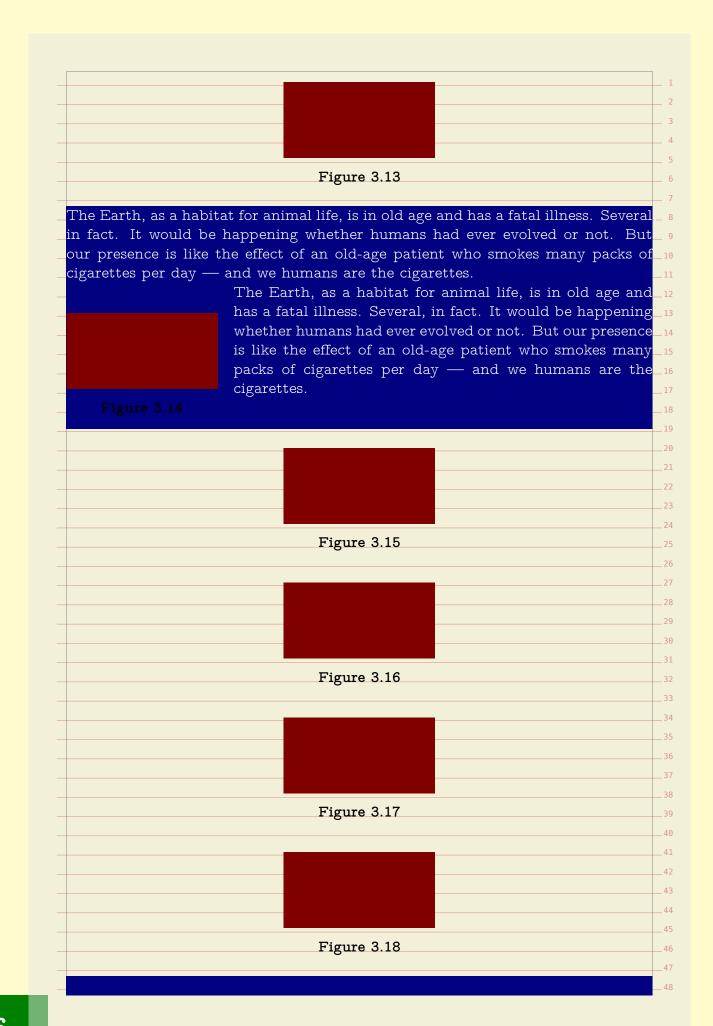
the shape has been calculated. A background can be in-line (the text location variant) in which case we need to follow the paragraph shape, if set. In that case we have a mix of calculating the background shape and afterwards compensating for inserts. A third case is tabulation and tables where we have dedicated regions to deal with. When these float we need to make sure that the backgrounds are adapted to the where they end up. Yet another case is in columns, where we hape multiple regions to deal with. As mentioned, floats need special treatment and they can be part of the page flow but also end up left or right of the text (either or not shifted) but also in the margins, edges, back- or cutspace. Their placement influences the way backgrounds are calculated so additional information needs to travel with them. We distinguish between a paragraph background, which runs between the left and right skip areas and a text background which follows a shape. In figure 3.5 we see a test case with several such shapes. In the case of side floats the following cases occur. Of course multiple such cases can follow each order so in practice we have to deal with an accumulation. As often in T_EX coming up with a solution is not a the problem but interference is. You can cook up a solution for one case that fails in another. Backgrounds fall into this category, as do side floats. In the next pages we will demonstrate a few cases. In practice you can probably always come up with something that works out well, but in an automated workflow (like unattended xml to pdf conversion) you can best play safe. We show some examples on the next pages. 47

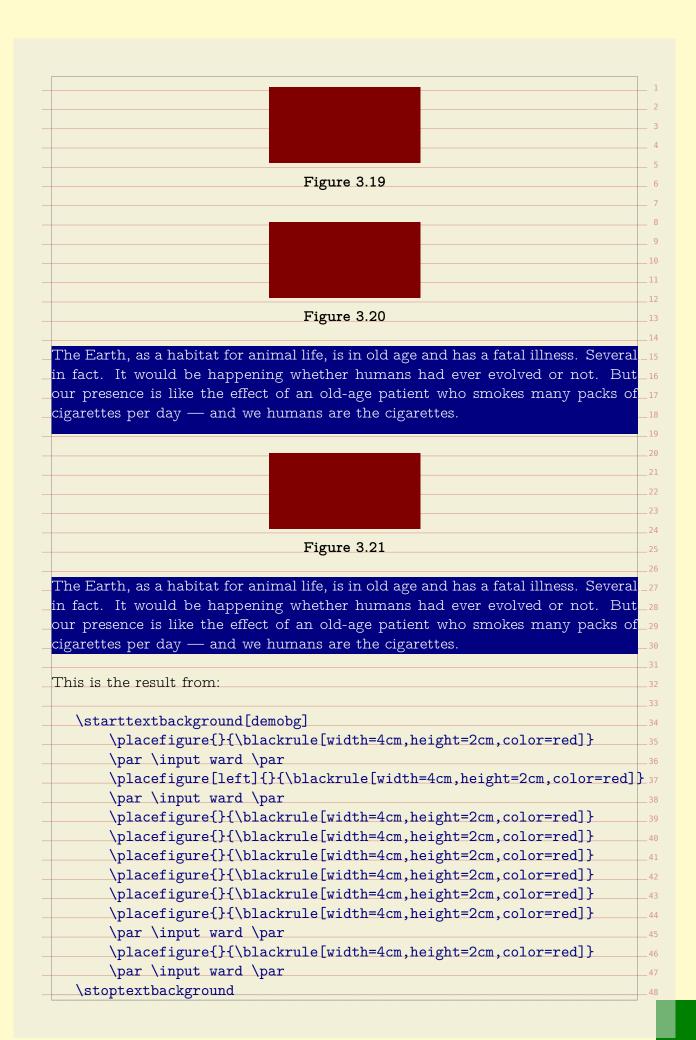




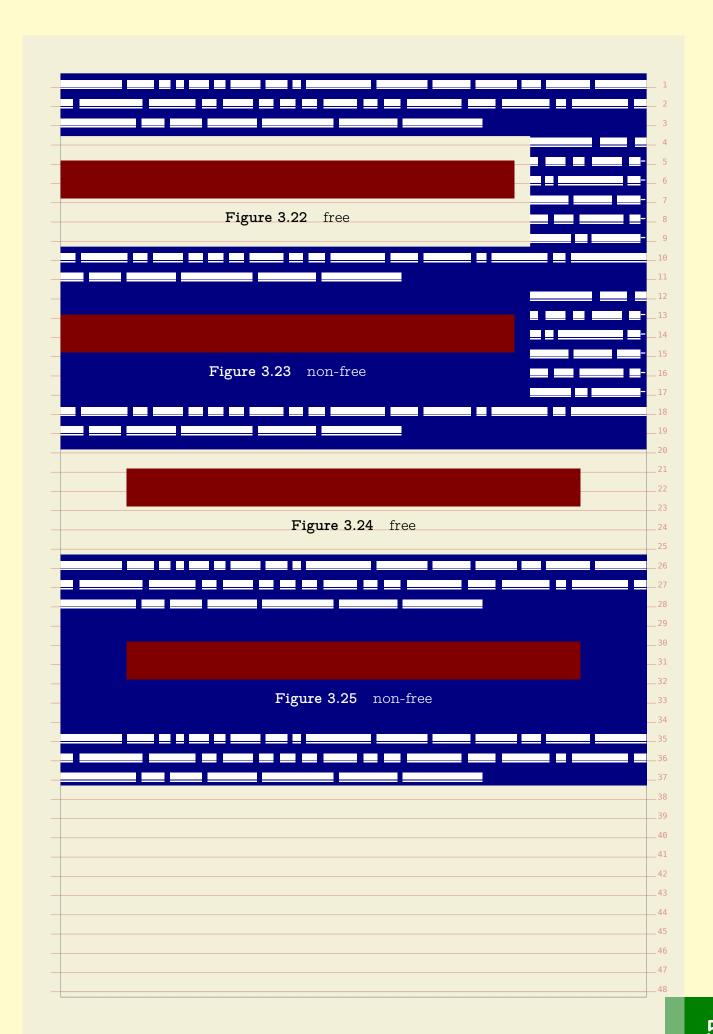
```
\simulatewords[demo][n=40]
       \placefigure
         [left]
         {case 2}
         {\blackrule[width=12cm,height=1cm,color=red]}
       \simulatewords[demo][n=40]
  \stoptextbackground
  \flushsidefloats
  \blank
  \placefigure
     [left]
     {case 3}
     {\blackrule[width=4cm,height=15mm,color=red]}
  \starttextbackground[demobg]
       \simulatewords[demo][n=40]
  \stoptextbackground
  \simulatewords[demo][n=40]
  \flushsidefloats
  \blank
  \simulatewords[demo][n=35]
  \placefigure
     [left]
     {case 4}
     {\blackrule[width=4cm,height=1cm,color=red]}
  \simulatewords[demo][n=20]
  \starttextbackground[demobg]
       \simulatewords[demo][n=25]
  \stoptextbackground
  \simulatewords[demo][n=40]
  \flushsidefloats
  \blank
Regular (page flow) floats are a different story. Here we have the problem that 38
a float might be postpones because there is no room on the current page and
they are moved forward (which is why they're called float). Again we show some 40
examples.
One problem introduced by the internet is that one can view music online. Well
it's actually not really a problem as it is fun to do, but it does interfere with
development of code: one can enter distraction mode quite easily.
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                                                                           47
```

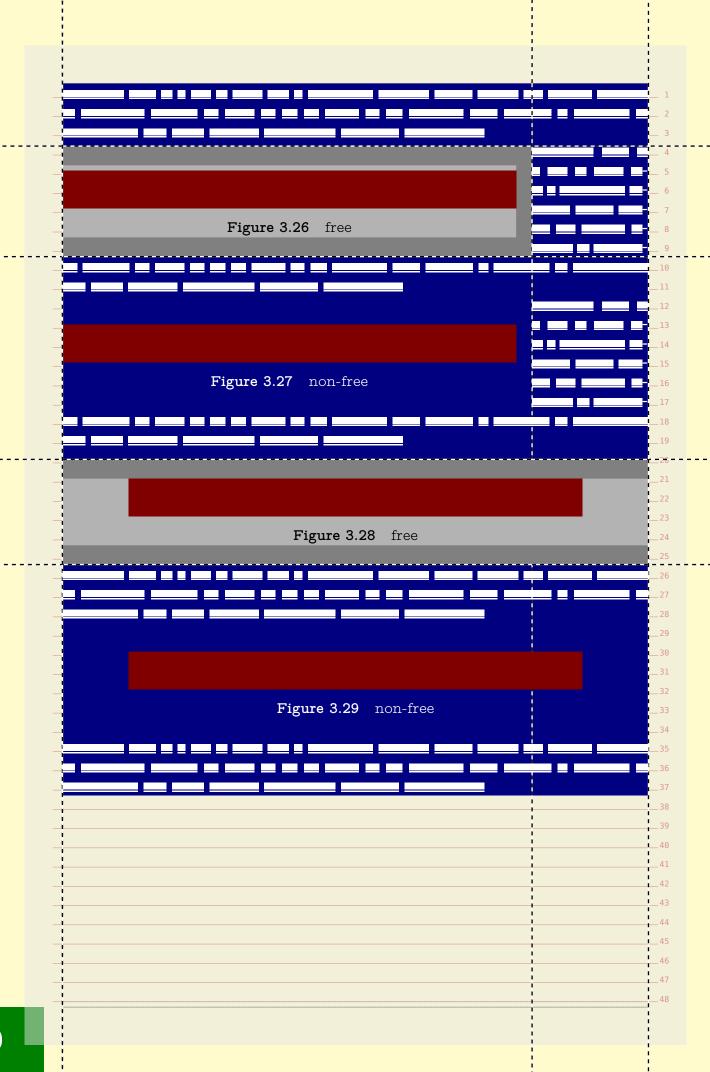




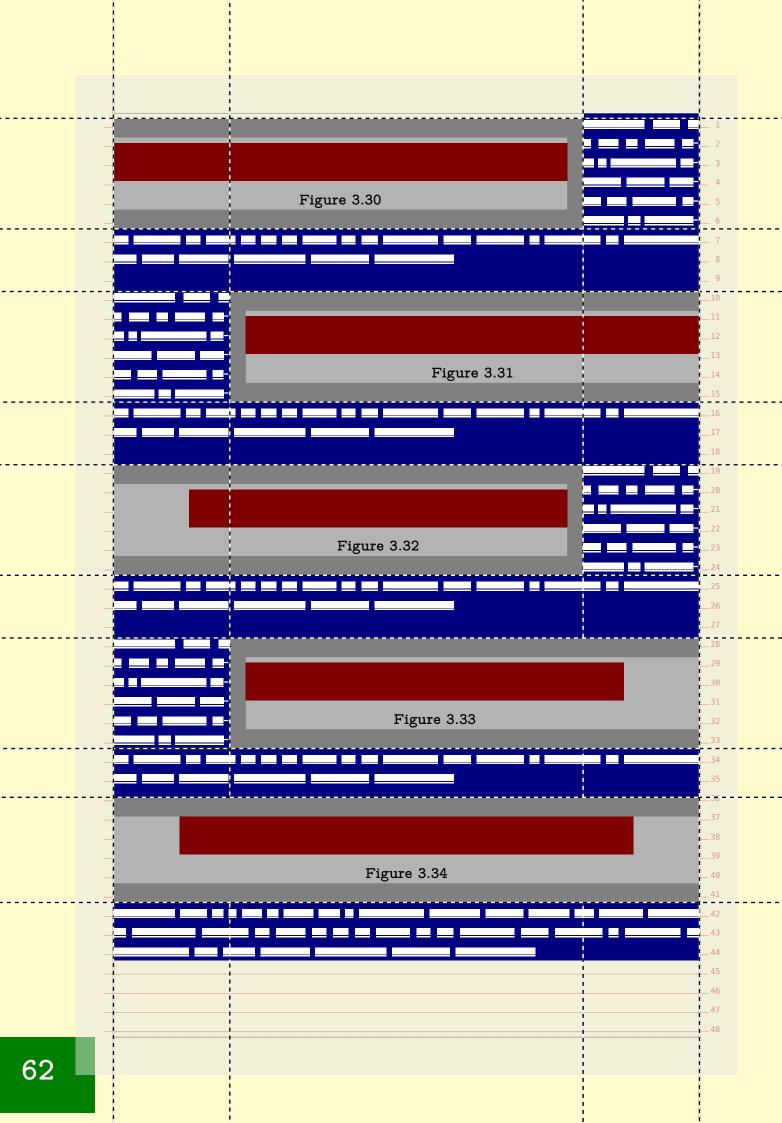


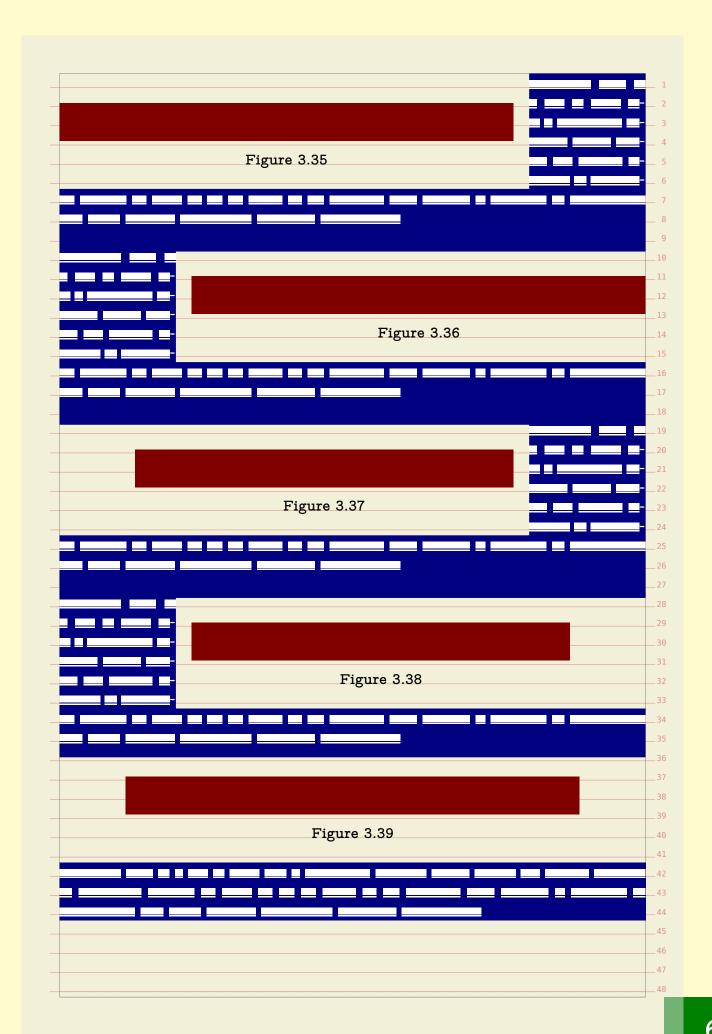
reer	egion parameter.	
\s:	tarttextbackground[demobg]	
	\simulatewords[demo][n=40]	
	\startplacefigure	
	[location=left,	
	title={free}]	
	\blackrule[width=12cm,height=1cm,color=red]	
	\stopplacefigure	
	\simulatewords[demo][n=40]	
	\startplacefigure	
	[location=left,	
	title={non - free},	
	freeregion=no,	
	color=textcolor]	
	\blackrule[width=12cm,height=1cm,color=red]	
	\stopplacefigure \simulatewords[demo][n=40]	
	\startplacefigure	
	<pre>[location=here, title={free}]</pre>	
	\blackrule[width=12cm,height=1cm,color=red]	
	\stopplacefigure	
	\simulatewords[demo][n=40]	
	\startplacefigure	
	[location=here,	
	title={non - free},	
	freeregion=no,	
	color=textcolor	
	\blackrule[width=12cm,height=1cm,color=red]	
	\stopplacefigure	
	\simulatewords[demo][n=40]	
\s	toptextbackground	
,,,	, op 00.100 and 100.100 and 10	
'he n	ext pages show the result, first with some tracing enabled sop that you c	ar
	nat gets freed. This visual effect is enabled with:	
\e:	nabletrackers[floats.freeregion]	
Ve no	w move to the next page.	

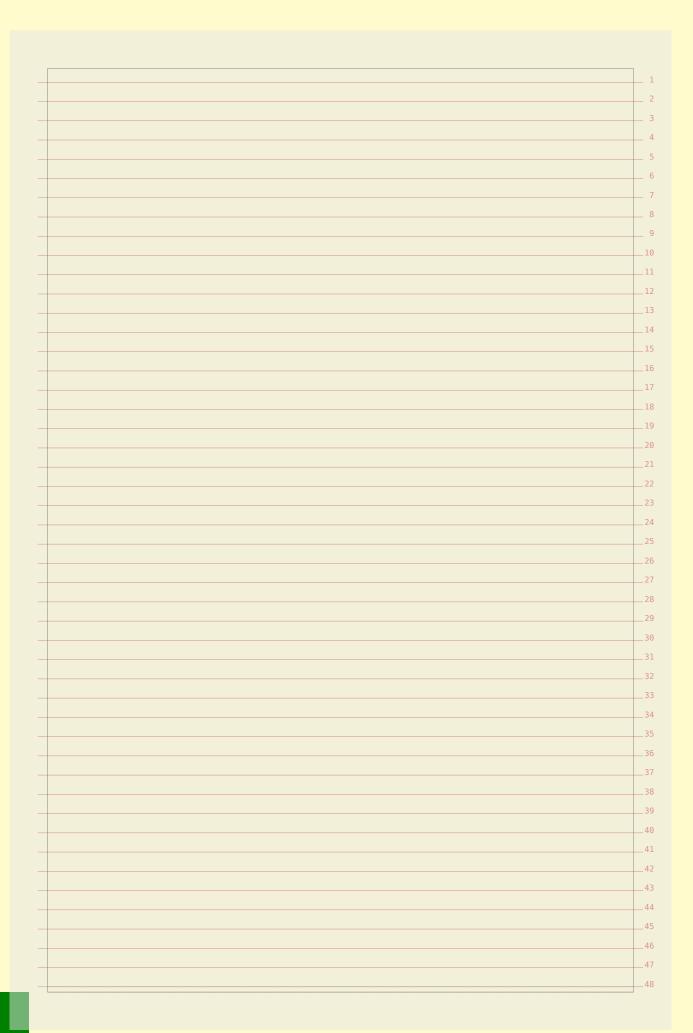




\dofinofloot	
\definefloat	
[demofigureleft]	
[figure]	
[default=left,	
margin=1cm,	
leftmargindistance=2cm, rightmargindistance=2cm]	
rightmargindistance-zcmj	
\definefloat	
[demofigureright]	
[demofigureleft]	
[default=right]	
[deraure-right]	
ombined with the following we get the result on the next pages.	
official with the following we get the result off the flow pages.	
\starttextbackground[demobg]	
\startplacefloat[figure][location=left]	
\blackrule[width=12cm,height=1cm,color=red]	
\stopplacefigure	
\simulatewords[demo][n=40]	
\blank	
\startplacefloat[figure][location=right]	
\blackrule[width=12cm,height=1cm,color=red]	
\stopplacefigure	
\simulatewords[demo][n=40]	
\blank	
\startplacefloat[demofigureleft]	
\blackrule[width=10cm,height=1cm,color=red]	
\stopplacefigure	
\simulatewords[demo][n=40]	
\blank	
\startplacefloat[demofigureright]	
\blackrule[width=10cm,height=1cm,color=red]	
\stopplacefigure	
\simulatewords[demo][n=40]	
\startplacefloat[figure] % [freeregion=no]	
\blackrule[width=12cm,height=1cm,color=red]	
\stopplacefigure	
\simulatewords[demo][n=40]	
\stoptextbackground	







Because of its look and feel, a math formula can look too widely spaced when put on a grid. There are a few ways to control this. First of all, the default grid option bound to math is already more tolerant. But you can control it locally too. Take the following formula:

$$a = b^c$$

This has been entered as:

\startformula a = b^c \stopformula

and because it is just a line of math it comes out as expected. The next code

\startformula

a = \frac {a} {b}
\stopformula

produces a higher line:

$$a = \frac{a}{b}$$

as does:

\startformula

a = \frac {\frac {b} {c}} {\frac {d} {e}}

\stopformula

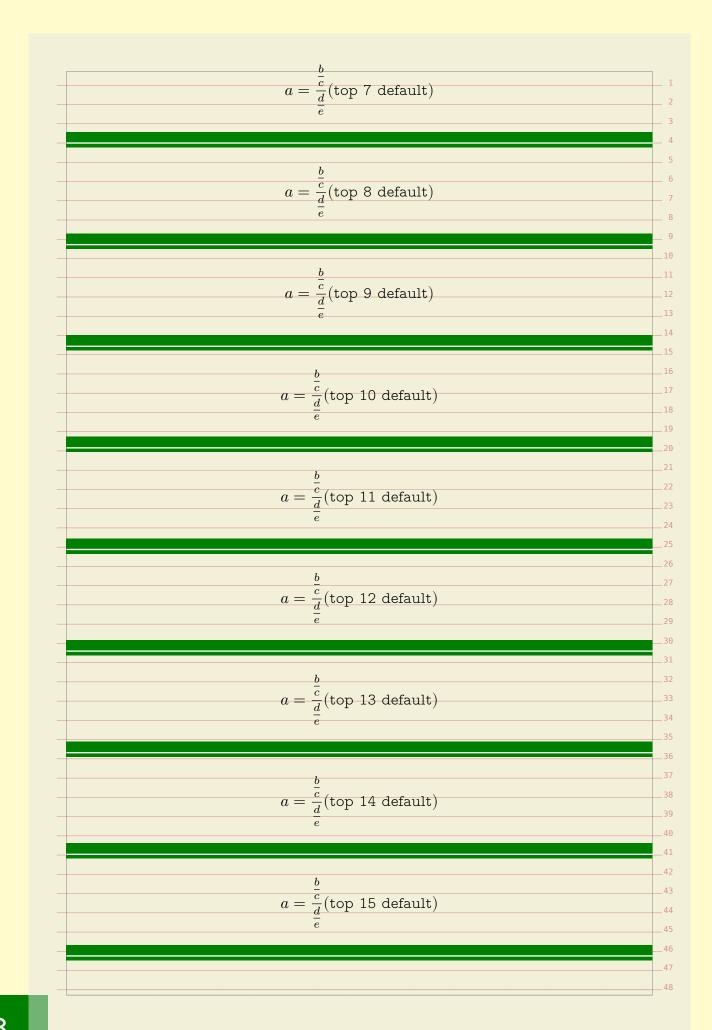
$$a = \frac{\frac{b}{c}}{\frac{d}{e}}$$

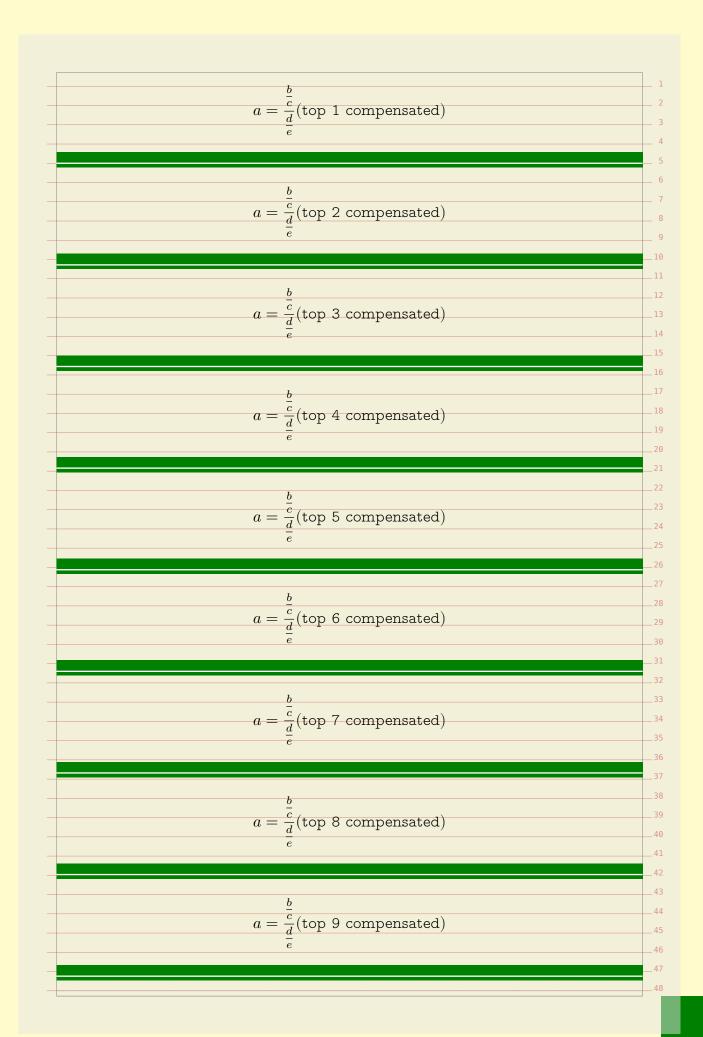
45

47

We will now demonstrate three ways to compensate fo rexcessive spacing. The first variant just sets a grid parameter: \startformula[grid=math:-halfline] a = \frac {\frac {b} {c}} {\frac {d} {e}} \stopformula You can also pass this as an option. Only a few such grid related options are defined: halfline, line, -halfline and -grid. \startformula[-halfline] a = \frac {\frac {b} {c}} {\frac {d} {e}} \stopformula If you need to compensate frequently you can consider defining an instance: \defineformula[tight][grid=math:-halfline] \starttightformula a = \frac {\frac {b} {c}} {\frac {d} {e}} \stoptightformula The result can be somewhat unexpected at the top and bottom of a page. When we subtract half a line from the height we can end up above the text area. This

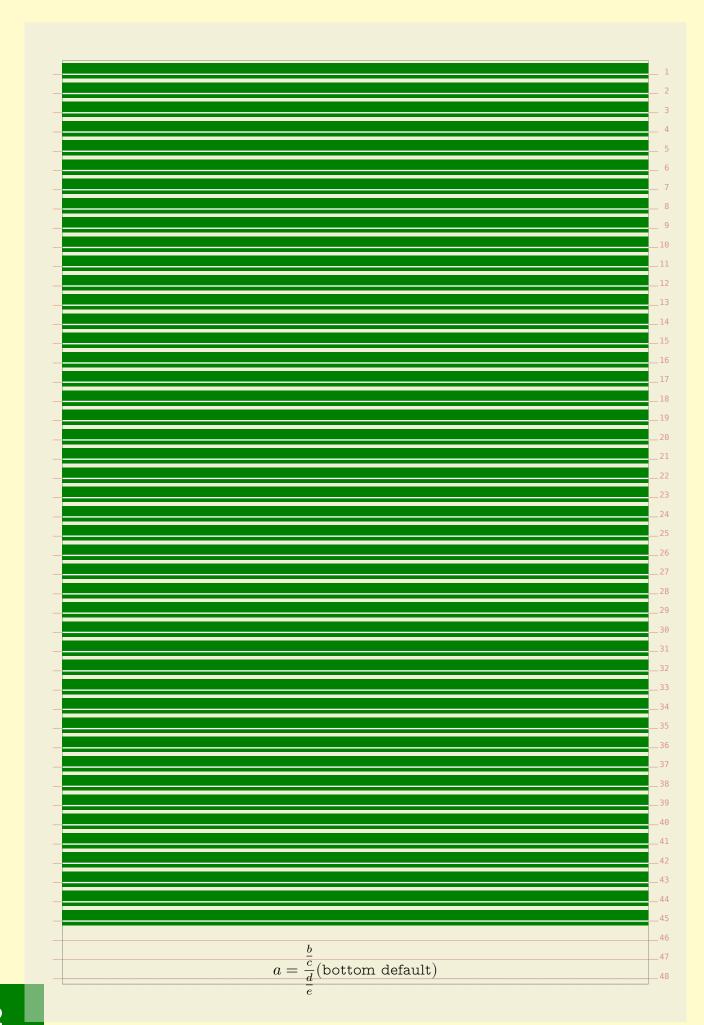
as	
math	maxdepth:1.05,maxheight:1.05,strut
math:line	maxdepth:1.05,maxheight:1.05,strut,line,split
math:halfline	maxdepth:1.05,maxheight:1.05,strut,halfline,split
math:-line	maxdepth:1.05,maxheight:1.05,strut,-line,split
math:-halfline	maxdepth:1.05,maxheight:1.05,strut,-halfline,split
You can define y	our own variants building on top of an existing one:
\definegrids	napping[math:my][math,]
	the effect of the split directive here. It triggers a check at the but you need to keep in mind that this is not always robust as
	themselves can be triggered by and inject anything.
bucii bouilualles	one of the state o
	<u>b</u>
	$a = \frac{\frac{b}{c}}{\frac{d}{c}}(\text{top 1 default})$
	$\frac{u}{e}$
	b
	$a = \frac{\frac{\sigma}{c}}{\frac{d}{c}}(\text{top 2 default})$
	$\frac{d}{e}$
	b
	$a = \frac{\frac{\sigma}{c}}{d}(\text{top 3 default})$
	$d^{(i)}$
	e
	ē
	b
	<u>b</u>
	$a=rac{rac{b}{c}}{rac{d}{c}} ext{(top 4 default)}$
	<u>b</u>
	<u>b</u>
	<u>b</u>
	$a = rac{rac{b}{c}}{rac{d}{e}} ext{(top 4 default)}$
	<u>b</u>
	$a = rac{rac{b}{c}}{rac{d}{e}} ext{(top 4 default)}$
	$a = rac{rac{b}{c}}{rac{d}{e}} ext{(top 4 default)}$
	$a = rac{rac{b}{c}}{rac{d}{e}} ext{(top 4 default)}$
	$a=rac{rac{b}{c}}{rac{d}{e}}(ext{top 4 default})$ $a=rac{rac{b}{c}}{rac{d}{e}}(ext{top 5 default})$
	$a = rac{rac{b}{c}}{rac{d}{e}} ext{(top 4 default)}$

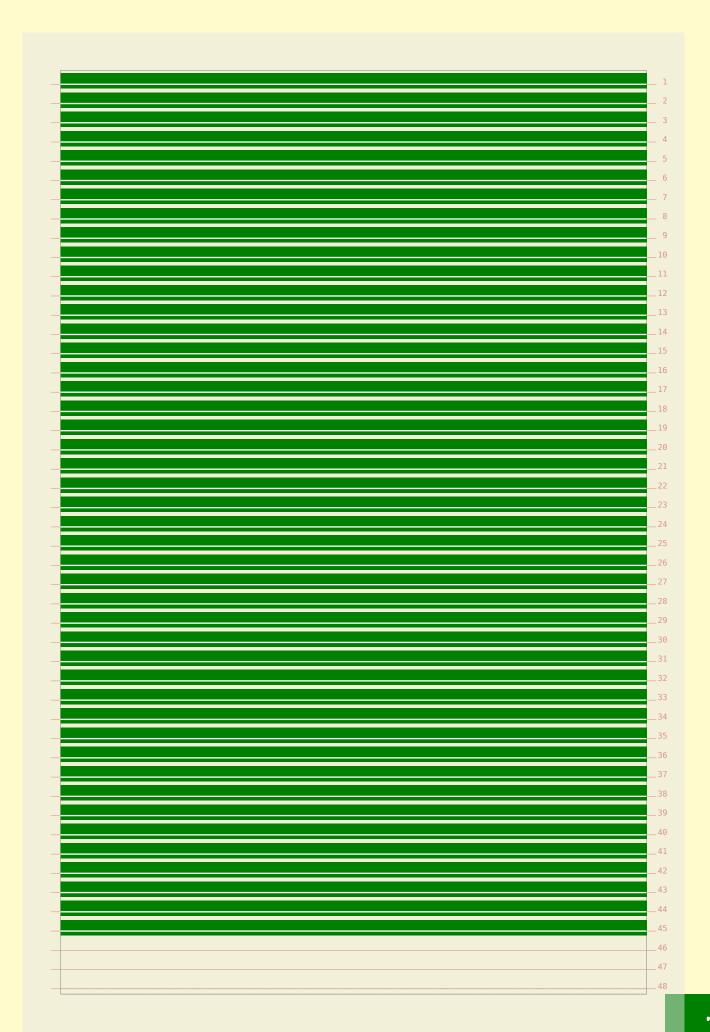




```
\frac{\overline{c}}{d}(top 10 compensated)
                                    (top 11 compensated)
                                  \frac{\overline{c}}{d}(top 12 compensated)
                                  \frac{c}{d}(top 13 compensated)
                                  \frac{\overline{c}}{d}(top 14 compensated)
                             a = \frac{\overline{c}}{d}(\text{top 15 compensated})
As said, the compensation is achieved with the page directive. The previous
pages were rendered using:
   \dorecurse {15} {
        \startformula[grid={math,-halfline}]
              a = \frac {\frac {b} {c}} {\frac {d} {e}}
              (\hbox{top #1 default})
         \stopformula
         \blank[samepage]
         \fakeline
and
                                                                                            45
   \dorecurse {15} {
         \startformula[grid={math,-halfline,split}]
```

	stopformula	
	blank[samepage]	
	fakeline	
}		
·	to mot a completent would use becaute a double of the	o formando the come
	to get a consistent result we keep the depth of the	
out enec	tively shift it down a bit, still honouring the grid.	so what about the
	lecide that the snapped formula doesn't fit and forc	o a norm nago hut mo
	accept that it sticks out to the bottom, which is less	
	accept that it sticks out to the bottom, which is less ge case.	worse than the top-
or-me-be	ge case.	

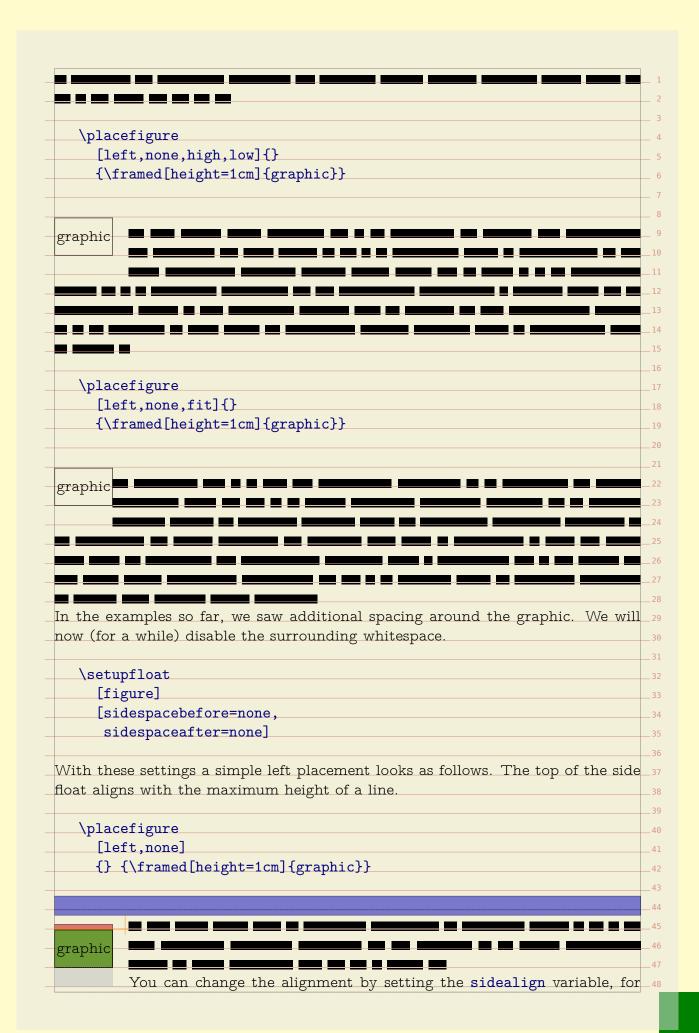




	b
	$a = \frac{\frac{b}{c}}{\frac{d}{e}}$ (bottom compensated)
	$\frac{a}{e}$
These mechanis	sms might be improved over time but as we don't use it frequently
that might take	
The following	formula was posted at the ConTEXt mailing list in a grid snap
. •	d we will use it to demonstrate how you can mess a bit with the
snapping.	
$g(x \{*\}) =$	\lim_{n\to\infty} g(a_{n}) \leq 0 \leq \lim_{n\to\infty}
$g(b_{n}) =$	
_	ven grid parameter as well as its expansion into the low level grid
directives.	
grid=math	expanded: maxdepth:1.05, maxheight:1.05, strut
	$g(x_*) = \lim_{n \to \infty} g(a_n) \leq 0 \leq \lim_{n \to \infty} g(b_n) = g(x_*)$
	$n{ o}\infty$
grid=low,half	line expanded: maxheight,mindepth,none,halfline
grid=low,half	line expanded: maxheight, mindepth, none, halfline
grid=low,half	
grid=low,half	line expanded: maxheight, mindepth, none, halfline $g(x_*)=\lim_{n\to\infty}g(a_n)\leq 0\leq \lim_{n\to\infty}g(b_n)=g(x_*)$
grid=low,half	
	$g(x_*) = \lim_{n \to \infty} g(a_n) \le 0 \le \lim_{n \to \infty} g(b_n) = g(x_*)$
	$g(x_*) = \lim_{n \to \infty} g(a_n) \le 0 \le \lim_{n \to \infty} g(b_n) = g(x_*)$
	$g(x_*)=\lim_{n\to\infty}g(a_n)\leq 0\leq \lim_{n\to\infty}g(b_n)=g(x_*)$ epth expanded: maxdepth:1.05,maxheight:1.05,strut,nodepth
	$g(x_*) = \lim_{n \to \infty} g(a_n) \le 0 \le \lim_{n \to \infty} g(b_n) = g(x_*)$
	$g(x_*)=\lim_{n\to\infty}g(a_n)\leq 0\leq \lim_{n\to\infty}g(b_n)=g(x_*)$ epth expanded: maxdepth:1.05,maxheight:1.05,strut,nodepth
	$g(x_*)=\lim_{n\to\infty}g(a_n)\leq 0\leq \lim_{n\to\infty}g(b_n)=g(x_*)$ epth expanded: maxdepth:1.05,maxheight:1.05,strut,nodepth
	$g(x_*)=\lim_{n\to\infty}g(a_n)\leq 0\leq \lim_{n\to\infty}g(b_n)=g(x_*)$ epth expanded: maxdepth:1.05,maxheight:1.05,strut,nodepth
	$g(x_*)=\lim_{n\to\infty}g(a_n)\leq 0\leq \lim_{n\to\infty}g(b_n)=g(x_*)$ epth expanded: maxdepth:1.05,maxheight:1.05,strut,nodepth
	$g(x_*)=\lim_{n\to\infty}g(a_n)\leq 0\leq \lim_{n\to\infty}g(b_n)=g(x_*)$ epth expanded: maxdepth:1.05,maxheight:1.05,strut,nodepth
	$g(x_*)=\lim_{n\to\infty}g(a_n)\leq 0\leq \lim_{n\to\infty}g(b_n)=g(x_*)$ epth expanded: maxdepth:1.05,maxheight:1.05,strut,nodepth
	$g(x_*)=\lim_{n\to\infty}g(a_n)\leq 0\leq \lim_{n\to\infty}g(b_n)=g(x_*)$ epth expanded: maxdepth:1.05,maxheight:1.05,strut,nodepth
	$g(x_*)=\lim_{n\to\infty}g(a_n)\leq 0\leq \lim_{n\to\infty}g(b_n)=g(x_*)$ epth expanded: maxdepth:1.05,maxheight:1.05,strut,nodepth
	$g(x_*)=\lim_{n\to\infty}g(a_n)\leq 0\leq \lim_{n\to\infty}g(b_n)=g(x_*)$ epth expanded: maxdepth:1.05,maxheight:1.05,strut,nodepth
	$g(x_*)=\lim_{n\to\infty}g(a_n)\leq 0\leq \lim_{n\to\infty}g(b_n)=g(x_*)$ epth expanded: maxdepth:1.05,maxheight:1.05,strut,nodepth

Graphics, tables and alike are often treated as floating bodies. This means that when such a body does not fit on the current page, it will be moved to the next one. In the examples we will use figures, but much of what we demonstrate here applies to all floats. A side float is a float which placement one way or another depends on the text that follows it. In its simplest form, the text flows around it, for instance in: \placefigure[left,none]{caption}{\framed[height=1cm]{graphic}} The first keyword of such a call is treated as a placement directive, so this figure will be placed left. The none directive nils the caption. graphic When the figure does not fit on the page, a page break is issued. A figure can span multiple paragraphs. When a next graphic is placed the previous figure will be padded if needed. First an example of multiple paragraphs. graphic Multiple floats in a row will lead to padding. The amount of padding is a combi-31 nation of empty lines and the normal white space following the float. The visual quality of the result depends on the graphic itself. graphic graphic Here we show the baseline of the first paragraph after the float as well as the filler. The whitespace around a graphic also depends on the inter-paragraph whitespace. As with many automated mechanisms, compromises are made. A







! \placefigure [leftmargin, none] {} {\framed[width=1.5cm]{!}} The placement directives can be combined with setting distance and width pa- 12 rameters, thereby not only opening a world of possibilities, but also creating 13 confusion. Therefore, we will illustrate these features by cloning floats. \definefloat [marginfigure] [figure] \setupfloat [marginfigure] [leftmargindistance=-\leftmargintotal, default={left,none,low}] The definition command clones figure into a new class of figures. There are two ways to use such a float : \placefloat [marginfigure] {} {\framed[width=1.5cm]{!}} or directly: \placemarginfigure {} {\framed[width=1.5cm]{!}} Both placement calls will result in a figure sticking into the margin. By manipulating the margin distance, you can align graphics to vertical grid lines, 41 like the edge: \definefloat [edgefigure] [figure] \setupfloat

[edgefigure] [leftmargindistance=-\innercombitotal, default={left,none,low,high}] The \innercombitotal is one of the many available dimensions. This measure is the combined width of the margin and edge. \placeedgefigure {} {\framed[width=1.5cm]{!}} \placeedgefigure {} {\framed[width=\innercombitotal]{!}} ļ You need to be aware of the fact that the margins and edges are not related to 21 the backspace and cut space settings. When you set up a layout, you need to 22 think of the right page as starting point. In a double sided layout, the margins 23 are swapped in the page composition stage. Unless you explicitly go to a left or 24 right page, you don't know if your left margin will be swapped or not. For this reason ConTFXt provides the inner and outer margin/edge dimensions. 26 These are automatically synchronized when the float is constructed. So, if you want to automatically adapt the float placement and width to the current left margin in a double sided document, you can use the inner dimensions. dimension left page right page \leftmarginwidth \outermarginwidth \rightmarginwidth \innermarginwidth \rightmarginwidth \leftmarginwidth \rightmargindistance \outermargindistance \leftmargindistance \innermargindistance \rightmargindistance \leftmargindistance Similar dimensions are available for the edges. You can save yourself some calcu- ${}_{
m 37}$ lations by using the following dimensions: \leftmargintotal left margin width + left margin distance \rightmargintotal right margin width + right margin distance \innermargintotal inner margin width + inner margin distance **\outermargintotal** outer margin width + outer margin distance As you may expect, the edge totals are available as well, which leave a few more totals, namely the combinations of margin and edge. 47

rightsidetotal right margin width+right edge total innersidetotal inner margin width+inner edge total outersidetotal outer margin width+outer edge total leftcombitotal left margin total +left edge total rightcombitotal right margin total +right edge total innercombitotal inner margin total +right edge total innercombitotal outer margin total +outer edge total daptive back- and cutspace dimensions are also available: innerspacewidth adaptive backspace outerspacewidth adaptive backspace outerspacewidth adaptive cutspace There is one drawback in using the inner and outer dimensions: if you also change he height of the float dynamically, you may end up in a kind of loop because a lage break may occur at a non-expected place. While negative values move float into the margin, positive values will move the roat into the text. It will be of no surprise that you can also set the right margin istance. Keep in mind that this distance is not related to the text margin, but to the float margin. \setupfloat [leftmargindistance=\outercombitotal,	leftsidetotal	left margin width +left edge total	_ 1
innersidetotal inner margin width+inner edge total outersidetotal outer margin width+outer edge total leftcombitotal left margin total +left edge total rightcombitotal inner margin total +right edge total innercombitotal inner margin total +right edge total outercombitotal outer margin total +outer edge total daptive back- and cutspace dimensions are also available: innerspacewidth adaptive backspace outerspacewidth adaptive backspace outerspacewidth adaptive cutspace There is one drawback in using the inner and outer dimensions: if you also change he height of the float dynamically, you may end up in a kind of loop because a age break may occur at a non-expected place. While negative values move float into the margin, positive values will move the oat into the text. It will be of no surprise that you can also set the right margin istance. Keep in mind that this distance is not related to the text margin, but to the float margin. \setupfloat [edgefigure] [leftmargindistance=-\outercombitotal,			2
Setupfloat Set	0		3
leftcombitotal left margin total +left edge total rightcombitotal right margin total +right edge total rightcombitotal right margin total +right edge total rightcombitotal inner margin total +right edge total outercombitotal outer margin total +outer edge total outercombitotal outer margin total +outer edge total daptive back- and cutspace dimensions are also available: innerspacewidth adaptive backspace outerspacewidth adaptive cutspace There is one drawback in using the inner and outer dimensions: if you also change he height of the float dynamically, you may end up in a kind of loop because a ge break may occur at a non-expected place. While negative values move float into the margin, positive values will move the soat into the text. It will be of no surprise that you can also set the right margin istance. Keep in mind that this distance is not related to the text margin, but to the float margin. \setupfloat [edgefigure] [leftmargindistance=-\outercombitotal,	innersidetotal	inner margin width+inner edge total	4
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rightcombitotal right margin total +right edge total innercombitotal inner margin total +inner edge total outercombitotal outer margin total +outer edge total daptive back- and cutspace dimensions are also available: innerspacewidth adaptive backspace outerspacewidth adaptive cutspace There is one drawback in using the inner and outer dimensions: if you also change he height of the float dynamically, you may end up in a kind of loop because a age break may occur at a non-expected place. While negative values move float into the margin, positive values will move the loat into the text. It will be of no surprise that you can also set the right margin istance. Keep in mind that this distance is not related to the text margin, but the float margin. \setupfloat [edgefigure] [leftmargindistance=\outercombitotal,	leftcombitotal	left margin total +left edge total	7
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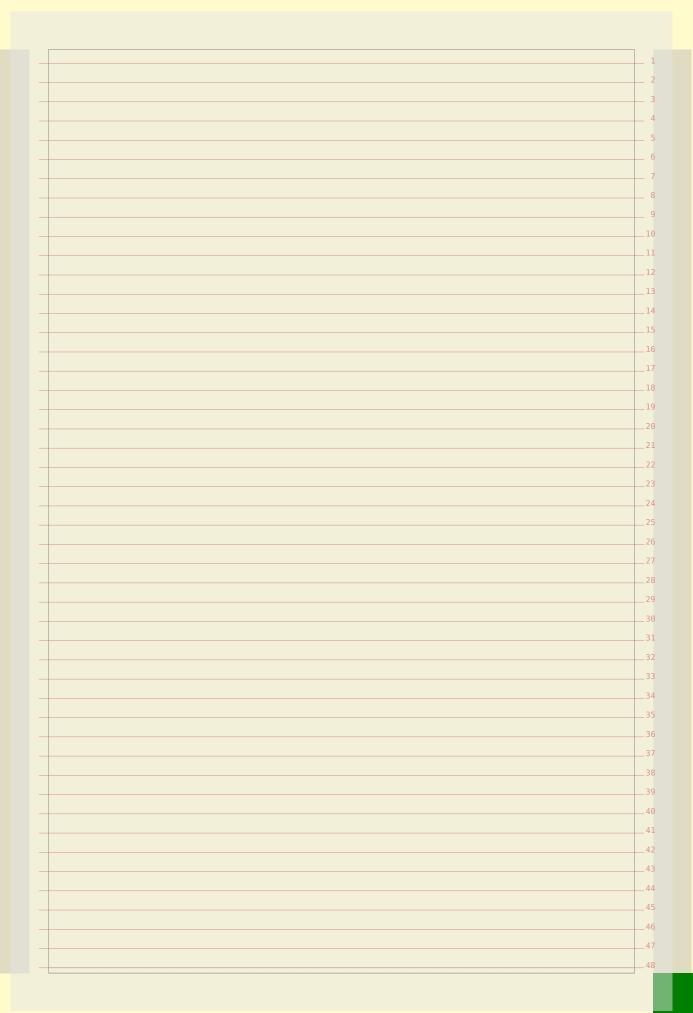


into normal floats instead of side floats. But let's not fall back on that feature now. You can use maxwidth and minwidth variables to control the placement in more detail. The exact result depends on the settings of location. By default we center, but you can set the location to left or right to achieve a different alignment. \definefloat [midmarginfigure] [figure] \setupfloat [midmarginfigure] [minwidth=\leftmarginwidth, default={leftmargin,none}] You can use maxwidth and minwidth variables to control the placement in more 16 detail. The exact result depends on the settings of location. By default we center, 17 but you can set the location to left or right to achieve a different alignment. \placemidmarginfigure {} {\framed[width=1.5cm]{!}} The meaning of maxwidth depends on the kind of float. First we place a left float with a width smaller than maxwidth. \setupfloat[figure][maxwidth=2cm] \placefigure[left,none]{}{\framed[width=1cm]{!}} When the width exceeds the maxwidth, the float will be centered. This is because we have no reference alignment point. \placefigure[left,none]{}{\framed[width=5cm]{!}} In margin floats, the maxwidth settings have a different result. First we place a small graphic. \setupfloat[figure][maxwidth=\leftmarginwidth] 47

\placefigure[leftmargin,none]{}{\framed[width=1cm]{!}} Because the left and right margin of this document are the same —the edges differ— we don't need to use inner and outer dimensions. \setupfloat[figure][maxwidth=\leftmarginwidth] A wider than maxwidth graphic will behave like a mixture of a margin and text side float. Watch how we align the float to the margin. \placefigure[leftmargin,none]{}{\framed[width=5cm]{!}} Instead of setting the width you can give hanging a try. The next examples demonstrate this. \placefigure[leftmargin,hanging,none]{}{\framed[width=5cm]{!}} \placefigure[left, hanging, none] {} {\framed[width=5cm] {!}} You can move down/up margin floats with the \movesidefloat macro. Such shifts come in handy when you have multiple side floats near to each other. \movesidefloat [+2*line] \placemidmarginfigure {} {\framed{!}} Given the default placement template, this is equivalent to the following command. $_{ t 47}$ Watch out, a simple line has a different effect (alignment).

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Did we clash or not?	· · · · · · · · · · · · · · · · · · ·
	ros that can be of help with solving clashes in side floats
flushsidefloats	This macro moves down as much as is needed to separathe side floats of each other.
\forgetsidefloats	this macro kind of forgets that a side float is in progres
Use these macros wi	th care. If you change the dimensions of the graphic and
content involved, red	consider the use of these directives.
The next couple of s	preads we will demonstrate some example definitions. T
•	n from one of the styles we made for typesetting a serie
_ <u>_</u>	which illustrations and tables all over the pages.
	the spacing around side floats and verbatim text.
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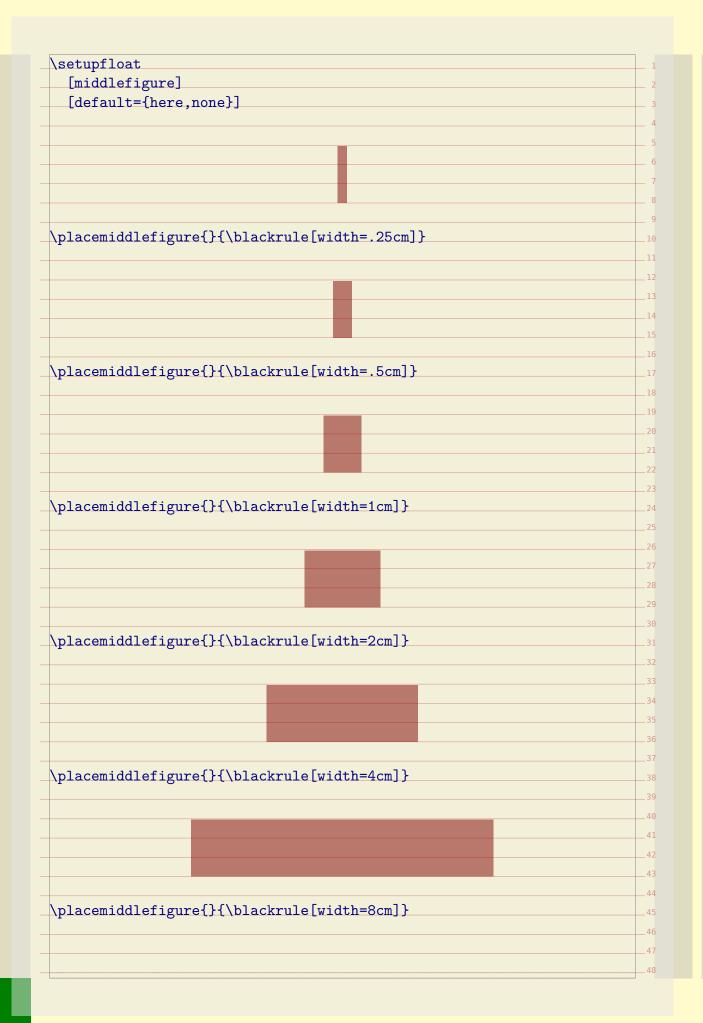


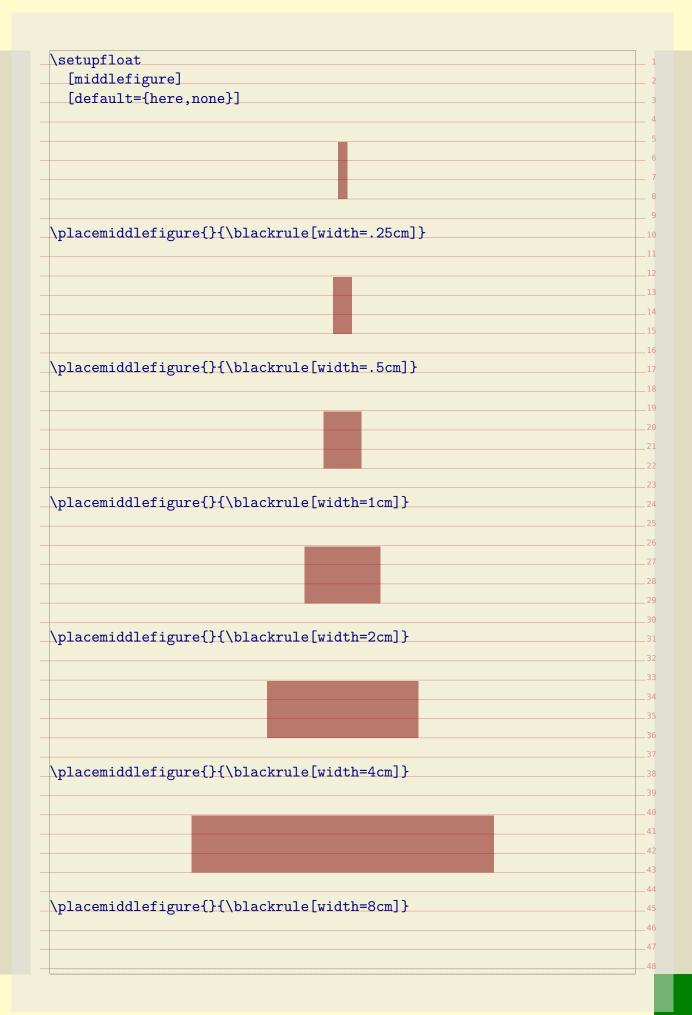
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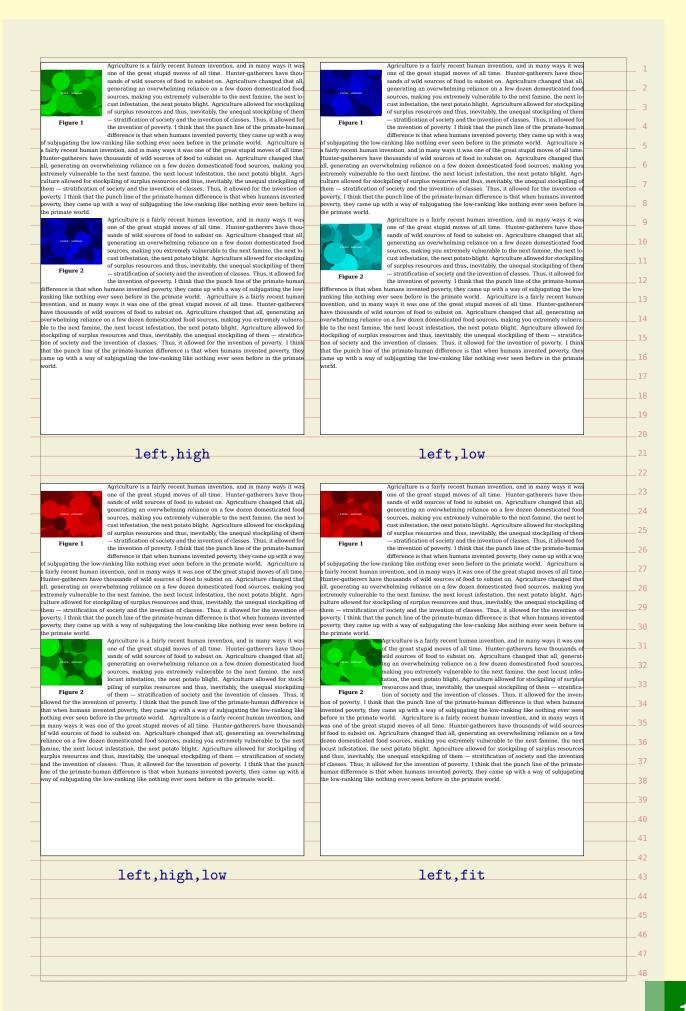
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Ve will now demonstrate some features in a way that makes it possible to co	mpare
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t is important to realize that all that spacing can interfere with addition	al hard
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The last few examples demonstrate that you can define an instance. Often	that's
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Figure 1

Agriculture is a fairly recent human invention, and in many ways it was one of the great stupid moves of all time. Hunter-gatherers have thou-sands of wild sources of food to subsist on. Agriculture changed that all generating an overwhelming reliance on a few dozen domesticated food sources, making you extremely vulnerable to the next famine, the next lo cust infestation, the next potato blight. Agriculture allowed for stockpiling of surplus resources and thus, inevitably, the unequal stockpiling of their stratification of society and the invention of classes. Thus, it allowed for the invention of poverty. I think that the punch line of the primate-huma difference is that when humans invented poverty, they came up with a way

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Agriculture is a fairly recent human invention, and in many ways it was one of the great stupid moves of all time. Hunter-gatherers have thou one of the great stupid moves of all time. Hunter-gatherers have thou, sands of wild sources of food to subsist on. Agriculture changed that all, generating an overwhelming reliance on a few dozen domesticated food sources, making you extremely vulnerable to the next famine, the next locust infestation, the next potato blight. Agriculture allowed for stockpilling of surplus resources and thus, inevitably, the unequal stockpilling of them — stratification of society and the invention of classes. Thus, it allowed for the invention of poverty. I think that the punch line of the primate-human difference is that when humans invented poverty, they came up with a way of subjugating the low-ranking like nothing ever seen before in the primate world. Agriculture is a fairly recent human invention, and in many ways it was one of the great stupid moves of all time. Hunter-gatherers have thousands of wild sources of food to subsist on. Agriculture changed that all, generating an overwhelming reliance on a few dozen domesticated food sources, making you stremely vulnerable to the next famine, the next locust infestation, the next potato blight. Agri-

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default={left,line}

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default={left,2*line}



Figure 1

Agriculture is a fairly recent human invention, and in many ways it was one of the great stupid moves of all time. Hunter-gatherers have thou-sands of wild sources of food to subsist on. Agriculture changed that all generating an overwhelming reliance on a few dozen domesticated food sources, making you extremely vulnerable to the next famine, the next lo cust infestation, the next potato blight. Agriculture allowed for stockpiling of surplus resources and thus, inevitably, the unequal stockpiling of then stratification of society and the invention of classes. Thus, it allowed for the invention of poverty. I think that the punch line of the primate-huma difference is that when humans invented poverty, they came up with a way f subjugating the low-ranking like nothing ever seen before in the primate world. Agriculture

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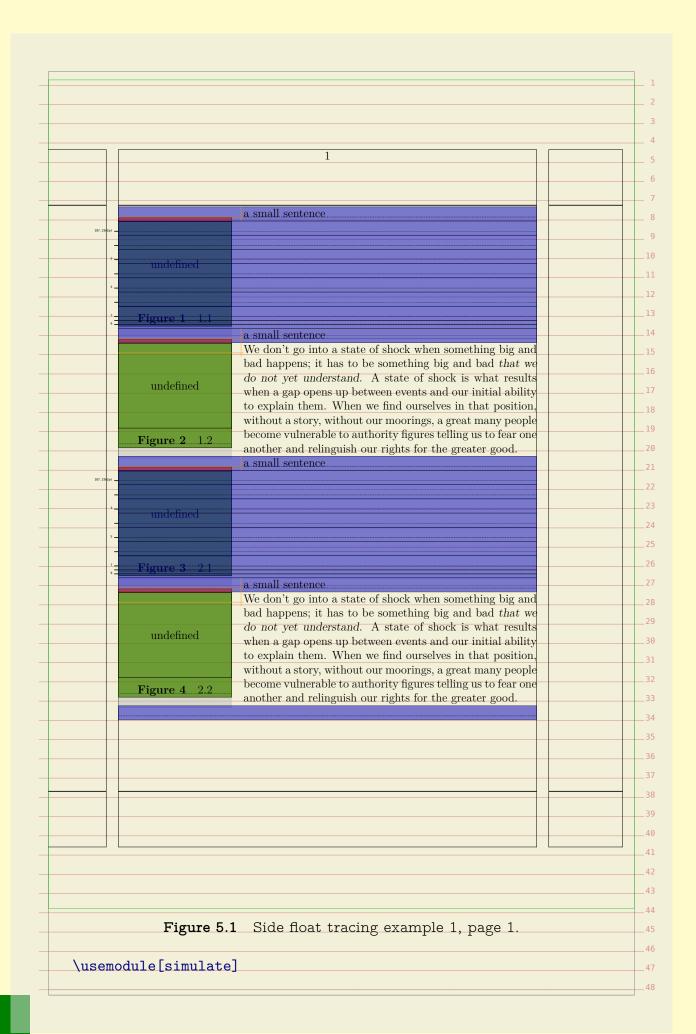
one of the great stupid moves of all time. Hunter-gatherers have thou sands of wild sources of food to subsist on. Agriculture changed that all generating an overwhelming reliance on a few dozen domesticated food sources, making you extremely vulnerable to the next famine, the next lo cust infestation, the next potato blight. Agriculture allowed for stockpiling of surplus resources and thus, inevitably, the unequal stockpiling of then stratification of society and the invention of classes. Thus, it allowed for the invention of poverty. I think that the punch line of the primate-huma

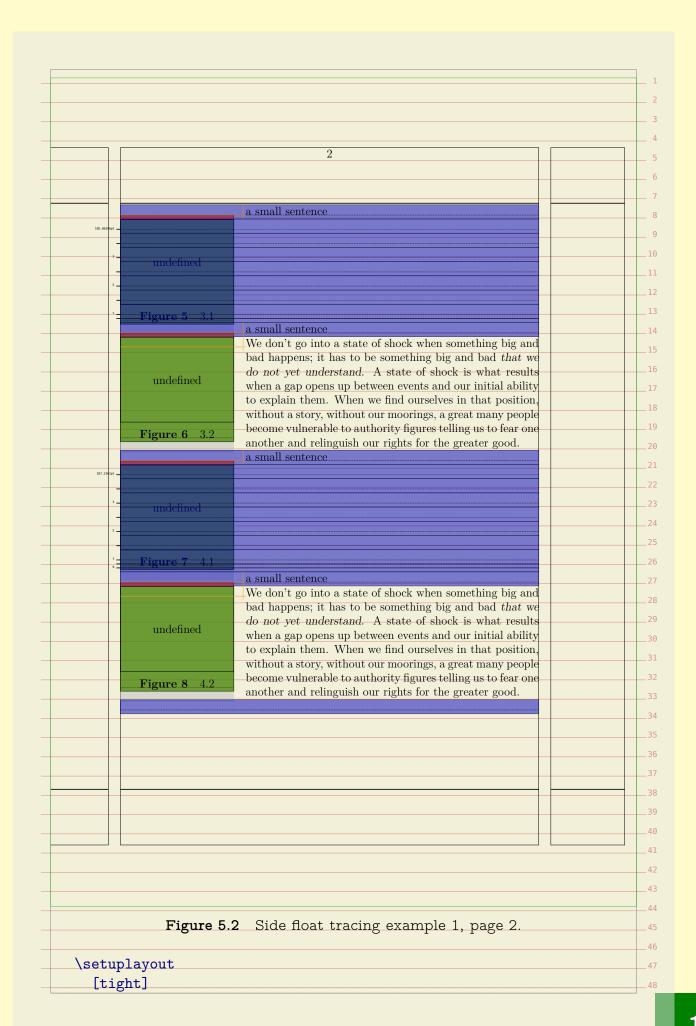
Figure 2 the invention of poverty. I think that the punch line of the primate-human difference is that when humans invented poverty, they came up with a way of subjugating the low-ranking like nothing ever seen before in the primate world. Agriculture is a fairly recent human invention, and in many ways it was one of the great stupid moves of all time, thunter-gatheres have thousands of wild sources of food to subsist on. Agriculture changed that all, generating an overwhelming reliance on a few dozen domesticated food sources, making you stremely vulnerable to the next famine, the next locust infestation, the next potato blight, Agriculture allowed for stockpiling of surplus resources and thus, inevitably, the unequal stockpiling of whem — stratification of society and the invention of classes. Thus, it allowed for the invention of poverty. I think that the punch line of the primate-human difference is that when humans invented poverty, they came up with a way of subjugating the low-ranking like nothing ever seen before in the primate world.

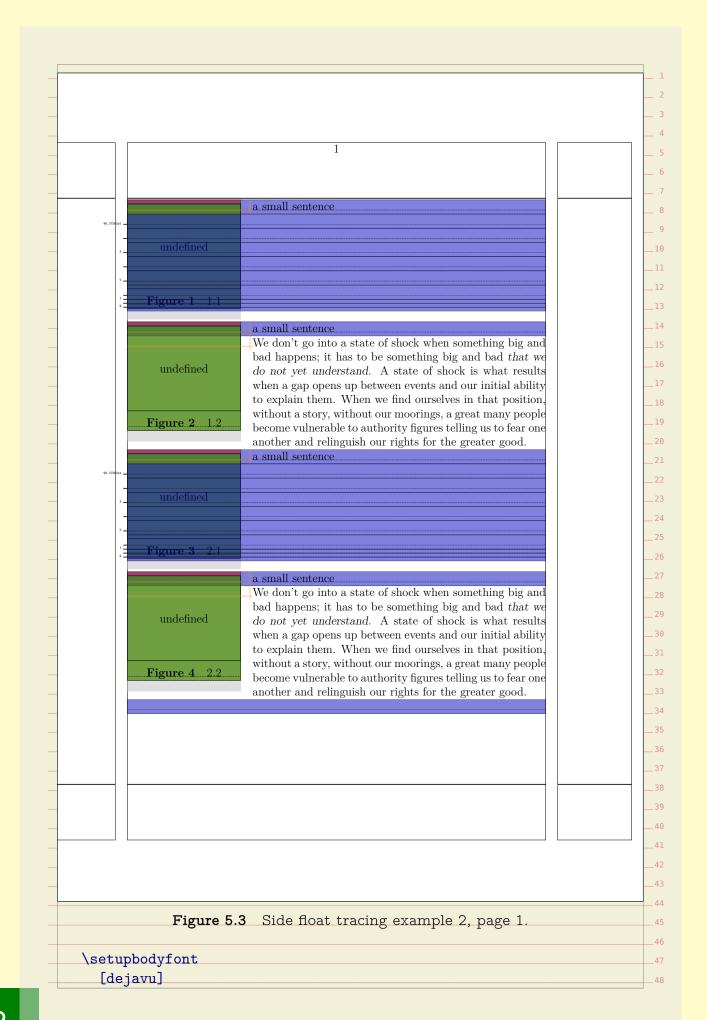
default=left, topoffset=5pt default=left, topoffset=5pt, bottomoffset=5pt There is some tracing built in but as this mechanism is rather complex it only gives an idea about what is going on. Here is an example:

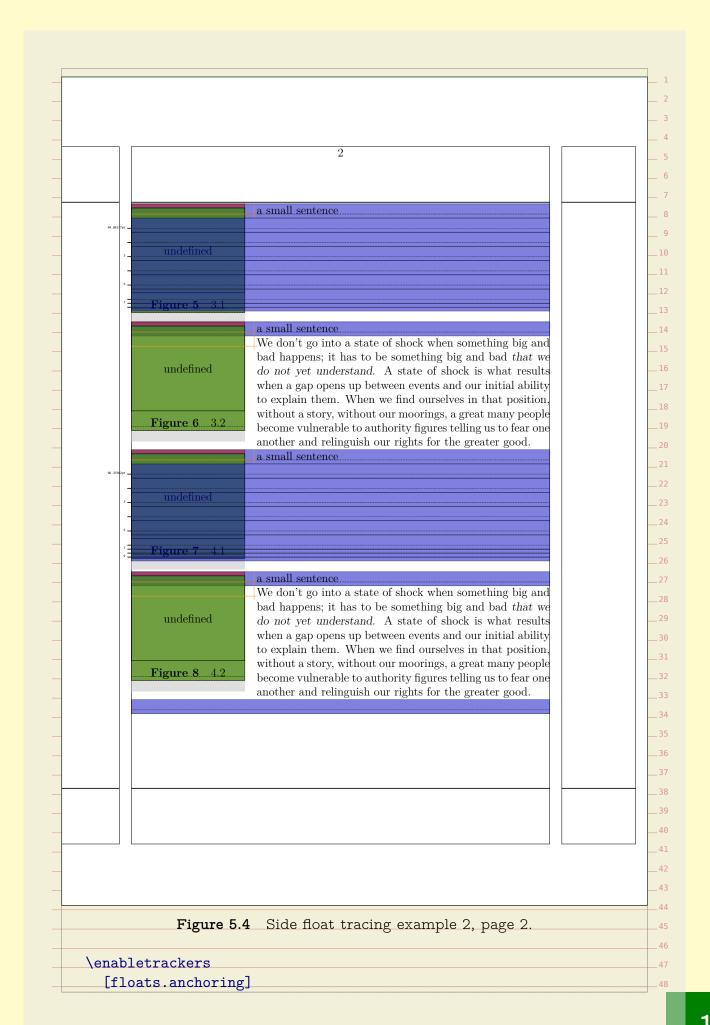
\enabletrackers[floats.anchoring]

```
\showframe
   \setupfloat
     [sidespacebefore=big,
      sidespaceafter=big]
   \starttext
       \dorecurse{10}{
            \placefigure[left]{#1.1}{}
            a small sentence \par
            \placefigure[left]{#1.2}{}
            a small sentence \par
            \input klein \par
       }
   \stoptext
In figure 5.1 and figure 5.2 you see the first two pages of the typeset result.
The anchor to the text is showed in orange and an optional shift in red. The 18
content is in green and a depth compensation in magenta. Dummy lines added 19
for proper spacing as well as progressing beyond a previous float are in blue.
A second example that uses different settings is shown in figure 5.3 and figure 5.4. 21
   \enabletrackers[floats.anchoring]
   \setupfloat
     [sidespacebefore=,
      sidespaceafter=big,
      step=small]
   \showframe
   \starttext
       \dorecurse{10}{
            \placefigure[left]{#1.1}{}
            a small sentence \par
            \placefigure[left]{#1.2}{}
            a small sentence \par
            \input klein \par
       }
   \stoptext
Progressing next to a side float and determining how many lines to indent is a _{
m 42}
somewhat complex mechamism because many factors play a role and spacing can 43
interfere badly. The decision about the number of lines to hang is to some extend 44
controllable but there are cases when you need to steer it (for instance by scaling
an image). In the next overviews we see the result of the following somewhat 46
complex setup:
                                                                               47
```







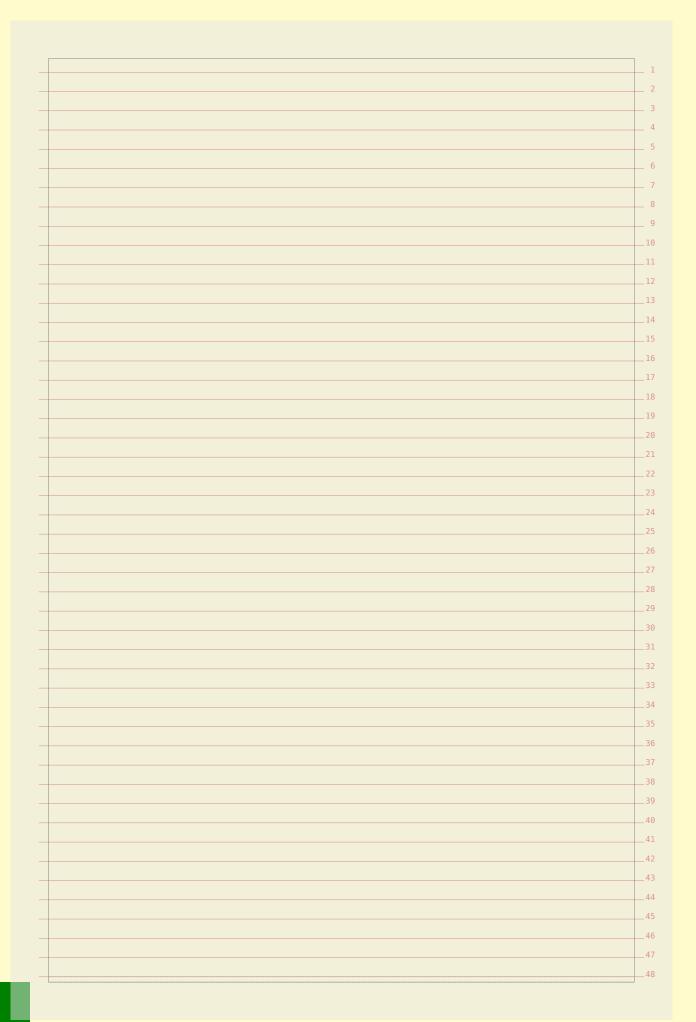


```
\setupfloats
  [sidethreshold=.5\strutdp, % default, use "old" for previous
implementation
  step=small]
\definemeasure[MyHeight][3cm]
\definemeasure[MyWidth] [3cm]
% \setupheadertexts
    [width=\measure{MyWidth}\quad height=\measure{MyHeight}]
\unexpanded\def\FakeWords#1%
  {\simulatewords
     [n=#1,m=#1,min=1,max=5,hyphen=no,color=text,line=yes,random=1234]}
\starttext
\startbuffer
    \FakeWords{100}\par
    \placefigure
        [left] {oeps}
        {\framed[width=\measure{MyWidth},height=\measure{MyHeight}]{}}
    \FakeWords {2}\par
    \FakeWords {3}\par
    \FakeWords {5}\par
    \FakeWords {4}\par
    \FakeWords{200}\par
    \placefigure
        [left] {oeps}
        {\framed[width=\measure{MyWidth},height=\measure{MyHeight}]{}}
    \FakeWords{200}\par
\stopbuffer
\dostepwiserecurse {\number\dimexpr3cm} {\number\dimexpr4cm} {\number\dimexpr0
    \definemeasure[MyWidth][#1sp]
    \dostepwiserecurse {\number\dimexpr3cm} {\number\dimexpr4cm}
{\number\dimexpr0.25cm} {
        \definemeasure[MyHeight][##1sp]
        \start
            \setupwhitespace[none]
            \getbuffer \page
        \stop
        \start
            \setupwhitespace[big]
                                                                     _45
            \getbuffer \page
        \stop
```

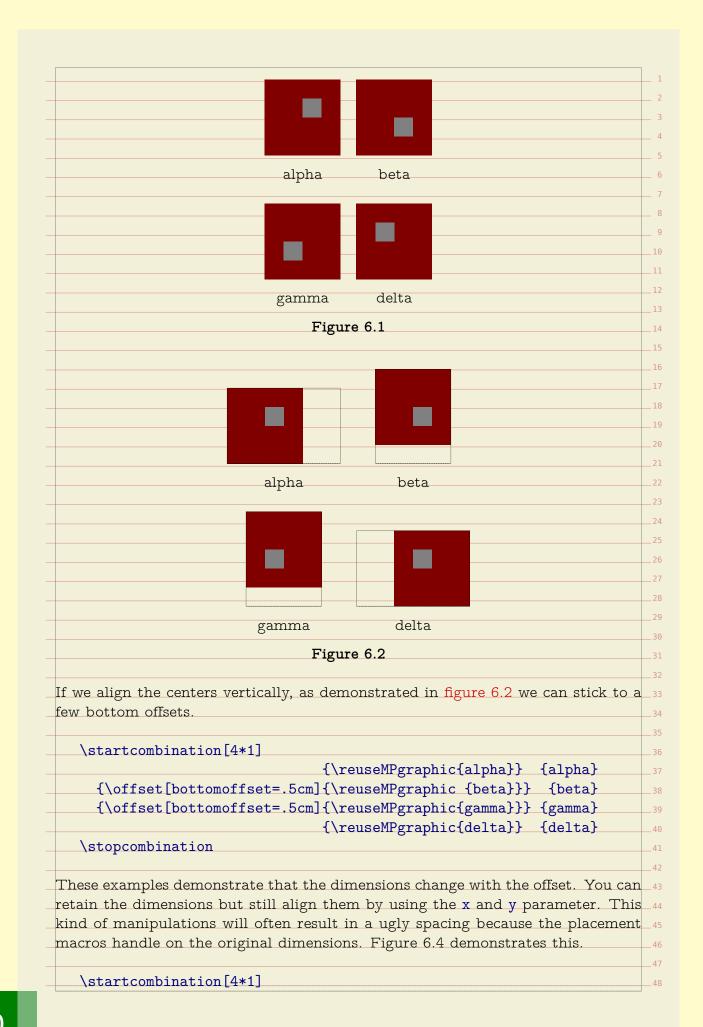
\stoptext	
	rols how we fill up the space when we need to progress ecause another float shows up or because we issue a
· ·	alue can be big, medium or small and defaults to small
	recision. The sidethreshold parameter controls the
	ang around the float. Here we only show the consequence
	rger threshold result in mode whitespace below the side
oat. You can zoom in to he examples yourself).	o see what happens at the bottom of the float (or rur
re examples yoursem).	

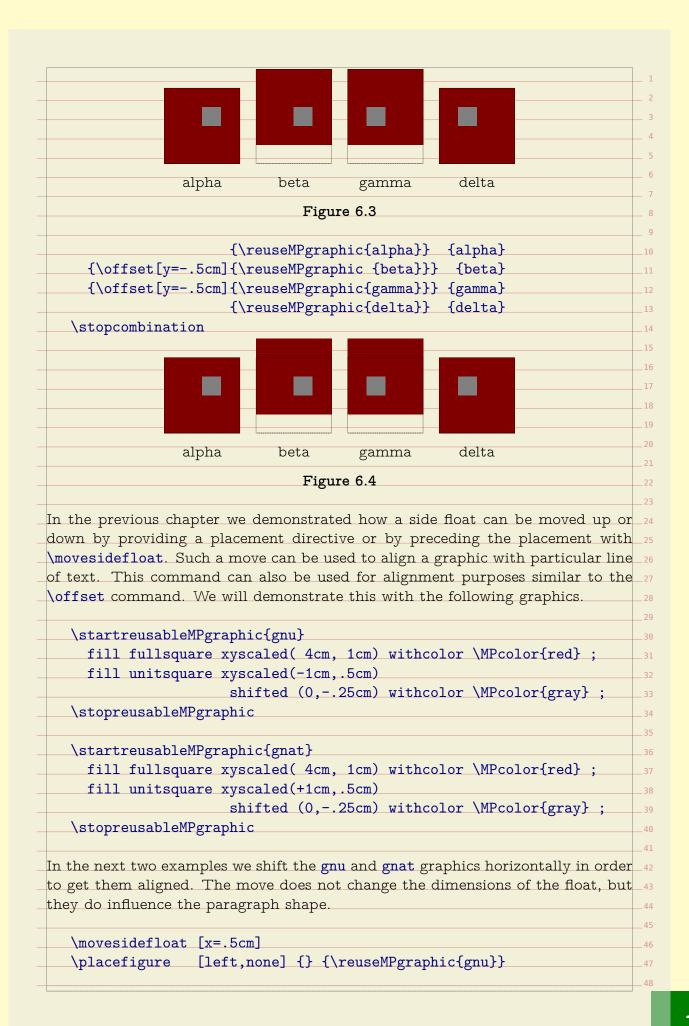






```
In this chapter we will discuss a few more tricks to control float placement. This
control is needed if you want to typeset documents in a semi desk top publishing
When you combine technical graphics, you may wish to align the content optically. 6
This can be done with the offset command. We will demonstrate this with a
couple of MetaPost graphics:
   \startreusableMPgraphic{alpha}
     fill fullsquare xyscaled( 2cm, 2cm) withcolor \MPcolor{red};
     fill unitsquare xyscaled(+.5cm,+.5cm) withcolor \MPcolor{gray};
   \stopreusableMPgraphic
  \startreusableMPgraphic{beta}
     fill fullsquare xyscaled( 2cm, 2cm) withcolor \MPcolor{red};
     fill unitsquare xyscaled(+.5cm,-.5cm) withcolor \MPcolor{gray};
  \stopreusableMPgraphic
   \startreusableMPgraphic{gamma}
     fill fullsquare xyscaled( 2cm, 2cm) withcolor \MPcolor{red};
     fill unitsquare xyscaled(-.5cm,-.5cm) withcolor \MPcolor{gray};
  \stopreusableMPgraphic
  \startuseMPgraphic{delta}
     fill fullsquare xyscaled( 2cm, 2cm) withcolor \MPcolor{red};
     fill unitsquare xyscaled(-.5cm,+.5cm) withcolor \MPcolor{gray};
   \stopuseMPgraphic
   \startcombination[2*2]
     {\reuseMPgraphic{alpha}} {alpha}
     {\reuseMPgraphic {beta}} {beta}
     {\reuseMPgraphic{gamma}} {gamma}
     {\reuseMPgraphic{delta}} {delta}
   \stopcombination
In figure 6.1 we place these graphics in a 2*2 grid. As you can see, the centers
don't align well.
In figure 6.2 the centers of the graphic align well. This is accomplished by adding
some space around the graphics.
   \startcombination[2*2]
     {\offset[rightoffset=1cm] {\reuseMPgraphic{alpha}}} {alpha}
     {\offset[bottomoffset=.5cm]{\reuseMPgraphic {beta}}} {beta}
     {\offset[bottomoffset=.5cm]{\reuseMPgraphic{gamma}}} {gamma}
                                                                          45
     {\offset[leftoffset=1cm] {\reuseMPgraphic{delta}}} {delta}
   \stopcombination
                                                                          47
```







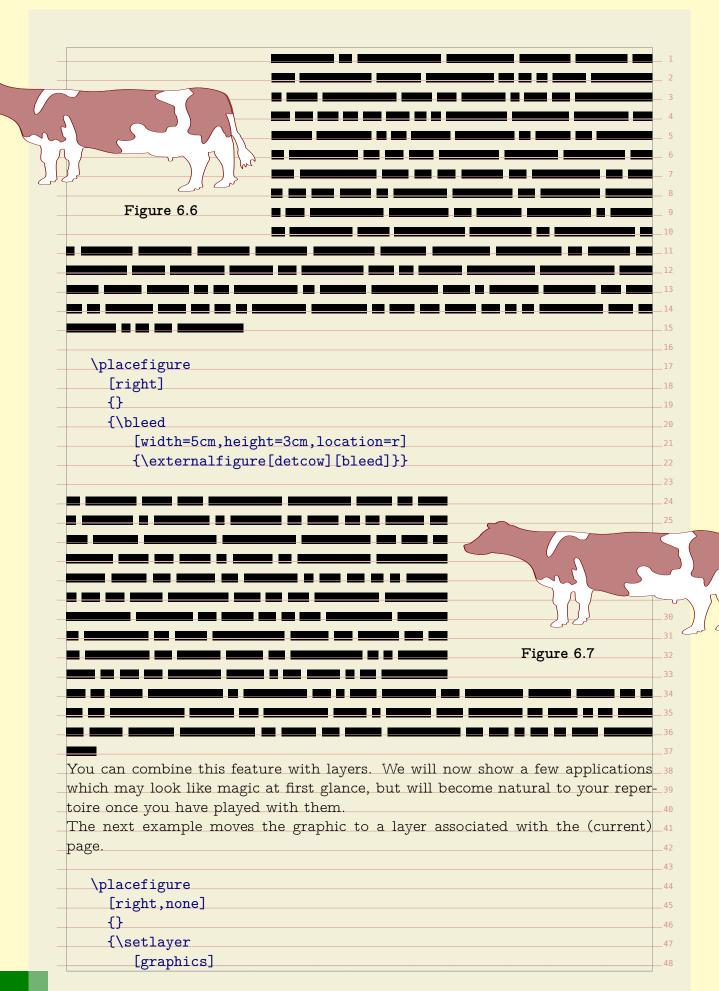
	calculation method. You can set the methods as follows:	
\	. [
\setupfloats[textmethod=0,sidemethod=1]		
Method 0 just	looks at the raw dimensions, while method 1 lessens the maximum	
•	one percent, thereby playing safe. Method 2 takes a window o	
0 0	may lead to better decisions since we may run into rounding error	
-	ed points (which is small but troublesome). Method 2 is well suited	
	ing on a grid, because there everything has to fit in a rounded	
0 -	es, which leaves no room for rounding errors.	
-	yes no	
sidemethod	2 1	
textmethod	2 0	
Λα τιου <u>marr</u> 1	now by now two can use the directives high law height denti	
· ·	now by now, we can use the directives high, low, height, deptlanguence the spacing around a side float. A real tight spacing can	
oe achieved w		
oo domicyed W		
\placefig	mo[lof+ fi+ mono][][aomo muombio]	
'I	reliert.iit.noneliaasome grabnica	
	<pre>ire[left,fit,none]{}{some graphic}</pre>	
	reflert, rt. none filsome graphic.	
	This kind of placements only make sense in special situations	
•	This kind of placements only make sense in special situations because normally you don't want the graphic to touch the text. nat this is all a user may want, you're wrong. It is not imaginary	
that graphics	This kind of placements only make sense in special situations because normally you don't want the graphic to touch the text. hat this is all a user may want, you're wrong. It is not imaginary have small pieces sticking out and/or lots of white space as part or	
that graphics	This kind of placements only make sense in special situations because normally you don't want the graphic to touch the text. nat this is all a user may want, you're wrong. It is not imaginary	
that graphics	This kind of placements only make sense in special situations because normally you don't want the graphic to touch the text hat this is all a user may want, you're wrong. It is not imaginary have small pieces sticking out and/or lots of white space as part on that case, the bounding box can be set to a smaller size.	
that graphics	This kind of placements only make sense in special situations because normally you don't want the graphic to touch the text. nat this is all a user may want, you're wrong. It is not imaginary have small pieces sticking out and/or lots of white space as part on that case, the bounding box can be set to a smaller size. Now, when handling a side float, ConTEXt first places the float	
that graphics	This kind of placements only make sense in special situations because normally you don't want the graphic to touch the text hat this is all a user may want, you're wrong. It is not imaginary have small pieces sticking out and/or lots of white space as part on that case, the bounding box can be set to a smaller size. Now, when handling a side float, ConTEXt first places the float and then starts with typesetting the paragraph, cleverly avoiding	
that graphics their design. I	This kind of placements only make sense in special situations because normally you don't want the graphic to touch the text. nat this is all a user may want, you're wrong. It is not imaginary have small pieces sticking out and/or lots of white space as part on that case, the bounding box can be set to a smaller size. Now, when handling a side float, ConTEXt first places the float and then starts with typesetting the paragraph, cleverly avoiding the graphic. However, when the graphic is virtually larger than	
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that graphics their design. I ts known size How come tha	This kind of placements only make sense in special situations because normally you don't want the graphic to touch the text. nat this is all a user may want, you're wrong. It is not imaginary have small pieces sticking out and/or lots of white space as part on that case, the bounding box can be set to a smaller size. Now, when handling a side float, ConTEXt first places the float and then starts with typesetting the paragraph, cleverly avoiding the graphic. However, when the graphic is virtually larger than, it may cover part of the preceding paragraph. It the graphic starting this paragraph does not do that? It is because	
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that graphics their design. It is known size How come that we explicitly the document \definelagoreagoreagoreagoreagoreagoreagoreagore	This kind of placements only make sense in special situations because normally you don't want the graphic to touch the text. nat this is all a user may want, you're wrong. It is not imaginary have small pieces sticking out and/or lots of white space as part on that case, the bounding box can be set to a smaller size. Now, when handling a side float, ConTEXt first places the float and then starts with typesetting the paragraph, cleverly avoiding the graphic. However, when the graphic is virtually larger than, it may cover part of the preceding paragraph. It the graphic starting this paragraph does not do that? It is because moved it to the background. This involves some preparation. A level, we define a layer called graphic. Ver[graphics][position=yes] directive tells ConTEXt that it should honour the position of the we must make sure that this layer is placed.	
that graphics their design. It is known size How come that we explicitly the document \definelay The position graphic. Next	This kind of placements only make sense in special situations because normally you don't want the graphic to touch the text. That this is all a user may want, you're wrong. It is not imaginary have small pieces sticking out and/or lots of white space as part on that case, the bounding box can be set to a smaller size. Now, when handling a side float, ConTEXt first places the float and then starts with typesetting the paragraph, cleverly avoiding the graphic. However, when the graphic is virtually larger than, it may cover part of the preceding paragraph. It the graphic starting this paragraph does not do that? It is because moved it to the background. This involves some preparation. Allevel, we define a layer called graphic. Ver[graphics] [position=yes]	

```
[left,fit,none]
     {}{\setlayer[graphics]{graphic}}
It's now a small step to more advanced movements. Say that you want to move
the graphic a little bit to the left. In that case you can tell the layer placement
to do so.
   \placefigure
     [left,fit,none]{}{\setlayer[graphics][hoffset=-12pt]{graphic}}
From this you can deduce that there is also a movement in the vertical direc- 11
tion using voffset. In addition you can anchor the graphic using the location
parameter and provide offsets.
               As soon as you run into situations where float placement is to 15
               be consistently enforced, you will feel the need for dedicate place- 16
               ment macros. For example:
   \definefloat
     [somefloat]
     [figure]
   \setupfloat
     [somefloat]
     [sidespaceafter=,
      sidespacebefore=,
      default={left,none}]
Instead of resetting the side spacing, we could have default to high, low, but this 29
way we can overload the default placement and still get zero spacing.
Throughout this manual we discuss features related to overlays and layers. These
permit you to move content around in ways that either or not depend on the text
flow. We have now come to another trick based on these mechanisms: bleeding.
When printing a document, you need to take into account that when graphics go
beyond the page boundary, you need to compensate for inaccuracies in cutting
the pages. Such graphics are called bleeding graphics and the amount of bleed is 36
often a few millimeters.
The best way to handle such graphics is to use the correct dimensions and play _{	exttt{38}}
with the edge widths and distances in combination with backspace and cut space. 39
In a properly set up layout and by using a well designed set of predefined graphic _{	ext{	iny 40}}
placements, you can handle this quite well. A bleeding figure can be defined as
follows:
   \definefloat
     [edgefigure]
     [figure]
   \setupfloat
```

[edgefigure] [default={inner,height,high,low,none}, maxwidth=4cml \defineexternalfigure [edgefigure] [width=\dimexpr\backspace+4cm-1mm\relax, lines=4] The default placement is pre-configured to have no additional vertical space and align on the height of a line (this is default behaviour so the height key is redun- 11 dant here. The 1mm in the previous definition simulates what happens when a page is cut off slightly wrong: we get an annoying gap. \placeedgefigure {\externalfigure[hacker][edgefigure]} One of the nice things about TEX is that you can fine tune dimensions pretty well. So, instead of the previous placement, which turns out rather ugly, we can come up with a better one: \setupfloat [edgefigure] [default={inner,height,high,low,none}, maxwidth=4cm, margin=\strutdepth] \defineexternalfigure [edgefigure] [width=\dimexpr\backspace+4cm+2mm\relax, height=\dimexpr3\lineheight+\strutheight\relax] This time we take no risk and add 2mm to the dimensions so that we can be sure that the edge of the graphic falls outside the page boundary. The ConTFXt resourse library modules provide means to report back the dimen- 47 sions of graphics used in a document, so that you can develop (tune) them with 48

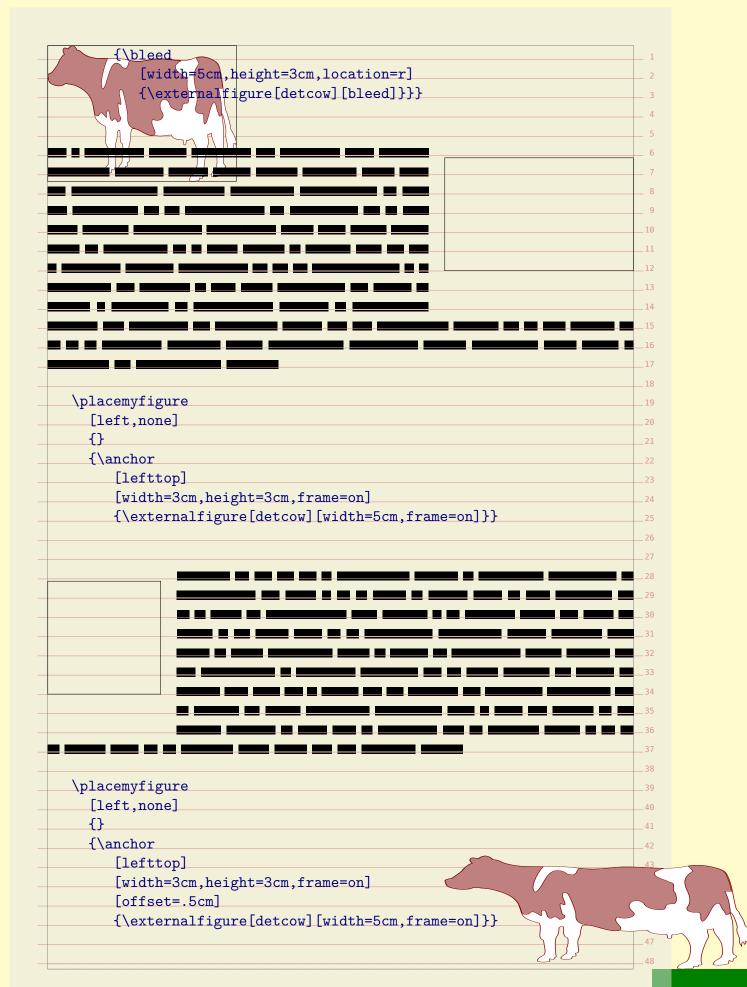
```
the proper dimensions. In practice a slightly wider than normal graphic (scaling
it horizontally a few millimeters more) does not harm the visual appearance that
much, so adapting a graphic to this kind of bleeding is not really needed.
In addition to this (rather natural) way of adding bleed to a graphic, you can
apply the \bleed macro. In the previously discussed method the figure placement
mechanisms work with the real dimensions. The bleed macro is using scaling in
a different way: from the perspective of ConTFXt the graphic remains its original
dimensions and the figure placement mechanisms will act accordingly. We will
give a couple of examples of using this macro.
Permitted bleeding locations are 1, r, t, b, 1r, b1, br, t1 and tr.
   \placesomefloat
     [left, none, fit]
     {}
     {\setupbleeding[offset=5mm]%
      \bleed[width=5cm,height=1cm,location=1]
        {\externalfigure[mill][bleed]}}
   \placesomefloat
     [left, none, fit]
     {}
     {\setupbleeding[offset=2mm]%
      \bleed[width=5cm,height=1cm,location=1]
         {\externalfigure[mill][bleed]}}
The amount of bleeding depends on the postprocessing. In the previous paragraph
we used a bleed offset of 5mm, and here we used 2mm. Because the graphic is _{	ext{	iny 40}}
scaled in order to match the bleed, it will be slightly distorted. With small values
this will go unnoticed. You can set the offset with:
   \setupbleeding[offset=5mm]
Bleeding itself is accomplished by the \bleed macro as in:
   \bleed
```

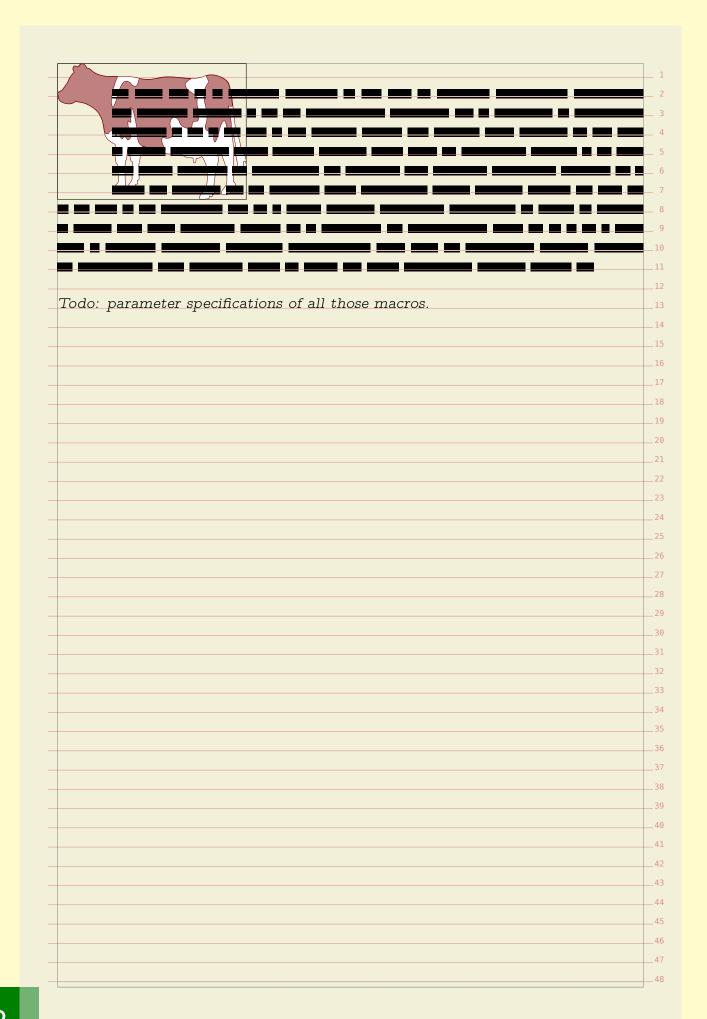
```
[width=5cm,height=1cm,location=1]
     {\externalfigure[mill][width=\bleedwidth,height=\bleedheight]}
It is kind of awkward to pass those two dimensions so here is a shorter way of
doing the same:
  \bleed
     [width=5cm,height=1cm,location=1]
     {\externalfigure[mill][bleed]}
In fact, this uses the following definition:
   \defineexternalfigure[bleed][width=\bleedwidth,height=\bleedheight]
You can influence the scaling of a graphic by setting the stretch parameters. 15
The location parameter determines the direction of the stretch: 1 (left), r (right), 16
t (top), b (bottom) or a combination of these. We will now combine the previous
example code with this knowledge.
   \placefigure
     [left]
     {}
     {\bleed
        [stretch=no,voffset=0pt,hoffset=1cm]
        {\externalfigure[detcow][bleed]}}
  Figure 6.5
   \placefigure
     [left]
     {}
     {\bleed
        [width=5cm,height=3cm,location=1]
        {\externalfigure[detcow][bleed]}}
                                                                             47
```



```
{\bleed
           [width=5cm,height=3cm,location=rb]
           {\externalfigure[detcow][bleed]}}}
You can also predefine locations where graphics (or other content) needs to be
anchored. A direct call to anchor looks as follows:
  \placefigure
     [left, none]
     {}
     {\anchor
        [text-1]
        [location=lt,hoffset=max,voffset=max]
        [width=3cm,height=3cm,frame=on]%
        {\externalfigure[detcow][width=5cm,frame=on]}}
This will anchor a graphic in one of the text layers, but at the cost of specifying
this in the document source. One way around this is to predefine anchors.
  \defineanchor[rightbottom] [text-1] [preset=rightbottom]
  \defineanchor[righttop] [text-1][preset=righttop]
  \defineanchor[leftbottom] [text-1][preset=leftbottom]
  \defineanchor[lefttop] [text-1][preset=lefttop]
We will apply this to a predefined float type.
  \definefloat[myfigure][figure]
  \setupfloat[myfigure][sidespaceafter=,sidespacebefore=]
Our previous example can now be reduced to:
  \placemyfigure
     [left, none]
     {\anchor[rightbottom]
```







The background mechanisms present in ConTFXt have evolved over time and with computers becoming faster, you can expect new functionality to show up and existing functionality to start using this technology. A simple background consist of a colored area. Many commands accept settings like: ...[background=color,backgroundcolor=red,backgroundoffset=3pt] Instead of such an area you can define one or more so called overlays: \defineoverlay[one][...] \defineoverlay[two][...] ...[background={one,two}] The name overlay comes from the fact that you stack them on top of each other. 17 A special overlay is foreground, and deep down in ConT_FXt there are more 18 predefined overlays. In the MetaFun manual you will find example of usage, so here we stick to a simple code snippet for testing this functionality: \defineoverlay[one][\green A] \defineoverlay[two][\red \framed[background=one] {1} \framed[background={one,two}] {1---2} The rather ugly result is: 1-18-2 You can construct overlays by using TEX boxing primitives or commands like 32 framed. Alternatively you can use another mechanism: layers. Layers collect 33 content and flush that when asked, for instance when an overlay is constructed. $^{ ext{ iny 34}}$ Layers can be independent of a page, or bound to a specific page number, left or 35 right hand pages. Here we look at independent layers. All these mechanisms are fine tuned for cooperating with the output routine (the 37 part of $ext{T}_{ ext{E}} ext{X}$ that deals with composing pages) and are well interact quite well $ext{38}$ with MetaPost graphics. Details of usage and tricks are revealed in this manual 39 as well as in styles that come with ConT $_{
m F}$ Xt. In this chapter we will apply layers $_{ ext{40}}$ to graphics. For this we need a few setups, like: \setupbackgrounds [page] [background=pagegraphics] Here we have set up the page background to use an overlay called pagegraphics. 47 However, instead of an overlay, we will use a layer. This layer will collect content 48

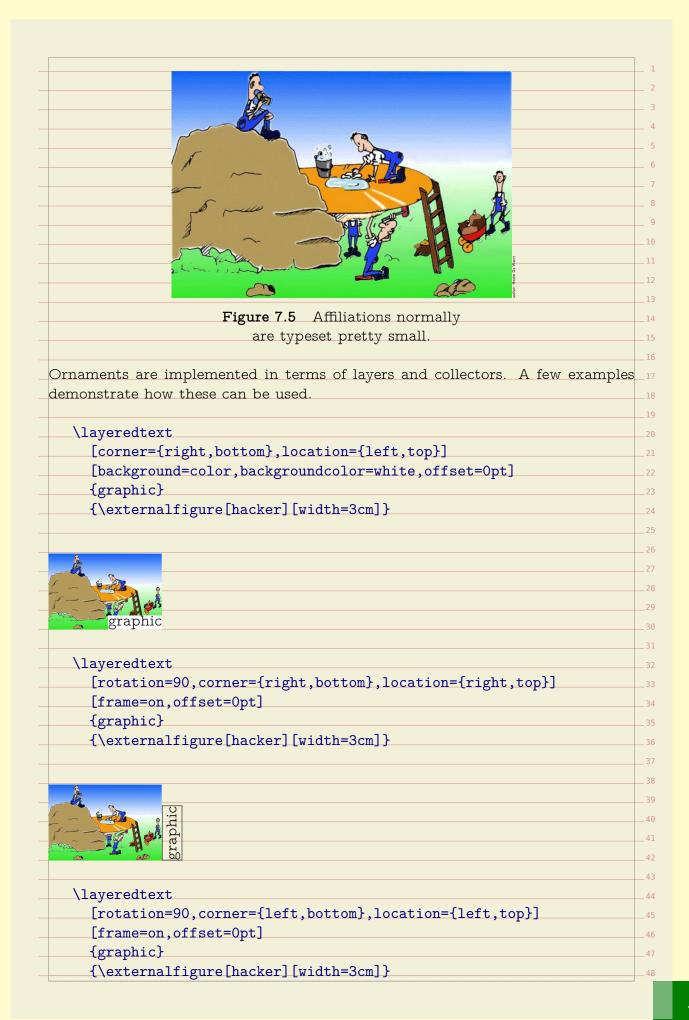
that goes into the page background. Whenever a layer is defined, an overlay is automatically defined as well. \definelayer [pagegraphics] [x=-2mm,y=-2mm, width=\paperwidth, height=\paperheight] When you fill a layer with content, you can influence the placement with the ${f x}$ and y parameters as well as hoffset and voffset, whichever you prefer. The 12 reference point and alignment are set with corner and location. Live can be made easier by using presets, especially for our intended usage. The 14 following presets are predefined. \definelayerpreset [corner={left,top}, location={right,bottom}] [lefttop] \definelayerpreset [righttop] [corner={right,top}, location={left,bottom}] \definelayerpreset [leftbottom] [corner={left,bottom}, location={right,top}] \definelayerpreset [rightbottom] [corner={right,bottom},location={left,top}] Because for this layer we have also preset the x and y, those corners are laying a 26 few millimeters outside the page area. We have preset the size as well, otherwise 27 all corners would end up in the top left corner. We will now fill this layer. Because the layer is hooked into the page, it will be flushed when the page is constructed. After the page is written to the output file, 30 the layer is emptied, unless its state is set to repeat. \setlayer [extras] [preset=lefttop] {\externalfigure[hacker]} \setlayer [extras] [preset=righttop] {\externalfigure[hacker]} \setlayer [extras] [preset=leftbottom] {\externalfigure[hacker]} \setlayer [extras] [preset=rightbottom] {\externalfigure[hacker]} Once you got the picture of layering, you will start using this mechanism for all $_{ exttt{38}}$ kind of tasks. Instead of putting layers in a background, you can also directly place them, by using one of the two (equivalent) commands: \composedlayer{identifier} \placelayer[identifier]

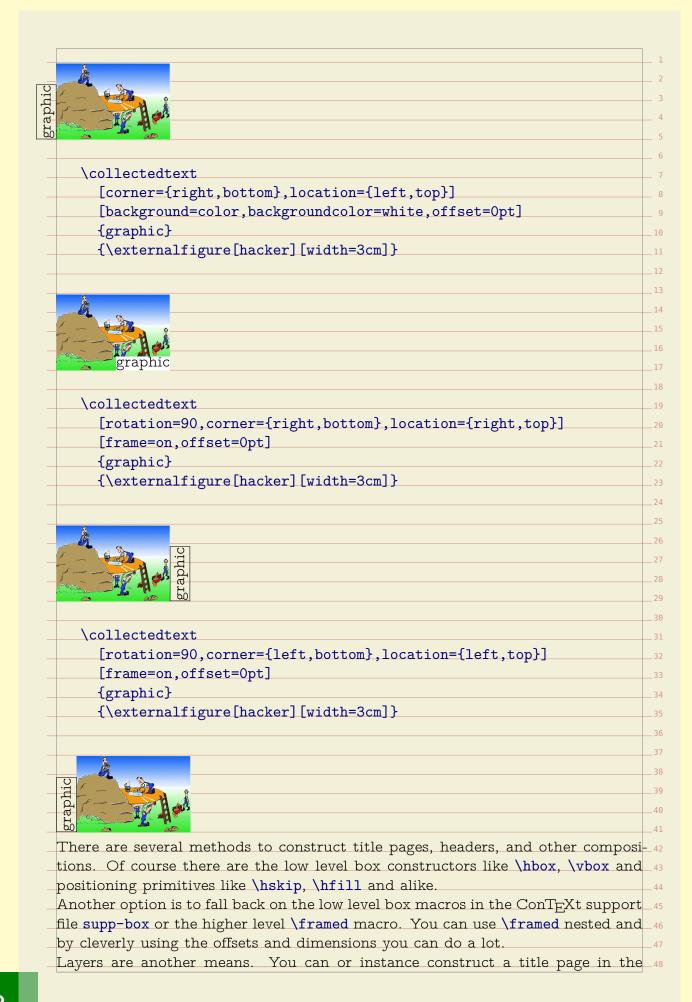
Layer are quite convenient for defining title pages, colophons, and special section heads, especially in combination with \framed.

On top of the layer mechanism we have build a few more mechanisms, like or-

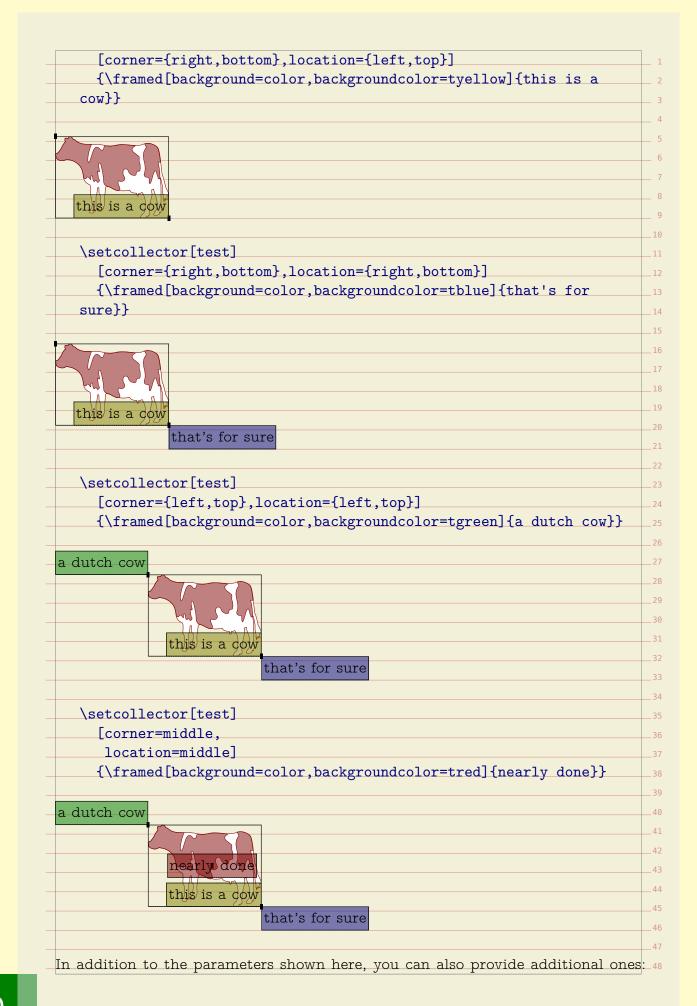


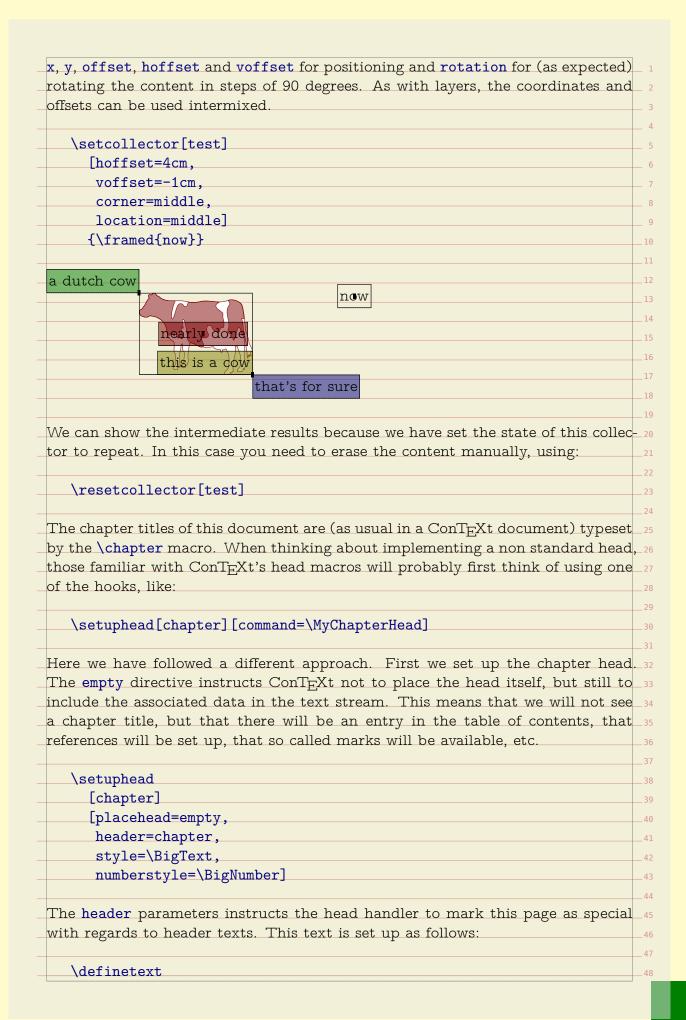
<pre>[rotation=90,corner={right,bottom},location={left,top},</pre>	
hoffset=.25ex,voffset=.25ex,alternative=a]	
[background=color,style=\ss\tfxx,backgroundcolor=white,	offset=0pt
Stabilic Stability of the Control of	
Figure 7.3 Number 3	
You need to play a bit with this mechanism in order to get a feeling f	or what the
parameters do.	
\defineornament	
[affiliation]	
[rotation=90,corner={right,bottom},location={left,top},	
hoffset=.25ex,voffset=.25ex,alternative=b]	
[background=color,style=\ss\tfxx,backgroundcolor=white,	offset=Opt
	1
Figure 7.4 Number 4	
Because the text is normally typeset quite small, you'd better use a fo	nt that can
because the text is normally typeset quite small, you dibetter use a re	
ve scaled down a lot. \definefont[AffiliationFont][Sans sa .25]	
<pre>ve scaled down a lot. \definefont[AffiliationFont][Sans sa .25] \defineornament</pre>	
\definefont[AffiliationFont][Sans sa .25] \defineornament [SomeAffiliation]	
<pre>ve scaled down a lot. \definefont[AffiliationFont][Sans sa .25] \defineornament [SomeAffiliation] [rotation=90,corner={right,bottom},location={right,top}</pre>	
<pre>\definefont[AffiliationFont][Sans sa .25] \defineornament [SomeAffiliation] [rotation=90,corner={right,bottom},location={right,top} hoffset=125ex,alternative=b]</pre>	
<pre>ve scaled down a lot. \definefont[AffiliationFont][Sans sa .25] \defineornament [SomeAffiliation] [rotation=90,corner={right,bottom},location={right,top}</pre>	
<pre>de scaled down a lot. \definefont[AffiliationFont][Sans sa .25] \defineornament [SomeAffiliation] [rotation=90,corner={right,bottom},location={right,top} hoffset=125ex,alternative=b] [style=AffiliationFont,offset=0pt]</pre>	
<pre>de scaled down a lot. \definefont[AffiliationFont][Sans sa .25] \defineornament [SomeAffiliation] [rotation=90,corner={right,bottom},location={right,top} hoffset=125ex,alternative=b] [style=AffiliationFont,offset=0pt] This affiliation is used as: \placefigure</pre>	
<pre>de scaled down a lot. \definefont[AffiliationFont][Sans sa .25] \defineornament [SomeAffiliation] [rotation=90,corner={right,bottom},location={right,top} hoffset=125ex,alternative=b] [style=AffiliationFont,offset=0pt] This affiliation is used as: \placefigure {Affiliations normally are typeset pretty small.}</pre>	
<pre>de scaled down a lot. \definefont[AffiliationFont][Sans sa .25] \defineornament [SomeAffiliation] [rotation=90,corner={right,bottom},location={right,top} hoffset=125ex,alternative=b] [style=AffiliationFont,offset=Opt] This affiliation is used as: \placefigure {Affiliations normally are typeset pretty small.} {\SomeAffiliation}</pre>	
<pre>de scaled down a lot. \definefont[AffiliationFont][Sans sa .25] \defineornament [SomeAffiliation] [rotation=90,corner={right,bottom},location={right,top} hoffset=125ex,alternative=b] [style=AffiliationFont,offset=0pt] This affiliation is used as: \placefigure {Affiliations normally are typeset pretty small.}</pre>	





	definelayer	
	[titlepage]	
	[width=\textwidth,	
	height=\textheight]	
\	Asetlayer	
	[titlepage]	
	[preset=righttop,location={left,bottom},y=1cm,x=1cm]	
	{\definedfont[Regular at 60pt]Welcome}	
,	\setlayer	
	[titlepage]	
	[preset=rightbottom,location={right,top},y=2cm,x=2cm]	
	{\definedfont[Regular at 30pt]By Me}	
Thi	s just fills the layer. Placement is done with:	
	Astartstandardmakeup	
	\flushlayer[titlepage]	
	Astopstandardmakeup	
or a	lternatively:	
,	\setupbackgrounds[text][background=titlepage]	
	\startstandardmakeup \stopstandardmakeup	
	\setupbackgrounds[text][background=]	
	ther way to collect content is to use a collector. A collector starts out empt	У
witł	n:	
\	definecollector[test][state=repeat]	
We	can now stepwise fill this collector. For educational purposes we've turn o	of
trac	ing so that you can see what the anchor points.	
\	\setcollector[test]	
	[location={right,bottom}]	
	{\externalfigure[detcow][frame=on,width=3cm]}	
~		
~		
'		



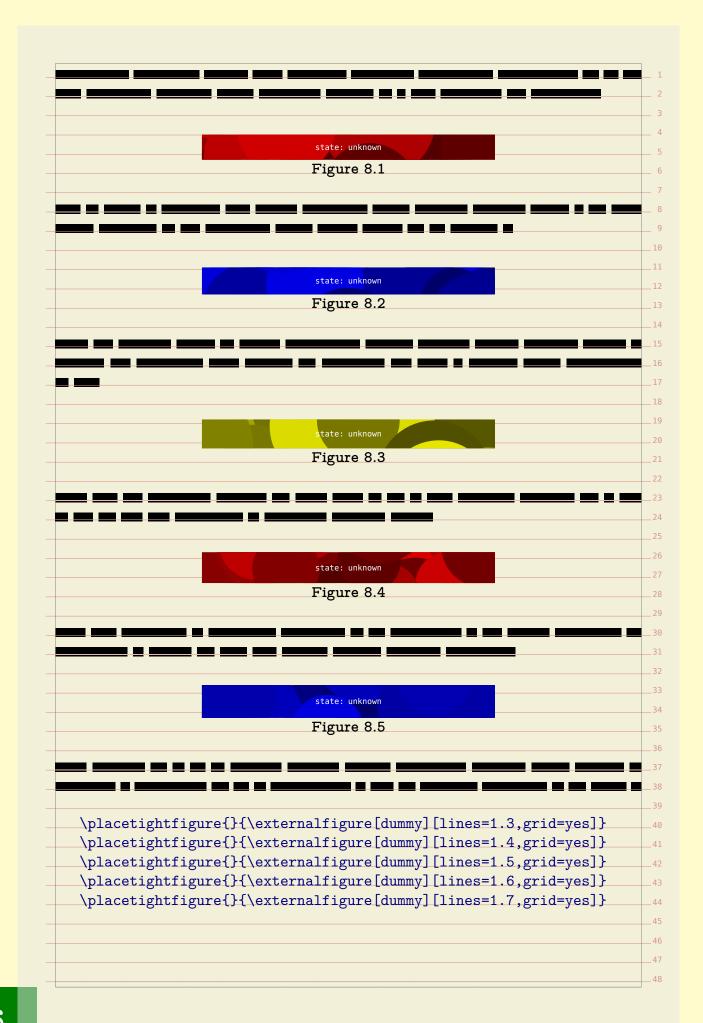


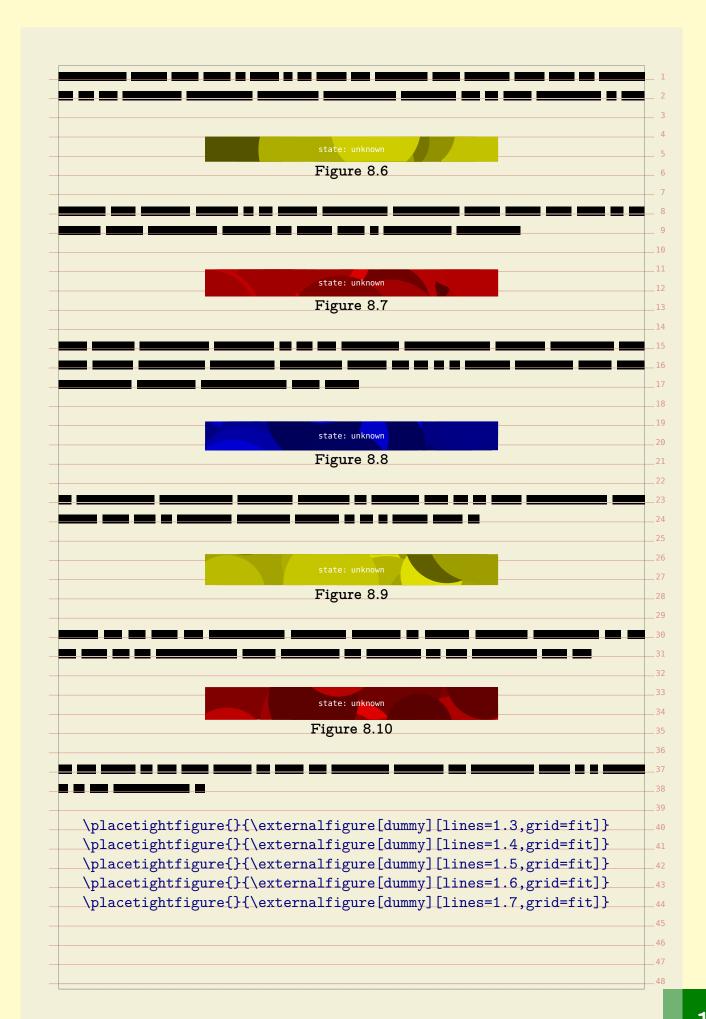
```
[chapter]
     [header]
     [\setups{chapter}]
The setups are just series of typesetting instructions. For the sake of readability,
we have split them up.
  \startsetups chapter
     \setups[chapter:title]
     \setups[chapter:number]
     \setups[chapter:finish]
  \stopsetups
The setups will use a dedicated layer for the chapter title:
  \definelayer
     [chapter]
     [width=\dimexpr\makeupwidth+\cutspace\relax,
      height=\headerheight]
The following code uses a macro \setlayerframed. This is a combination between
\setlayer and \framed. We use two placement macros to typeset the title and
number. When doing so, we need to take care of both numbered chapters and
unnumbered titles.
  \startsetups chapter:title
     \setlayerframed
       [chapter]
       [x=\dimexpr\makeupwidth+\cutspace\relax,location={left,bottom}]
       [height=\headerheight,
        foregroundcolor=white,
        background=color,
        backgroundcolor=blue,
        frame=off,
        offset=none,
        align={right,lohi}]
       {\hbox spread .5\cutspace
          {\hss}
                                                                            40
           \doiftextelse{\placeheadtext[chapter]}%
             {\placeheadtext[chapter]}%
             {\placeheadtext[title]}%
           \hss}\space
        \vskip.5cm}
                                                                            45
  \stopsetups
```

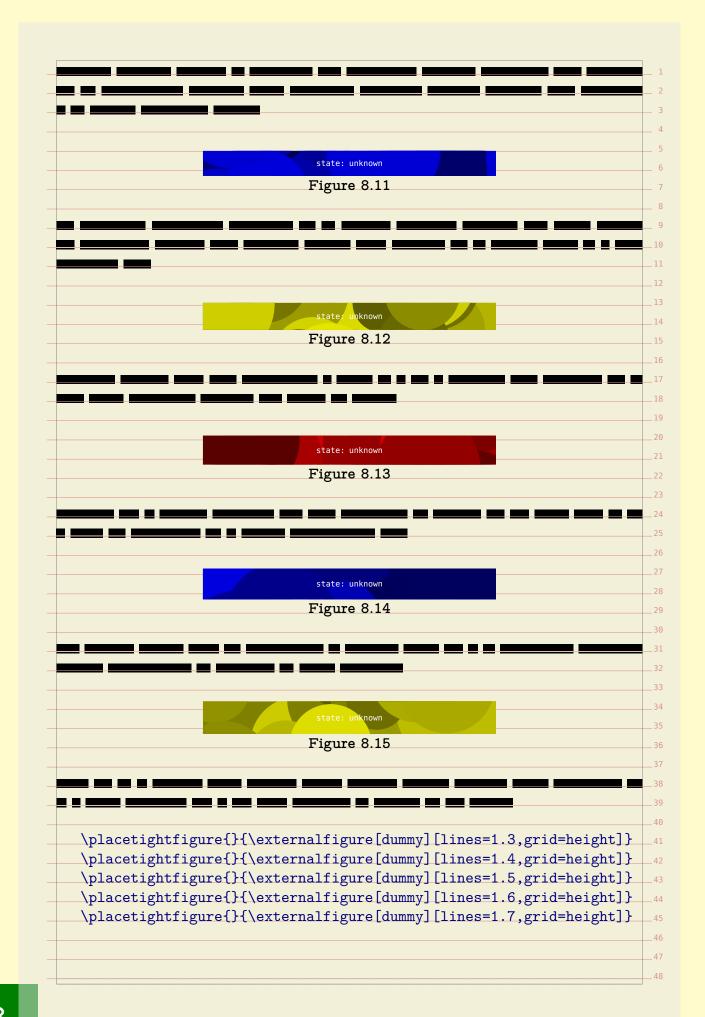
```
Definitions like these may look complicated but in practice you will construct
them piece-wise.
   \startsetups chapter:number
     \setlayerframed
        [chapter]
        [x=\dimexpr\makeupwidth+\cutspace\relax,
        y=\vsize,
        location={left,bottom}]
        [width=\dimexpr\cutspace-\rightmargindistance\relax,
        height=\dimexpr\cutspace-\rightmargindistance\relax,
        foregroundcolor=white,
        background=color,
        backgroundcolor=red,
        frame=off,
        offset=none,
        align={middle,lohi}]
       {\hbox to \hsize
           {\hskip.5cm\hss
            \doifmode{*bodypart}{\placeheadnumber[chapter]}%
   \stopsetups
The finishing touch is just a dummy frame with the chapter background. We
could have used the header text background instead.
   \startsetups chapter:finish
     \framed
        [width=\makeupwidth,
        height=\headerheight,
        background=chapter,
        frame=off]
       {}
   \stopsetups
As the title of this manual suggests: it's in the details. Most of our time is spent in 40
optimizing spacing issues. If you're designing the layout yourself, for a large part 41
you can fall back on the consistent spacing provided by T_{
m F}X, i.e. think in terms _{42}
of em's, ex's and fractions or multiples of \bodyfontsize, as well as base you're 43
dimensions on those provided by the layout. When dealing with translating a dtp
layout into something T_{
m E}X, definitions like the above will often look more messy. 45
                                                                               47
```

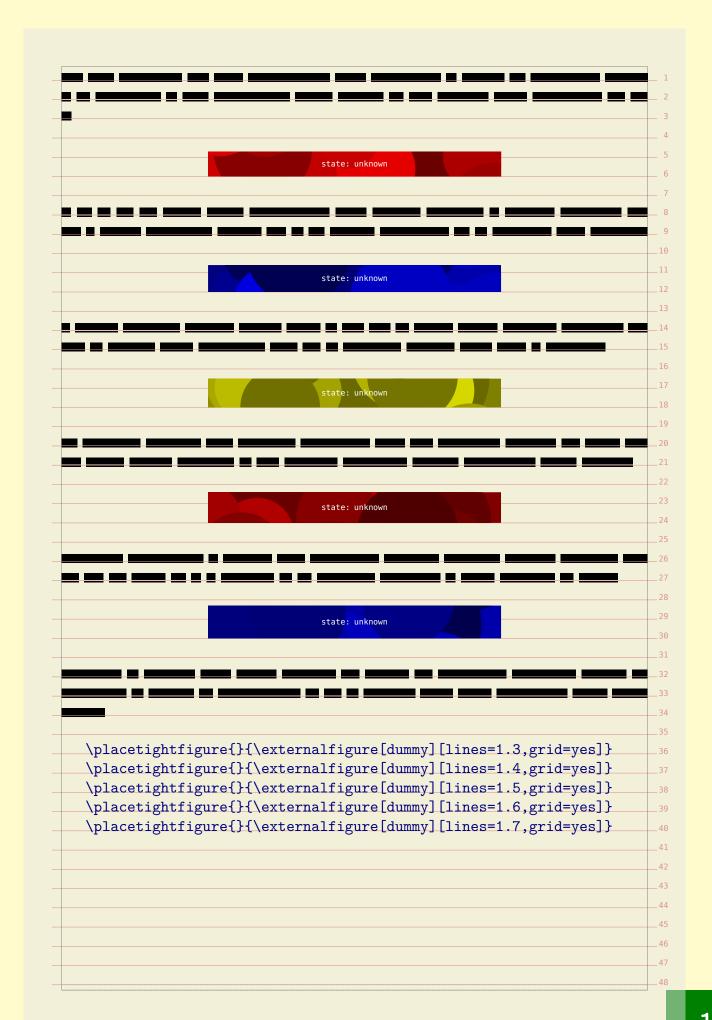
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	L	_1	3
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-		_2	3
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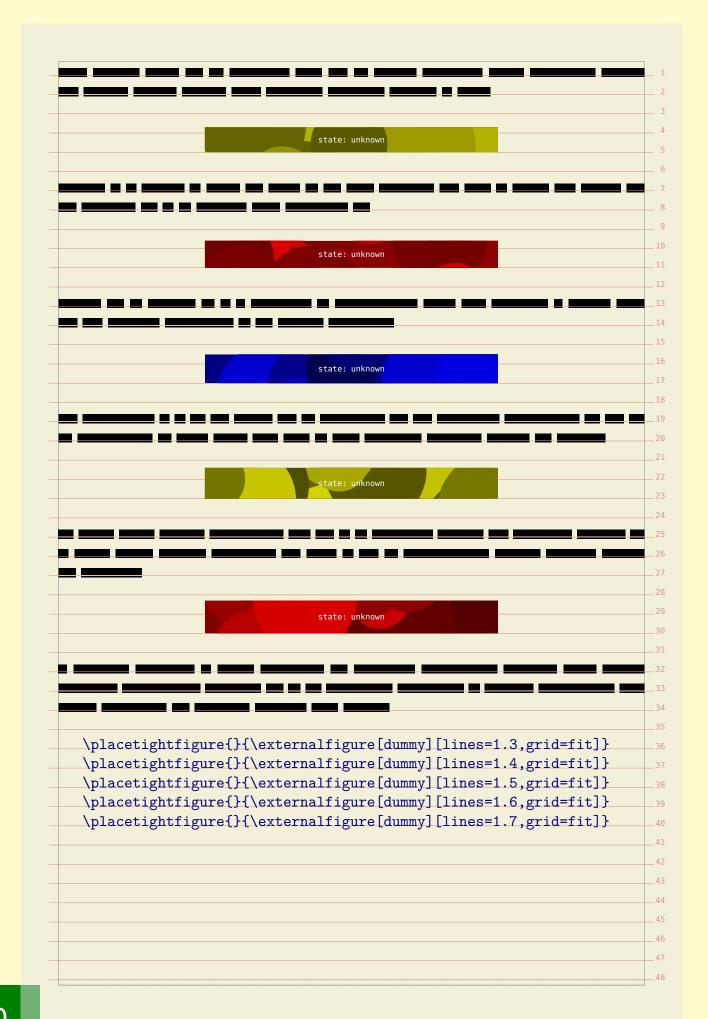
In this manual we pay quite some words on ways to snap your content on a grid	. 3
When dealing with grids, we often run into conflicting situations where we have	4
to make the best of it. Let's again deal with an aspect of graphics.	5
One of the strong points of $T_{ m E}X$ is that it can deal with graphics automatically	7, 6
which means that you seldom have to tweak dimensions or placements unless	7
you're dealing with grids. In that case you need to make sure that the height of	8
graphics consistently match the height of lines (or multiples of lines). It is for	
this purpose that the graphic inclusion macro has a grid entry.	10
We will illustrate its usage using a dedicated figure class where we have set the	11
space between figure and caption to zero.	12
	13
\definefloat[tightfigure][tightfigures][figure]	14
\setupcaption[tightfigure][inbetween=]	15
	16
The grid parameter controls rounding of the height of a graphic in the following	
way:	18
	19
yes safe rounding to an equal number of lines	20
fit tight rounding to an equal number of lines	21
height same as yes but incremented by linedepth	22
	23
On the next pages we demonstrate the effects of these settings. At the bottom	
of a page we show the placement commands. On the last pages we've hidden the	
captions with:	26
	27
\setupfloat[tightfigure][default={here,none}]	28
(5004)11040[018/0118410][4014410 (10010)1010]	29
As you will notice, the height option is handy when the caption is positioned	
directly under the graphic.	31
5-10-00-1)	32
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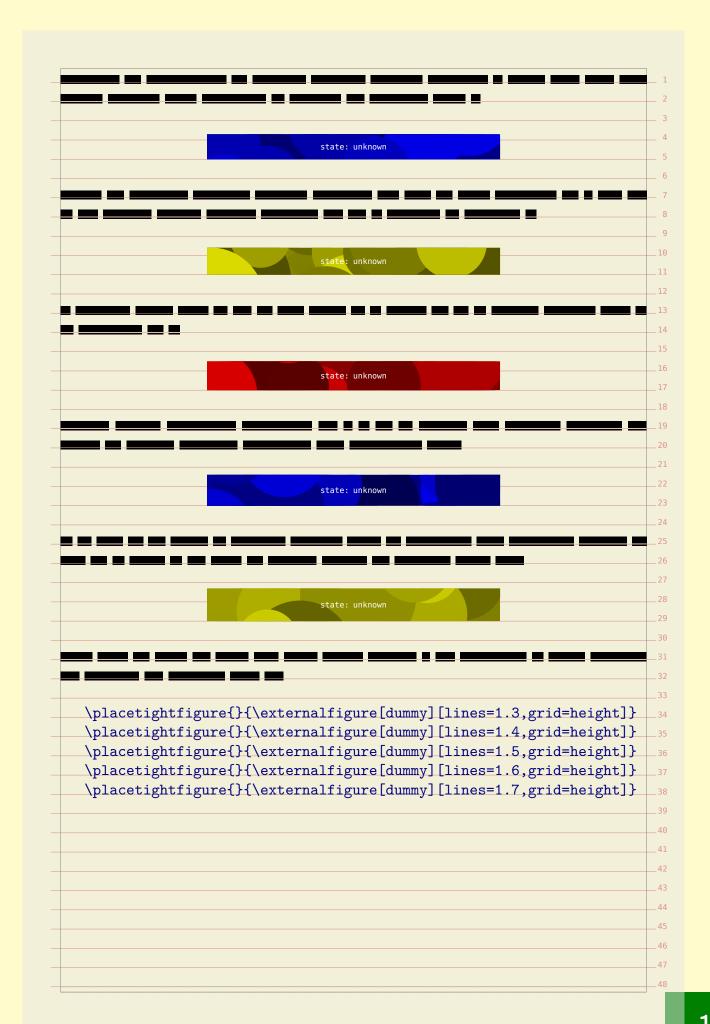


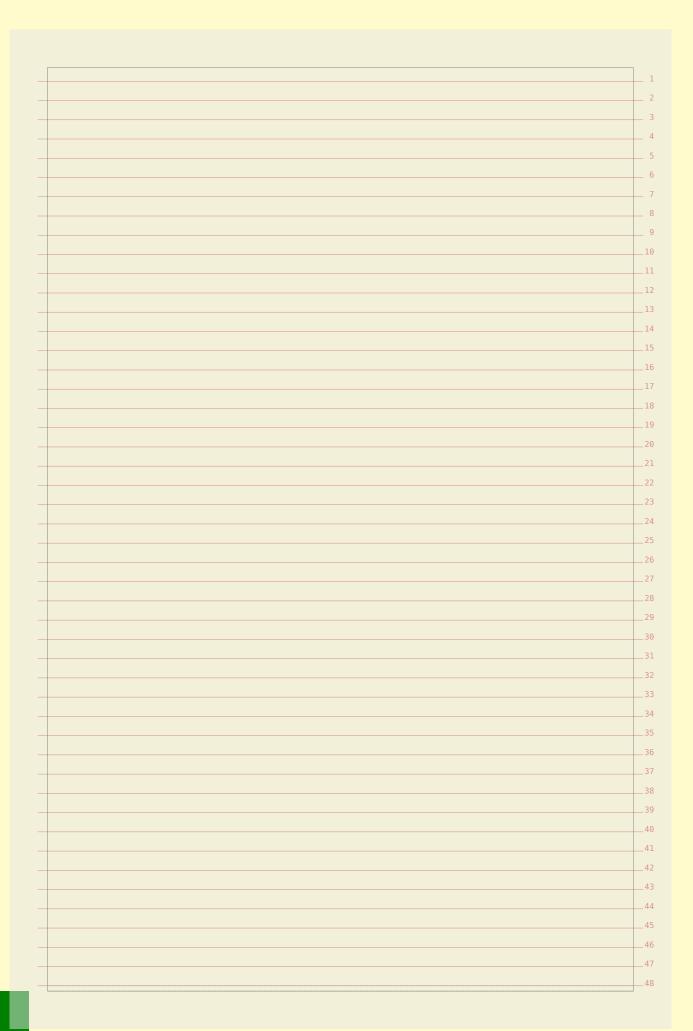


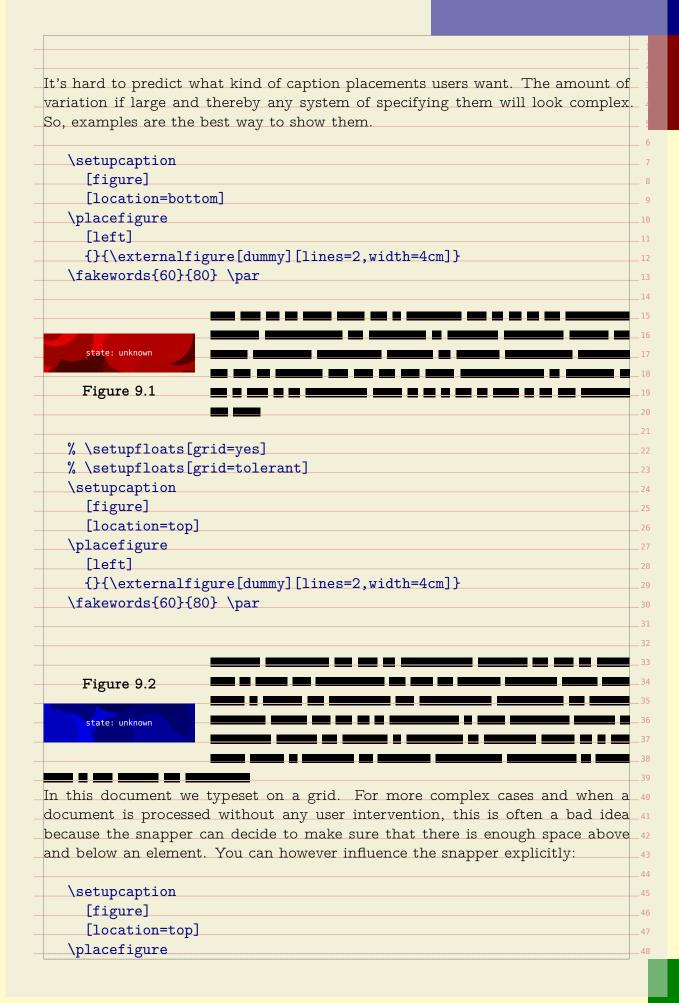






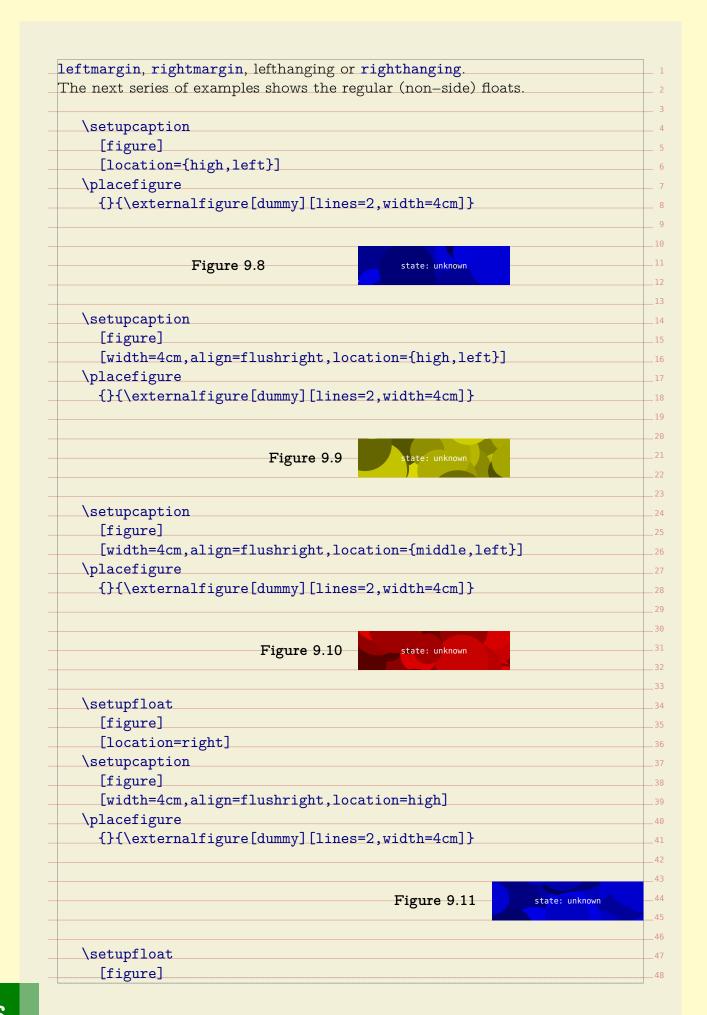


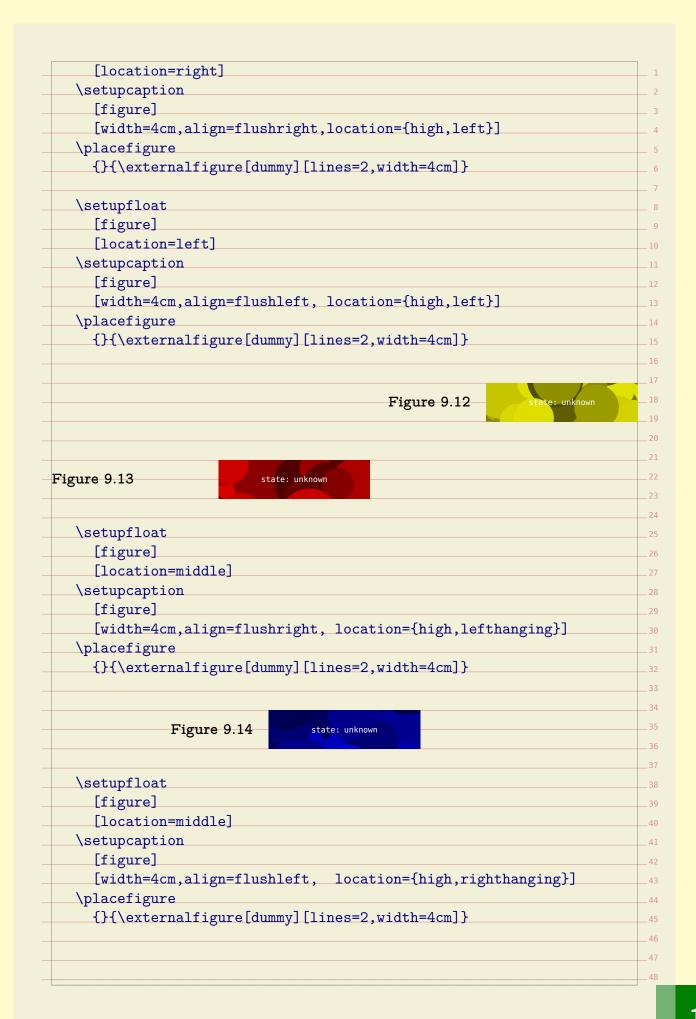






```
\placefigure
                 [left]
                 {}{\externalfigure[dummy][lines=2,width=4cm]}
               \fakewords{60}{80} \par
Figure 9.5
                 state: unknown
               \setupcaption
                 [figure]
                 [width=4cm,align=flushleft,location={high,righthanging}]
               \placefigure
                 [right]
                 {}{\externalfigure[dummy][lines=2,width=4cm]}
               \fakewords{60}{80} \par
                                                                                            <sup>2</sup>Figure 9.6
               \setupcaption
                 [figure]
                 [width=4cm,align=flushleft,location={high,rightmargin}]
               \placefigure
                 [right]
                 {}{\externalfigure[dummy][lines=2,width=4cm]}
               \fakewords{60}{80} \par
                                                                                            <sup>42</sup>Figure 9.7
                                                                            state: unknown
            The location of a caption is determined by the keywords top, bottom and for the 47
           side captions high, middle, low, either or not in combination with left, right, 48
```





```
Figure 9.15
                                                state: unknown
                \setupfloat
                   [figure]
                   [location=right]
                \setupcaption
                   [figure]
                   [width=4cm,align=flushleft, location={high,rightmargin}]
                \placefigure
                   {}{\externalfigure[dummy][lines=2,width=4cm]}
                                                                                             <sup>15</sup>Figure 9.1
                                                                             state: unknown
                \setupfloat
                   [figure]
                   [location=left]
                \setupcaption
                   [figure]
                   [width=4cm,align=flushright,location={high,leftmargin}]
                \placefigure
                   {}{\externalfigure[dummy][lines=2,width=4cm]}
Figure 9.17
                   state: unknown
                \setupfloat
                   [figure]
                   [location=middle]
                \setupcaption
                   [figure]
                   [width=4cm,align=flushright,location={high,outermargin}]
                                                                                            _36
                \placefigure
                   {}{\externalfigure[dummy][lines=2,width=4cm]}
                                                                                             40
Figure 9.18
                                                state: unknown
                \setupfloat
                   [figure]
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                   [location=middle]
                \setupcaption
                   [figure]
```

\Placefigure {\}{\externalfigure[dummy][lines=2,width=4cm]}} the innermargin and outermargin are special cases. They adapt to the kind age.		n=flushleft, location={high,innermargin}]
State: unknown The innermargin and outermargin are special cases. They adapt to the kind	\placefigure	
The innermargin and outermargin are special cases. They adapt to the kind	{}{\externaliigi	<pre>ire[dummy][lines=2, widtn=4cm]}</pre>
The innermargin and outermargin are special cases. They adapt to the kind		
The innermargin and outermargin are special cases. They adapt to the kind		
		State: unknown
	The innermargin and o	outermargin are special cases. They adapt to the kind
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About this document

		1
		2
•	This document is typeset in ConTEXt using LuaTEX with MetaPost. We use only	3
	one font: the Computer Modern Typewriter. The verbatim portions of the text	
	are typeset in its mono spaced variant. One of the reasons that I chose this font is	
	that we need a mono spaced font to typeset the example code, and the Computer	
	Modern Typewriter is one the best there is. This font combines well with many	
	other typefaces, but the sometimes excessive use of different fonts (and sizes) in	
	the styles that I have to implement made me long for simplicity. And so I decided	
	to stick to one font. A careful reader will notice that this document has character	
ľ	protruding enabled (resulting in hanging punctuation).	11
	We use a couple of colors. Again, I went for simplicity and use rather primary	
	colors, although I do use them in transparent variants as well.	13
	There is not much more to say, apart from that I want to thank our customers	
	as well as $ConT_{\hbox{\it E}}Xt$ users for asking me to implement dtp competing styles and	
	features. Their demands drive $ ext{ConT}_{ ext{E}} ext{Xt}$ in directions we could not have foreseen	16
7	when we started its development.	17
1	We use a (transparent) gray background behind the text so that we have an	18
j	ndication where the text area is positioned relative to the page. It also enables	19
h	is to comfortably turn on the grid.	20
	Some features shown here are relatively new and therefore they occasionally are	21
	mproved. As a result some aspects of their functionality may change.	22
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CONTEXT October 15, 2017