

ConT_EXt Mark IV

Joaquín Ataz-López

ConT_pXt Mark IV
Version 1.6 [2 2021]

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English Translation: A good friend who wishes to remain anonymous.

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- 18 2020: Version 1.0 (Spanish only): Original document.
- 23 2020: Version 1.1 (Spanish only): Correction of minor errors, typos and misunderstandings by the author.
- 3 2020: Version 1.15 (Spanish only): More errors, typos and misunderstandings.
- 5 2020: Version 1.16 (Spanish only): More errors, typos and misunderstandings as well as some very minor changes to make the text clearer (I hope).
- 6 2020: Version 1.17 (Spanish only): The number of minor errors I am finding is incredible. I would just need to stop re-reading the document to find no more!
- 21 2020: Version 1.5 (Spanish only): Introduction of suggestions and correction of errors reported by NTG-context users.
- 2 2021: Version 1.6: Corrections suggested after a new and careful reading of the document, on the occasion of its translation to English. This is the first version in English.

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*

, ConT_EXt, , T_EX, , , 1977 1982 . .

`\ConTEXt -- , . , , , , , , , , \ConTEXt , . , , , «». ,`
Donald E. Knuth, T_EX (, \ConT_EXt):

-- , - . TEX - ; , , .

$\text{ConT}_{\text{E}} \text{Xt}, , (), , , , , , , , \text{ConT}_{\text{E}} \text{Xt}, , , , , \text{ConT}_{\text{E}} \text{Xt}$
 $, -- -- ; , , , :$

ConT_EXt , . . , ConT_EXt -- «ConT_EXt Standalone»² --, 180 PDF (,), ,
; Pragma ADE (, ConT_EXt) (, 2020) 224 , «ConT_EXt Standalone», . . ,
ConT_EXt, . . , . 56 PDF, «ConT_EXt Standalone» «manuals», , ConT_EXt.
«ConT_EXt Mark IV, Excursion». . . , ConT_EXt.

, , , ConT_FXt «Excursion», .

2001, [Pragma ADE web site](#); , , , (), CONTEXT (Mark II), .

2013 , , , ConT_EXt Mark II, ConT_EXt Mark IV (), , , , «ConT_EXt Standalone». , , - ConT_EXt , «ConT_EXt Mark IV, Excursion». ConT_EXt , [wiki](#), , , Mark II, Mark IV . ConT_EXt³ , , .

, : ContExT «Excursion», 2013 , : ; , , « ContExT Mark IV» « ContExT Mark IV». , , , - ContExT; , , () , , , . ContExT, , , .

-, , , , , : ConT_{Ext} , , , : , - (, --), -, , ConT_{Ext} , , , , .

’ • ’ ’ ’ ’ ’ ’ •

ConTExt, , , , , , , , . , , , , .

joaquin@ataz.org. () ,
 : , ConTExt, . , „conjecture” . 4
 : 5

TeX , ConTeXt , TeX LaTeX (TeX), ConTeXt . ConTeXt .

Context ; - , « », ,, ,, , ,, ,,

Cont_{Ext} , , , , , Cont_{Ext} , , , , ,
 , , , , .

* / ConTeXt „The TeXBook“, TeX. ; , , , .

2 Standalone», . [Appendix](#) , .

3. section 3.6.

⁴ , (<https://es.dreamstime.com/>), , .

⁵ (<https://www.freepik.es/>), .

, , ConT_EXt T_EX,, , ConT_EXt T_EX; , , , , , ConT_EXt T_EX; , ,
 , T_EX.

, :

- , , ConT_EXt, , , , ConT_EXt, , ConT_EXt.
 , , .. , ; T_EX, IAT_EX, 3 4. :
 - , ConT_EXt(3), , , , IAT_EX ConT_EXt. , , , , IAT_EX , , ConT_EXt
 .
 - , ConT_EXt (4), T_EX.
- , 5 9, , ConT_EXt.
 - , -- , . 5 6.
 * :,, , (,) .. , , , .
 * , . , , , .
 - 7 8 , ConT_EXt . 7 (), 8 -- , ; , , , ConT_EXt, ConT_EXt «».
 - , 9 , , - () (). (links), . () , ConT_EXt .
 - , 8, , 7. , , , , . . .
 , (10) . , (,). , ConT_EXt, ; , , , ConT_EXt , :
 - 10 11 , : , , , , , ... , , , : , , - , .
 - 12 , , ; - : , , , ..
 - , 13 , : , , .
- . ConT_EXt, , -- , , ConT_EXt, .
 : , (...), XML, Lua, , MetaPost, .. , ConT_EXt , « ConT_EXt Mark IV»;
 , , , , : , , 300 , . , , ConT_EXt , , . , , () , , , , ,
 , . . , , , ; , , , . . .

, , Oetiker, Partl, Hyna Schlegl, , IAT_EX. «The Not So Short Introduction to
 IAT_EX 2_ε». , : , , , IAT_EX ConT_EXt. IAT_EX; -, ConT_EXt, , . ,
 , , ..

Joaquín Ataz-López
 Summer 2020

I ConT_EXt

1.1 ConT_FXt?

- **Context** , , , , , **Context:**

• , ConTeXt , , , ConTeXt. -, , , PDF, ConTeXt , .

1.2

. XIX, , , ; , , .

• , , , , • , , , , , , , • • , , , •

1.3

, , . , , , , , -- HTML, -. HTML- - , , , . HTML, -, , , «HTML», . HTML ; , XML, : , , , .. , (SVG, TikZ MetaPost), (MathML), (Lilypond MusicXML), , .. , , T_EX .

2

1. `TeX`. `PlainTeX 900`, `ConTeXt 3500`; , , 4000. - `ConTeXt`, , .
, , , , , , . , `ConTeXt` , : `\bi`, `\italicbold` `\bolditalic`.
2. `MetaPost`, , `MetaFont`, , , , `Knuth TeX`.
3. `MetaPost`, , `METAFONT`, , , , `TeX`.
4. , `Perl` (), `Ruby` (,) `Lua` ().
5. , `TeX`, `MetaPost`, `Lua XML`, .
, ? . . `ConTeXt` . , `ConTeXt` , .
- , `ConTeXt` -- « », . , `ConTeXt` .
, `ConTeXt` -- , `TeX`, - `TeX`, , , , .
`ConTeXt`, , , `TeX`. `TeX`, , , , () . `ConTeXt` , - `TeX`, , , , , , , .

1.5.1 ConT_EXt

ConT_EXt 1991. Hans Hagen Ton Otten «Pragma Advanced Document Engineering», Pragma ADE. , T_EX Pragmatex, , , . , . , . 1994 , , 1996 Hans Hagen «ConT_EXt». , «Text with T_EX» («con», «»), () «CONTEXT». , , «T_EX», «text» «context».

, ConT_EXt „context“, „contech“, .

2005, , ConTeXt Mark II, „II“, , , „I“, . , , , , . ,
«official» ConTeXt .

ConT_EXt Mark II PdfT_EX T_EX engine. , X_ET_EX ConT_EXt Mark II , , PdfT_EX.
 LuaT_EX, ConT_EXt, . ConT_EXt Mark IV, 2007, LuaT_EX. , , ConT_EXt
 LuaT_EX, , ConT_EXt, Hans Hagen Taco Hoekwater, LuaT_EX. ConT_EXt Mark IV
 LuaT_EX . ConT_EXt LuaT_EX , T_EX; , - LuaT_EX, ConT_EXt.

Mark II Mark IV , , , , : . , - , . , , , , .

Mark II Mark IV. - CONTEXT, CONTEXT (). , Mark II, -- Mark IV; , , Mark II. , .

Mark II Mark IV. ConT_EXt wiki, ConT_EXt (). , Mark II, -- Mark IV; , , Mark II. , .

Mark II Mark IV.

ConT_EXt, , Mark II, , Mark IV, , , Mark II, «.mkii», , Mark IV,
-- «.mkiv». , ConT_EXt, «.tex», , ConT_EXt .

ConT_EXt, «ConT_EXt Standalone», -- -- . Mark II «texexec», Mark IV -- «context».

, «context» «texexec», , «mtxrun», , Lua.

Mark II, Mark IV, , , Mark IV; , « » , - . . . , --
«ConTeXt Standalone» -- (. [Appendix](#) , , «ConTeXt Standalone»).

LMTX Mark IV

ConTeXt, , , ConTeXt Mark IV; , Mark IV , Mark IV Mark II.



, Mark IV, Mark VI, Mark IX Mark XI. Mark VI ConT_EXt wiki, , Mark IV
 , T_EX, , .

, , , ConT_EXt (ConT_EXt verse?) LMTX, , LuaMetaT_EX: T_EX, LuaT_EX, ;
 , LMTX , ConT_EXt Mark IV.

LMTX 2019, , - Mark IV. ; LuaT_EX LuaMetaT_EX. [Appendix](#) ,
 ConT_EXt, ([section 3](#)).

1.5.2 ConT_EXt L^AT_EX

, , T_EX, L^AT_EX, ConT_EXt , , , T_EX; , , , : , () , , , . , L^AT_EX
 ConT_EXt , . L^AT_EX, T_EX, , , L^AT_EX. , T_EX T_EX , . , ConT_EXt , .
 , , , . ConT_EXt , T_EX, L^AT_EX.

, , . L^AT_EX, , T_EX. - . , , . L^AT_EX, : , L^AT_EX , , , - , ; ,
 , . , L^AT_EX , , .

L^AT_EX, , ConT_EXt , T_EX, , . ConT_EXt , , , , , .

, ConT_EXt , , L^AT_EX, -: ConT_EXt , , , , -, ConT_EXt.

, . . , , , L^AT_EX; , , , -, , , , ConT_EXt, ; , , .

1.5.3 ConT_EXt

ConT_EXt, (), , , (ConT_EXt), : , , , , , , , , , «context»
 -- , , , , . () , , , , , , , .

, ConT_EXt , : , , , , ConT_EXt , , , , , , , ConT_EXt , , . , , , ,
 , , , , , - :

1. «» , , , , , . , , , : ; .

2. , .

3. , ConT_EXt, .

4. , , () : , , , , , .

5. () , , , .

6. , , " , , , , , .

7. , , , , , .

8. .

, , , ConT_EXt, , , , , , . , , , ConT_EXt, , 3500 , ConT_EXt . ,
 , , , , , , , , 15 20 , . , , , ConT_EXt, , , ConT_EXt.

1.5.4 ConT_EXt

, ConT_EXt, , Wiki, , - . , , ConT_EXt , «» , , , . ConT_EXt,
 - «» ; «tex», «Mark IV», «Hans Hagen» (ConT_EXt), «Pragma ADE», - . , wiki:
 «contextgarden».

- ConT_EXt , «ConT_EXt Standalone», [TeX -- LaTeX Stack Exchange](#) ConT_EXt
 (NTG-context). , ConT_EXt , - , , , .

: 2.1 : :: 2.2 ; 2.3 ; 2.4 , «context»; 2.5 ;

ConTeXt, .

2.1 :

:

, .

. , , . : , , , (gratis), (libre), T_EX, -- .. , ; , , ConTeXt . , .

GNU Emacs, ; , « Emacs », « Emacs ». GNU Emacs AucTeX T_EX , , AucTeX L^AT_EX, ConTeXt. GNU Emacs AucTeX , , ; , . , GNU Emacs , , , , . , Richard Stallman, GNU Free Software Foundation.

GNU Emacs + AucTeX, , , - Scite TexWorks. , , ConTeXt, , , ConTeXt, «ConTeXt Standalone» , . TexWorks, , T_EX . ConTeXt , «ConTeXt Standalone» .

, , , OpenOffice Writer Microsoft Word. , , , , « (txt) », , , , ConTeXt.

1. ConTeXt . T_EX (L^AT_EX), , ConTeXt. ,

\$> context --version

, -- , («\$>»), . , : , , .

ConTeXt, - :

```
mtx-context | ConTeXt Process Management 1.03
mtx-context |
mtx-context | main context file: /home/jq/context/LMTX/tex/texmf-context/
| tex/context/base/mkiv/context.mkiv
mtx-context | current version: 2020.04.30 11:15
mtx-context | main context file: /home/jq/context/LMTX/tex/texmf-context/
| tex/context/base/mkiv/context.mxl
mtx-context | current version: 2020.04.30 11:15
```

. , , . «ConTeXt Standalone», [ConTeXt wiki](#). [Appendix](#) .

PDF-, . Windows Mac OS Adobe Acrobat Reader. (, Microsoft Windows 15), , PDF, , , . Linux / Unix Acrobat Reader, , PDF. , . MuPDF; , , , , ; ; . , MuPDF, Okular qPdfView. , : , .

, PDF-, ConTeXt ... free libre software!

2.2

, , «rain.tex». :

```
%
\mainlanguage[en] % Language = English

\setuppapersize[S5] % paper size

\setupbodyfont
  [modern,12pt] % Font = Latin Modern, 12 point

\setuphead    % Format of chapters
  [chapter]
  [style=\bfc]

\starttext % Begin document contents

\startchapter
  [title=The rain in Spain...]

How kind of you to let me come.
Now once again, where does it rain?
On the plain, on the plain.
And where's that blasted plain?
In Spain, in Spain.
The rain in Spain stays mainly in the plain.
The rain in Spain stays mainly in the plain.

\stopchapter

\stoptext % End of document
```

```
, -, . , , «\», , . .
```

```
, , , , -- UTF-8. . , , . , , . GNU Emacs, , CTRL-X, Return, „f“,
( GNU Emacs -) , . « ».
```

```
, , .
```

```
, ConTEXt
```

```
«%». , ConTEXt , . , , , , , .
```

```
«\», ConTEXt, , , . , ConTEXt: , , , , . , , : «\», , , (
, , ) , , , . , , .
```

```
9- ( - ) \starttext: ConTEXt, ; \stoptext, , . , . , , «My Fair
Lady» «The Rain in Spain...». , , ConTEXt .
```

```
, , ConTEXt , , «rain.tex».
```

```
, , . ConTEXt . ( , ) ;-, , . , , «context» , .
```

```
ConTEXt, , «ConTEXt Standalone», , , ConTEXt . Linux / Unix :
```

```
$> source ~/context/tex/setuptex
, ConTEXt «context».
    script, , Appendix «ConTEXt Standalone».
, , «context», , . ,
$> context rain
. , «rain.tex», «context» . , «rain.mkiv» ( , , Mark IV), , «context
rain.mkiv».
«context» , , ConTEXt. , , , «.log». , .
, , , . , . , ConTEXt , , , . , . , «context», :
• rain.pdf
• rain.log
• rain.tuc
- , , , PDF-. -- «.log», , ; -- , CONTEXT . , , , (rain.log rain.tuc). -,
, , .
, , :
• ConTEXt, ««context»» «command unknown».
• UTF-8, .
• , , ConTEXt, , Mark II. UTF-8 . , , , Mark IV, Mark II: «ConTEXt
Standalone».
• .
«context» , , CTRL-X, ConTEXt, -.
, , , .
figure 2.1 «rain.pdf». , ConTEXt . , ConTEXt , (\mainlanguage[en]).
: ConTEXt , , . , , , .
```

2.3

```
, , \starttext ... \stoptext. , \starttext, . \starttext \stoptext. :
(\mainlanguage), (\setuppapersize), «S5», (\setuphead), , .
\starttext \stoptext. : , ConTEXt, , . , \starttext \stoptext
ConTEXt, , (section 4.6), , .
```

2.4 , «context»

```
«context», , Lua Lua script, Lua, LuaTEX, .
«context» . . , . «help» :
$>context --help
:
interface: , ConTEXt . , (nl), (fr), (it), (de) (ro).
```


1

1 The Rain in Spain...

How kind of you to let me come. Now once again, where does it rain? On the plain, on the plain. And where's that blasted plain? In Spain, in Spain. The rain in Spain stays mainly in the plain. The rain in Spain stays mainly in the plain.

2.1 The rain in Spain...

```
purge, purgeall: , .
result=Name: , PDF. , , .PDF.
usemodule=list: ConTEXt ( -- ConTEXt, ).
useenvironment=list: ConTEXt ( -- ).
version: ConTEXt.
help: .
noconsole: . - .log.
nonstopmode: . , , ConTEXt , , , .
batchmode: .
ConTEXt , , , , , .
```

2.5

```
ConTEXt . :
```

1. . , . , \TeX \Tex „x”, ConT_EXt , , «TeX» «Tex» ; , ..
2. . ConT_EXt , , , ; \$, , , , , , „{” \startSomething, „}”
\stopsomething .
3. . , , , , , , .
4. . , . : ConT_EXt , .
 , «context» , ? , , «.log», ; , , , «context».

3.1 ConT_{EX}t

`\ % { } # ~ | $ _ ^ &`



19

,	
\	\backslash
%	\%
{	\{
}	\}
#	\#
~	\texttilde
\$	\\$
_	_
^	\textcircled
&	\&

3.1

```
-- \type. , , - , , . , \type, , .
, \type. , , , , , \type. : \type*{ * \type+ }+.
```

1. .
2. . «~» «%»; «~», , ; , «%». «|» , , ConT_EXt. , «|», .
3. : , (^ &): , .

3 - . , ConT_EXt, , ; , ; , IAT_EX.

3.2

«|». , escape-, :

. . escape- („\”) , , „\”, «\1», «\’» «\%». , , , , . , (, , _ , «_» (,) , .

-- „”, , , . Knuth , „The T_EXBook” «_». , , , , „word1_word2”.

. , , , , . , ; , . , , ConT_EXt , , \mycommand \MyCommand . \MyCommand1 \MyCommand2 , „1” „2” , .

ConT_EXt , «manuals», «ConT_EXt Standalone». , , T_EX (, , , , , «»).

ConT_EXt escape- («|»), , . , escape-. , , . , escape- -- , ConT_EXt , , , , , , .

«non-letter» , , , , , ConT_EXt . , ConT_EXt, - , . ,

\TeX \ConTeXt.
\TeX, , \ConTeXt

:

T_EX ConT_EXt.
T_EX, , ConT_EXt.¹

¹ : , , - , , : ; - , ConT_EXt - .

, «T_EX» , . , «non-letter» \TeX , , ConT_EXt , , , .

, , ,

\TeX_{} \ConTeXt¹.

, ConT_EXt (section 4.2.1) , , . , (, ,), , «» . :

- «{}» . «{», , , «}» , «{}» . , ConT_EXt , . , «{\TeX}» . , „non-letter” \TeX .
- «_» (, , . page 20). . ConT_EXt , , , , ConT_EXt (, \TeX), (, «_»):
 - ConT_EXt \ „T”, , , , «», , \ .
 - , \TeX, T_EX . , , .
 - , , «», , , .
 - , , (,), .

, . , , , , , , - .

, , (T_EX) «» . , :

\def\txt-{\TeX}

\txt, , \TeX, , \txt- . , , . , T_EX, . : , , \txt-, ConT_EXt \TeX, , , , , .

«» \define, ConT_EXt .

3.3

3.3.1 ,

ConT_EXt, , (, , ..), , , , , , , , \bf , , , , \tf \it.

, . (, , ..).

(. section 3.8.1), , , . , , , , .

In {\it The \TeX Book}, {\sc Knuth} explained everything you need to know about \TeX.

In The T_EXBook, Knuth explained everything you need to know about T_EX.

: \it (), - \sc ().

, , - , . , , . \framed: , , ,

\framed{Tweedledum and Tweedledee}

Tweedledum and Tweedledee

, () , . , , , , , , , , , .

\framed, --, . , , , , , \it \color, : () . , .

¹ «_», page 20.

3.3.2 , , ()

, , , , . , : , -- . «start», , , «stop», , . . . , «itemize» \startitemize, \stopitemize, , .

ConT_EXt . «...». , L^AT_EX , , , ConT_EXt «» - (, , [section 4.6](#)). , «» , , , .

, , , , . ¹ , , , . «.log» , ; , ConT_EXt , , , «.log» . , , , , , , , : , , , , , , , .

```
\startSomething
...
\startSomethingElse
...
\startAnotherSomethingElse
...
\stopAnotherSomethingElse
\stopSomethingElse
\stopSomething
```

, «AnotherSomethingElse» «SomethingElse» . . .

, , , , . , «» , , ; «framedtext», . , , - : , \framed, , , - (), «framedtext».

, , , ([section 3.8.1](#)), , , , , , ; ConT_EXt , \start (; start.) \stop. , -- .



ConT_EXt , , , , . , , , , : , \definestartstop ([section 3.7.2](#)), , , ([section 3.8.1](#)).

, , unnamed (\start), : , - , . . .

3.4

3.4.1 , -

. , , , , .

, , \framed, . , . , ; . , , \framed :

\framed{Tweedledum}

Tweedledum

:

\framed
[width=3cm, height=1cm]
{Tweedledum}

Tweedledum

¹ ; . ConT_EXt L^AT_EX, .

, , . ; () , , :

```
\framed[width=3cm,height=1cm]{Tweedledum}

\framed[width=3cm, height=1cm]{Tweedledum}

\framed
[width=3cm, height=1cm]
{Tweedledum}

\framed
[width=3cm,
 height=1cm]
{Tweedledum}
```

, : , . , , , ; , , , , ConT_EXt , , , () «» .
 , . (section 3.5).

3.4.2 , , (\setupSomething)

, , , , . , , , , , , , \\\setup, , .
 \\\framed, , . , , , \\\framed, \\\setupframed.
 \setupframed
 [
 width=3cm,
 height=1cm
]
 , , \\\framed, 3 1, .
 ConT_EXt 300, . , \(\framed), («itemize»), \(\chapter) \(\section) ..

3.4.3 (\defineSomething)

\framed, , , , , \framed , . ConT_EXt \defineframed, :
 \defineframed[Name][Configuration]
 Name -- , ; Configuration -- , .
 , , , , , , \(\framed).
 \framed, , \setup. \defineSomething + \setupSomething -- , ConT_EXt . ,
 \defineSomething, , :
 • , , .
 • .
 • , , , .
 , , , , , , , «MySpecialFrame», \setupframed, , . \setup :
 \defineframed[MySpecialFrame]
 \setupframed
 [MySpecialFrame]
 [...]

3.5 ,

, , , ConT_EXt

- «|».
 - .
 - , , - , .
 - , , , .
 - , , , \buildtextcedilla (- „ç”,), : , .
 - , . , .
 - , , . :
 - , .
 - , :
 - , (ConT_EXt), , ..
 - , . (. section 3.6) , .
 - * , , , , .
 - * , , , , , , - .
 - , , . () .
 - , ConT_EXt , , , , . , ,
- \command[Option1, Option2, ...]

\command[Variable1=value, Variable2=value, ...]

:

\command[Option1, Variable1=value, ...]

3.6

ConT_EXt

ConT_EXt , , , «setup-en.pdf» ConT_EXt. «tex/texmf-context/doc/context/documents/general/qrcs».

, «qrc» , , ConT_EXt: , , , , : «setup-LangCode» (LangCode -)
«setup-mapping-LangCode». , .

ConT_EXt, , ; , command (or environment) + setupcommand + definecommand.
, , \blank , , \setupblank, , , , (\defineblank).

«setup-en.pdf», , ConT_EXt. , , , Mark II Mark IV, , , , , .
ConT_EXt. , , , , , , .

3.7

3.7.1

[illegible]

```
Maryborough, \date\par
#1\ #2,\par
}
```

```
''
```

```
\LetterHeading{Dear Ms}{Eloise Merriweather}
```

```
( ). , (/; 0/1; /), . , , , , , .
```

3.7.2

ConTeXt `\definestartstop`, :

`\definestartstop[Name][Options]`

`\definestartstop` (. section 3.6) , , , , . «» ConTeXt, . , () ,
 , , . ConTeXt .

- Name , .
- Configuration . , :
 - before -- , .
 - after -- , .
 - style -- , .
 - setups -- , `\startsetups ... \stopsetups` .
 - color, inbetween, left, right -- , . , , - , , - , .

```
\definestartstop
[TextWithBar]
[before=\startmarginrule\noindeentation,
after=\stopmarginrule,
style=\ss\sl
]
```

```
\starttext
```

The first two fundamental laws of human stupidity state unambiguously that:

```
\startTextWithBar
```

```
\startitemize[n,broad]
```

```
\item Always and inevitably we underestimate the number of stupid
individuals in the world.
```

```
\item The probability that a given person is stupid is independent
of any other characteristic of the same person.
```

```
\stopitemize
```

`\stopTextWithBar`

`\stoptext`

:

The first two fundamental laws of human stupidity state unambiguously that:

1. Always and inevitably we underestimate the number of stupid individuals in the world.
2. The probability that a given person is stupid is independent of any other characteristic of the same person.

, (section 3.8.1), ConT_EXt, , , \bgroup «before», \egroup «after».

3.8

, , ConT_EXt. - ; , : .

3.8.1

-- , ConT_EXt (,). , . :

- «{» or \bgroup.
- \begingroup
- \start
- (\startSomething).
- («\$»)

- «}» or \egroup.
- \endgroup
- \stop
- (\stopSomething).
- («\$»).

, , \hbox, \vbox , , , ¹. (,), . , , «{», «}», , \begingroup, \endgroup.
: , «{», \egroup, , \bgroup, «}»; , «{» \bgroup , «}» \egroup.

\bgroup \egroup , , , T_EX, , , .

\begingroup \endgroup, , \bgroup ... \egroup, , \begingroup \endgroup.

. , .

(), , , , : , . , «{}». , , , , .

: , , , «», . , , ConT_EXt , . , , . , \it, \bf, \sc .. : - ,
, ConT_EXt , , , . , , .

,

¹ box ConT_EXt, .

ConT_EXt, , (ConT_EXt):

1. , ; Chapter 4 .

2. (Chapter 6).

3. , , .. Chapter 7.

4. , , , section 12.3.

5.

, , , .. , , . ; , , , ConT_EXt , :

- , .

- -, , , ;, \setup .

- , , , .

, , (. section 3.6), , . , , , . , , , . ConT_EXt. ,
«ConT_EXt Standalone» ., «grep» (GNU Linux), , , , - , .

ConT_EXt: () , , : : --, --, . ConT_EXt , .

: 4.1 ; 4.2 , ConT_EXt ; 4.2.1 () ; 4.2.2 ; 4.2.3 Rules/dashes; 4.3 ;
 4.4 ; 4.5 T_EX; 4.5.1 \input; 4.5.2 \ReadFile \readfile; 4.6 ConT_EXt ;
 4.6.1 ; 4.6.2 ; 4.6.3 ; 4.6.4 , , ;

, ConT_EXt , , , , ConT_EXt , PDF .

, , , , , , , , . « ».

4.1

. , , , .

, , .table . . - , .

-- . , , ASCII („ ”), 128 1963 . , 128 , ; , ,
 (). ASCII , , 127 () 7- , , 8- . . 8 , ASCII 7 , .

, ASCII , , , , „ñ” , „ç” . . , ASCII, . , , ,
 (Microsoft, Apple, IBM ..).

, , , , , , (Unicode) (UTF-8, UTF-16, UTF-32 ..) -
 UTF-8, , , (1 4), , , . , ASCII.

X_HT_EX , T_EX -- , , -- , ASCII; , - .

ConT_EXt Mark IV , UTF-8. - . , Windows, , Microsoft (, , !). , , ().

, , . , ConT_EXt Mark IV, UTF-8, , , (,).

, (,),

. UTF-8, , ; Linux, , iconv recode.

. ConT_EXt , UTF-8. \enableregime, :

\enableregime[Encoding]

Encoding , ConT_EXt . table 4.1 , ConT_EXt

ConT_EXt Mk IV UTF-8. . , , UTF-8.



\enableregime ConT_EXt \useregime, . , , \enableregime, . ,
 \useregime , , , .

4.2 , ConT_EXt

-- , , . section 3.1, ConT_EXt . , , ConT_EXt, , . (), , .

4.2.1 ()

. (Tab) ConT_EXt . () , ,

Tweedledum and Tweedledee.

or

Encoding	Name(s) in ConT _E Xt	Notes
Windows CP 1250	cp1250, windows-1250	Western Europe
Windows CP 1251	cp1251, windows-1251	Cyrillic
Windows CP 1252	cp1252, win, windows-1252	Western Europe
Windows CP 1253	cp1253, windows-1253	Greek
Windows CP 1254	cp1254, windows-1254	Turkish
Windows CP 1257	cp1257, windows-1257	Baltic
ISO-8859-1, ISO Latin 1	iso-8859-1, latin1, il1	Western Europe
ISO-8859-2, ISO Latin 2	iso-8859-2, latin2, il2	Western Europe
ISO-8859-15, ISO Latin 9	iso-8859-15, latin9, il9	Western Europe
ISO-8859-7	iso-8859-7, grk	Greek
Mac Roman	mac	Western Europe
IBM PC DOS	ibm	Western Europe
UTF-8	utf	Unicode
VISCII	vis, viscii	Vietnamese
DOS CP 866	cp866, cp866nav	Cyrillic
KOI8	koi8-r, koi8-u, koi8-ru	Cyrillic
Mac Cyrillic	maccyr, macukr	Cyrillic
Others	cp855, cp866av, cp866mav, cp866tat, ctt, dbk, iso88595, isoir111, mik, mls, mnk, mos, ncc	Various

4.1 ConT_EXt

Tweedledum and Tweedledee.

ConT_EXt . . . , ConT_EXt, . «_», \, . , [chapter 10.3](#) .

, , , , , . .

The music group from Madrid at the end of the seventies {\em La Romántica

Banda Local} wrote songs of an eclectic style that were very difficult to categorise. In their son “El Egipcio”, for example, they said:

\quotation{{\em Esto es una farsa más que una comedia, página muy seria de la histeria musical; sueños de princesa, vicios de gitano pueden en su mano acariciar la verdad}}, mixing word, phrases simply because they have an internal rhythm (comedia-histeria-seria, gitano-mano).

, . . , . () , .

, ! ? (GNU Emacs), ConT_EXt. , , .

. . , («{}») , , , . . «Tweedledum {} Tweedledee», «Tweedledum Tweedledee», , , .

«~», , : , ~ , ~ .

4.2.2

, , . , «Enter» «Return»

ConT_EXt :

. . . , - , , .

. . . , , (); , , , (-), .

, « », « », , , , . . , \blank. . [section 11.2](#).

, , . . , «sneak in», . , «%», , , , , , , . . .

```
\define[3]\Test{
  {\em #1}
  {\bf #2}
  {\sc #3}
}

, , , ,

\define[3]\Test{%
  {\em #1}%
  {\bf #2}%
  {\sc #3}%
}

, % .
```

4.2.3 Rules/dashes

- . (,), («-»); :
- (), , (-).
 - (en dashes or en rules), (--). , () ; «pp. 12--33».
 - (em dashes or em rules) (---), .
 - (-) .
- UTF-8. , . , T_EX / , . ConT_EXt , , . : ConT_EXt , .

table 4.2:

Type of rule	Appearance	Written directly	Command
Hyphen	-	-	<code>\hyphen</code>
En rule	--	--	<code>\endash</code>
Em rule	---	---	<code>\emdash</code>
Minus sign	-	\$-\$	<code>\minus</code>

4.2 Rules/dashes in ConT_EXt

`texhyphen` `\minus` . „rules”, T_EX, `\endash` `\emdash`, . «en» «em» -- , . «en» „n”, «em» -- „m” .

4.3

- ConT_EXt , , , , « » , , , , « ».
- , , :
- , , , ; , ..
 - , () , . (, ..), .
 - , .
 - , , , , ; .
 - , , () , , , ..

4.4

- `\text` , , , . :
- `\starttext` (`\starttext`).
- `\stoptext` ; , , `\starttext` `\stoptext`.

```
% First line of the document

% Preamble area:
% Containing the global configuration
% commands for the document

\starttext % The body of the document begins here

...
... % Document contents
...

\stoptext % End of the document
```

4.1 file containing a simple project

figure 4.1 `\starttext` (5, ,), ; `\starttext \stoptext` . , `\stoptext`, .

- `\text` , , , . - . , `ConTeXt` , , . , , , . :
- (. section 10.5).
- (section 5.1) (section 5.3).
- (section 6.3).
- (section 7.4) , , (section 7.5).
- (section 5.6).
- (section 3.7).
- .

; , contents . , , , , .

, `\starttext \stoptext`, , , `ConTeXt`, .

4.5 \TeX

, \TeX `\input`, `ConTeXt`, , `\input`.

4.5.1 `\input`

`\input` . :

`\input FileName`

FileName -- . , , . . `«.tex»`, .

`ConTeXt \input`, , , , , ; , , , `\input`, , . , `\input`, .

`ConTeXt` , , , `TEXROOT`. , .

`\input` : , `«principal.tex»`, `\input` , . :

```
% General configuration commands:
```

```
\input MyConfiguration
```

```
\starttext
```

```
\input PageTitle
```

```
\input Preface
```

```
\input Chap1
```

```
\input Chap2
```

```
\input Chap3
```

```
...
```

```
\stoptext
```

```
, «MyConfiguration.tex», , , , . \starttext \stoptext , . - , , , ,
.. , , , , :
```

```
% General configuration commands:
```

```
\input MyConfiguration
```

```
\starttext
```

```
% \input PageTitle
```

```
% \input Preface
```

```
% \input Chap1
```

```
% \input Chap2
```

```
\input Chap3
```

```
...
```

```
\stoptext
```

3. , , , , .

, , , , , .. [section 9.2](#).

```
, \input, , , , \starttext \stoptext, , , , , , , , .
```

4.5.2 \ReadFile \readfile

```
, ConTEXt \input, . , , , , , ConTEXt \input.
```

```
\ReadFile{FileName}
```

```
\input , , , , , - \input , , \input , . \ReadFile . , ConTEXt , ,
\ReadFile, .tex, , ,
```

```
\ReadFile MyFile
```

```
ConTEXt , , , «M.tex», \ReadFile ( , , , ) -- „M”. ConTEXt «M.tex», \ReadFile
, , ConTEXt „M” «MyFile» «yFile».
```

```
texReadFile -- \readfile,
\readfile{FileName}{TextIfExists}{TextIfNotExists}
\ReadFile: , . , , . , , . , , . , ( ) ( ).
```

4.6 ConT_EXt

, ConT_EXt , : , , . , , :

4.6.1

```
-- , , , , . , , \starttext; : .
« » , ConTEXt, , , , « » « ».
ConTEXt, , «.tex», , , , «.env». ConTEXt. , „env”. : «MyMacros_env.tex»
«env_MyMacros.tex». :
```

```
\startenvironment MyEnvironment

\mainlanguage[en]

\setupbodyfont
[modern]

\setupwhitespace
[big]

...

\stopenvironment
```

```
, \startenvironment \stopenvironment. \startenvironment , , , , .
, , , \startenvironment, , , () .
( ). \environment. , () ConTEXt, , .
\environment :
\environment File
\environment[File]
```

```
, . , -. «.tex», .
```

4.6.2

```
, , , -- , -- . , . , , , .
```

```
\environment MyEnvironment
\environment MyMacros

\startcomponent Chapter1

  \startchapter[title={Chapter 1}]
  ...

\stopcomponent
```

•

```
\environment MyEnvironment
\environment MyMacros

\startproduct MyBook

  \component Chapter1
  \component Chapter2
  \component Chapter3

  ...

\stopproduct
```

, «», . , () . PDF-, . , , pdf, .
 \startcomponent \environment EnvironmentName. \startproduct. . ,
 , , . , , , , . , . , , , , , ; , ConTeXt, , .
 , , , , , -- «.tex», .

4.6.3

. ConTExt , : .

```
\startproject MyCollection

\environment MyEnvironment
\environment MyMacros

\product Book01
\product Book02
\product Book03

...

\stopproject
```

, , , , ; : ; ; .

```

, . , ( ), PDF- \product, , : .
, , , : , . , \project ProjectName , ConTeXt . \environment
\startproject; \environment \startproduct \startcomponent.

\environment \component, \project , . , \project FileName \Project[FileName]
.

```

```

,      :
.      \environment EnvironmentName \starttext \startcomponent.
.      \environment EnvironmentName \startproduct.
.      \project : , ( ).

```

4.6.4 ,

```
, , : , \start, , , . , , , , , , ConTEXt , , , , , .
    , , , texstartproduct \startenvironment , . , . , , .
: , , ConTEXt , , TEXROOT., \project, \product, \component \environment,, ,
    , - , , , , , , .
```

II

```

: 5.1 ; 5.1.1 ; 5.1.2 ; 5.1.3 ; 5.1.4 ; 5.2 ; 5.3 (\setuplayout);
5.3.1 ; 5.3.2 ; 5.3.3 ; 5.3.4 , ; ; 5.4 ; 5.5 ; 5.5.1
\page; 5.5.2 ; 5.6 ; 5.6.1 ; 5.6.2 ; 5.6.3 ; 5.7 ;
ConTeXt . , -- . , , .

```

5.1

5.1.1

```

ConTeXt, A4, . \setpapersize, . :
\setpapersize[LogicalPage][PhysicalPage]
. 1, LogicalPage, , ; PhysicalPage , . , ; , , 8 16 ( , 1960-).
ConTeXt ; , , , \setuparranging ( ).
, ( ). :

```

- A, B C, ISO-216 (A0 A10, B0 B10 C0 C10), .
- US: , , , , .
- RA RSA, ISO-217.
- G5 E5 SIS-014711 ().
- : , (9 14) ISO-269 (C6/C5, DL, E4).
- CD, CD.
- S3 – S6, S8, SM, SW , , .

`\setpapersize` : «» () «» ().



, `\setpapersize`, wiki ConTeXt:«rotated», «90», «180», «270», «mirrored»
«negative». «rotated», , . , «rotated», . , «mirrored»
«negative».

`\setpapersize`, , , , , . «oversized» , , ConTeXt wiki, .

wiki : «undersized», «doublesized» «doubleoversized». ; (. [section 3.6](#))

5.1.2

, :

1. `\setpapersize`, .
2. , , .

`\setpapersize`

, , `\setpapersize` :

¹ , [section 3.5](#) , , ConTeXt, : , ConTeXt, , -.

`\setuppapersize[Name][Options]`

Name -- , , `\definepapersize ()`, Options , . :

- width, height .
- , , - , . , «page» `\setuppapersize ()` «page» . , (A4, S3 ..).
- , .
- topspace (), backspace (), offset (), .

, `\definepapersize`, :

`\definepapersize[Name][Options]`

Name , , Options :

- `\setuppapersize (A4, A3, B5, CD ..)`.
- -- width (), -- height () -- offset () («scale»).
- , , `\setuppapersize`, . , , - ; ConT_EXt, , .
- `\definepapersize`, , , , , . , , , ,

`\definepapersize[vertical][A4, portrait]`

`\definepapersize[horizontal][A4, landscape]`

5.1.3

, `\setuppapersize --` , . - ; , .

`\setuppapersize` , , . , `\setuppapersize`.

, , `\setuppapersize` , , -- , `\adaptpapersize`, , , . , `\setuppapersize`, `\adappapersize` .

5.1.4

ConT_EXt , . `\startMPpage`, `\startpagefigure` `\startTEXpage`. , , Meta-Post, ,

ConT_EXt, . , , : , . , . (`\startTEXpage`) , . :

`\startTEXpage[Options] ... \stopTEXpage`

:



- strut . . ConT_EXt strut - , , , . , «yes», «no», «global» «local», -- «no».
- align . . «normal», «flushleft», «flushright», «middle», «high», «low» «lohi».
- offset , . «none», «overlay» (), , .
- width, height , «fit», , .
- frame , «off» «>», «on» «>», .

5.2

ConT_EXt , `\setuplayout`. , , , `\setuplayout` :

- **Edges:** , . «margins», ConTeXt, (), , , , .
 - : ((«top» «»)) («topdistance» « »). «topspace» « ».
 - «leftedge» «rightedge» -- « » « » . , , «edge».
 - , , , ; - , , , .
 - «bottom» ().
- **Margins ()** . ConTeXt (). , , , .
 - , :
 - margin: , .
 - leftmargin, rightmargin: .
 - edgedistance: .
 - leftedgedistance, rightedgedistance: .
 - margindistance: .
 - leftmargindistance, rightmargindistance: .
 - backspace: , , «leftedge» + «leftedgedistance» + «leftmargin» + «leftmargindistance».
- **Header and footer:** - , , , . , , , , , .. ConTeXt :
 - header: .
 - footer: .
 - headerdistance: .
 - footerdistance: .
 - topdistance, bottomdistance: . .
- **Main text area ():** , . «width» () «textheight» (). , «height» «header», «headerdistance», «textheight», «footerdistance» «footer».

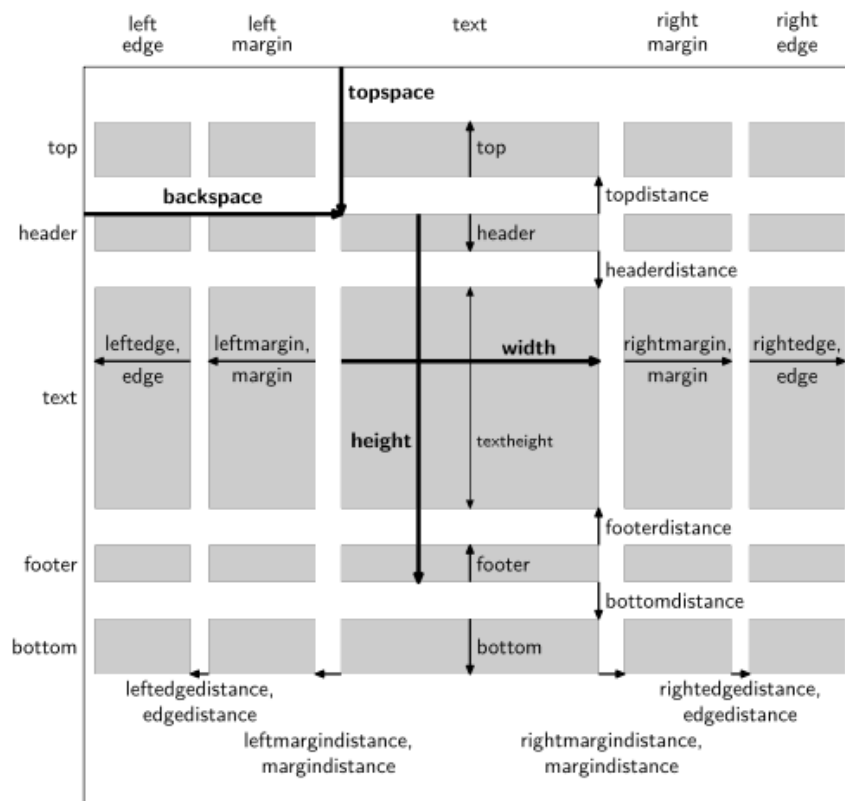
image 5.1 , . , , , 9 9 , , , .

`\showsetups.` , , `\showframe; \showlayout` .

5.3 (\setuplayout)

5.3.1

- `\setuplayout.` , . :
- `\setuplayout[Name] [Options]`
- Name** -- , , (. [section 5.3.3](#)), , , , . , , , , , . ; .
- ConTeXt** , , , . , , , «textheight»; () («width»). (
- `\setuppapersize` :
- :



5.1

- «backspace» («leftedge» «leftmargin»).
- «width» (text width) , «fit» «middle»:
 - * fit .
 - * middle , .
- :
 - « » «topspace».
 - «fit» «middle» «» «height». , . , , .
 - «height», , , «textheight» .
- , (). **\setuplayout** «lines».
- ([section 5.1.1](#)) **\setuplayout** , :
- location (): , . : left (), middle (), right (), top (), bottom (), singlesided (), doublesided duplex ().
- scale: .
- marking: , , .
- horoffset, veroffset, clipoffset, cropoffset, trimoffset, bleedoffset, artoffset: , . 2013 .

`\setuplayout \setuparranging, , . , .`

`\textwidth \textheight . , , , , , 60% , «width» :
«width=0.6\textwidth».`

5.3.2

`, , , , , , . , ConTeXt \adaplayout, . , . - . :`

`\adaplayout[Pages] [Options]`

`Pages , . , , \adaplayout. , , . , \adaplayout , .`

`, :`

- `height:` , . («19 ») («+1 », «-0,7 »).

- `lines:` . +, -- - ().

`, , \adaplayout , , . , , , ; , , , .`

5.3.3

`, , , , . , . , , \definlayout, :`

`\definlayout[Name/Number] [Configuration]`

`Name/Number - , , , , Configuration , .`

`, , , :`

`\setuplayout[LayoutName]`

`:`

`\setuplayout[reset]`

`, , , . , , , , . , 1 2, :`

`\definlayout[1][...]`

`\definlayout[3][reset]`

`, , , 1, 3 , .`

`\definlayout[even] , ; \definlayout[odd] .`

5.3.4 ,

.

`, , . 0, -- 0. , , . , , - . , .`

`\setuplayout , , . , ConTeXt : \setuppagenumbering, section 5.4. ,
ConTeXt , , \setuplayout, , , : , , , ; , , .`

.

`\setuplayout , , , . «columns», . , «columndistance».`

`, () . , , , , «columns» (. section 12.2).`

5.4

ConT_EXt , . , ConT_EXt , , , , .

-, :

`\setuppagenumbering \setupuserpagenumber.`

`\setuppagenumbering :`

- **alternative:** , , («singlesided» «»), («doublesided» «»). , , , «setuplayout», , , «setuplayout» , , , (), , , , .
- **state:** , . : () (). (start stop) , «state=stop», , «state=start» . : , .
- **location ():** , . , , , , («header») («footer»), , : «left», «middle», «right», «inleft», «inright», «margin», «inmargin», «atmargin» «marginedge». : , «location={footer,right}». , , , ConT_EXt .
- **style:** , .
- **color:** , .
- **left:** .
- **right:** .
- **command:** , .
- **width:** , .
- **strut:** . , «strut=no», , «strut=yes» () -- .

`\setupuserpagenumber, :`

- **numberconversion -- :** , («n», «numbers»), («a», «characters»), - («A», «Characters»), («KA»), («i», «r», «romannumerals»), («I», «R», «Romannumerals») («KR»).
- **number:** , , .
- **numberorder:** «reverse», ; , 1, - 2 ..
- **way:** , . : , , , ..
- **prefix:** .
- **numberconversionset:** .

, [section 7.6](#)). `\defineconversionset` . :

```
\defineconversionset
[frontpart:pagenumber][][romannumerals]
```

```
\defineconversionset
[bodypart:pagenumber][][numbers]
```

```
\defineconversionset
[appendixpart:pagenumber][][Characters]
```

, (frontmatter) , (bodymatter) -- , -- .

, :

- `\userpagenumber:` , `\setuppagenumbering \setupuserpagenumber.`
 - `\pagenumber:` , , .
 - `\realpagenumber:` .
- , .: `\lastuserpagenumber, \lastpagenumber \lastrealpagenumber.`

5.5

5.5.1 `\page`

`ConTEXt` , , . `\page` :

- .
 - `no:` , , , , , .
 - `preference:` `ConTEXt`, , , , .
 - `bigpreference:` , , , , .
- , , `ConTEXt`, , . , , - `ConTEXt`.
- ; , , , .
 - `yes:` .
 - `makeup:` «yes», , - , (. [section 13.1](#)).
 - `empty:` .
 - `even:` , , .
 - `odd:` , , .
 - `left, right:` , , , , .
 - `quadruple:` , , 4.
- , , `\page` , . , «disable» «», `ConTEXt \page`, , «reset», , `\page`.

5.5.2

, , `\page` , , . -- , , , `TEX` .

([page 11](#)) , `TEX`. `TEX` ; , . .

`TEX`, , , . , , , , . `\vbox`,

`\vbox{Material}`

`Material` - , .

`ConTEXt` . , «framedtext», , , , , (`frame=off`), .

5.6

5.6.1

, `\setupheadertexts \setupfootertexts.` , , , - . .

1. , , .: `\setupfootertexts[pagenumber]` .
2. , - ., `\setupheadertexts[Preface][pagenumber]` , «» , .
3. , , . , [section 5.2](#), : , , ... , , , .

```

, , , , «alternate=doublesided» \setuppagenumbering. , .
, , ( ) , , ( ) , ( , ) , ,

```

```

\setupheadertexts[and]
\setupheadertexts[Tweedledum][Tweedledee]

```

```

«and» , «Tweedledum» «Tweedledee» , , .

```

```

Tweedledum and Tweedledee

```



```

. , ConTEXt excursion, ; , 2013 ., . , . , , , , , - .
, . ? . , .

```

```

, . :

```

- date, currentdate: () .
- pagenumber: .
- part, chapter, section...: , , ,
- partnumber, chapternumber, sectionnumber...: , ,
- (, , , ..) , ; , , , , \setupheadertexts[chapternumber], ;
texsetupheadertexts[Chapter chapternumber], : «Chapter chapternumber». , , :
- date, currentdate pagenumber , (\date, \currentdate \pagenumber).
- part, partnumber, chapter, chapternumber .. \getmarking[Mark], Mark. , ,
\getmarking[chapter] , \getmarking[chapternumber] .
- , \noheaderandfooterlines, , . , \page[blank].

5.6.2

```

, , \setupheadertexts \setupfootertexts . \setupheader \setupfooter, :

```

- state: : start, stop, empty, high, none, normal nomarking.
- style, leftstyle, rightstyle: . style : leftstyle -- rightstyle -- .
- color, leftcolor, rightcolor: . (color) (leftcolor) (rightcolor)
- width, leftwidth, rightwidth: (leftwidth) / (leftwidth) (rightwidth).
- before: , .
- after: , .
- strut: «yes», . «no», .

5.6.3

```

ConTEXt , ; , . , ( , ) . :

```

1. .
2. , .

```

\definertext, :

```

```

\definetext
[Name] [Type]
[Content1] [Content2] [Content3]
[Content4] [Content5]

Name -- , , ; Type header footer , , , , , , \setupheadertexts
\setupfootertexts. , \setuphead, ( Chapter 7).

, , :

\definetext[ChapterFirstPage] [footer] [pagenumber]
\setuphead
[chapter]
[header=high, footer=ChapterFirstPage]

```

5.7

```

, - . ConTEXt . , :

• \setuptoptexts: ( ).

• \setupbottomtexts: ( ).

• \margintext, \atleftmargin, \atrightmargin, \ininner, \ininneredge, \ininnermargin,
\inleft, \inleftedge, \inleftmargin, \inmargin, \inother, \inouter, \inouteredge,
\inoutermargin, \inright, \inrightedge, \inrightmargin: .

, \setupheadertexts \setupfootertexts, \setuptop \setupbottom, , \setupheader
\setupheadertexts. , section 5.6. , , , \setuptoptexts \setupbottomtexts, ,
(top) (bottom) . . section 5.3.1.

, , :

\CommandName[Reference][Configuration]{Text}

Reference Configuration -- ; , . , , , .

\margintext, . , , ( , ) ( , ). , , , \inrightedge, , .

\margintext :

• location: , . left, right , , outer or inner. left , -- outer.

• width: , . .

• margin: , margin edge.

• align: . , \setupalign 11.6.1.

• line: . , line=1 , line=-1 .

• style: , .

• color: .

• command: , , . . , , «[command=\framed]{Text}».

, location margin . , \atrightmargin \atleftmargin . distance, , \margintext,
.

```



```

        (strut, anchor, method, category, scope, option, hoffset, voffset, dy,
bottomspace, threshold stack), , , , . , distance, ? stack, ,
\marginpars LATEX, .

\setupmargindata . , ,
\setupmargindata[right][style=slanted]

, .

\definemargindata[Name][Configuration]
```


: 6.1 , «ConT_EXt Standalone»; 6.2 ; 6.2.1 , ; 6.2.2 ; 6.3 ; 6.4 ;
6.4.1 \setupbodyfont and \switchtobodyfont; 6.4.2 , ; 6.4.3 , ; 6.5 ,
; 6.5.1 Italic, slanted and emphasis; 6.5.2 ; 6.6 ; 6.6.1 ; 6.6.2 ;
6.6.3 ; 6.6.4 ; 6.6.5 ; 6.6.6 ;

6.1 , «ConT_EXt Standalone»

ConT_EXt , . , , 21 , ConT_EXt Standalone, (table 6.1).

ConT _E Xt		
Latin Modern	modern, modern-base	Emily Brontë's book
Antykwa Poltawskiego	antypolawskiego	Emily Brontë's book
Antykwa Toruńska	antykwa	Emily Brontë's book
Cambria	cambria	Emily Brontë's book
DejaVu	dejavu	Emily Brontë's book
DejaVu Condensed	dejavu-condensed	Emily Brontë's book
Gentium	gentium	Emily Brontë's book
Iwona	iwona	Emily Brontë's book
Latin Modern Variable	modernvariable, modern-variable	Emily Brontë's book
PostScript	postscript	Emily Brontë's book
TeX Gyre Adventor	adventor, avantgarde	Emily Brontë's book
TeX Gyre Bonum	bonum, bookman	Emily Brontë's book
TeX Gyre Cursor	cursor, courier	Emily Brontë's book
TeX Gyre Heros	heros, helvetica	Emily Brontë's book
TeX Gyre Schola	schola, schoolbook	Emily Brontë's book
TeX Gyre Chorus	chorus, chancery	Emily Brontë's book
TeX Gyre Pagella	pagella, palatino	Emily Brontë's book
TeX Gyre Termes	termes, times	Emily Brontë's book
Euler	eulernova	Emily Brontë's book
Stix2	stix	Emily Brontë's book
Xits	xits	Emily Brontë's book

6.1 , ConT_EXt

table 6.1 , ConT_EXt . , . , , -- , ConT_EXt , , . , Euler ,
Bront's, Brontë's.

Windows , heros Arial Windows, termes -- , Times New Roman. , , , , .

, Windows, free software (Windows), ConT_EXt. , ConT_EXt Windows,
, , ConT_EXt. , , . ConT_EXtConT_EXt wiki.

6.2

6.2.1 ,

, , , , , , , . , ; , ConT_EXt. , () . , ConT_EXt (), -- , .
alternatives.

Donald E. Knuth Computer Modern T_EX, : roman, sans serif teletype. -- , ,
serifs (), serif. . , , , , , - paloseco; , , , , , Computer
Modern, , , , , .

, . T_EX , , , , style .

ConT_EXt : . , , , , ConT_EXt, , , , . , ConT_EXt , , , : .

, ConT_EXt (alternative):

- Regular or normal («tf», from typeface).
- Bold («bf», from boldface).
- Italic («it» from italic)
- BoldItalic («bi» from bold italic)
- Slanted («sl» from slanted)
- BoldSlanted («bs» from bold slanted)
- Small caps («sc» from small caps)
- Medieval («os» from old style)

, , : , . ConT_EXt , ; , , , ; , , . , , , , («bi»).

, , , ConT_EXt , , , , .

, .

, , . . -- , -- , , , ; . , , , , , - , - :

italics -- italics -- italics

, , , , , „a”, .

, , . , , , , , , .

, - , :

1. , .

2. , .

ConT_EXt emphasising . .. [section 6.5.1](#).

6.2.2

, ConT_EXt, , , , , . , , 12 .

, ConT_EXt, , , Opentype Type 1, , , , . , T_EX , Computer Modern, , ,
Latin Modern, ConT_EXt, Computer Modern - T_EX, Knuth
MetaFont, , T_EX.

6.3

, - , ConT_EXt Latin Modern Roman 12 . Knuth T_EX. «» «flourishes» --
serifs - , , ; -- -- , , serifs , , , .

, `\setupbodyfont`, , . , . , , .

`\setupbodyfont`:

`\setupbodyfont[Options]`

:

- , , [table 6.1](#).
- , (), . , , , ConT_EXt, , `\setupbodyfont` ConT_EXt , 4 12, 14.4 17.3. , 12 .

`\setupbodyfont`, , ; , , . `\setupbodyfont`, , , .

(10pt, 11pt, 12pt ..), , . : big, small, script, x, scriptscript xx. , , `\setupbodyfont`, 12 , «big».

- , , , () (san serif), , - . `\setupbodyfont` . [6.2](#):

Roman	rm, roman, serif, regular
Sans Serif	ss, sans, support, sansserif
Monospaced	tt, modo, type, teletype
Handwritten	hw, handwritten
Calligraphic	cg, calligraphic

6.2 `setupbodyfont`

, , .

,

, , . , - , ; ConT_EXt , , ConT_EXt. `\showbodyfont`, .

`\showbodyfont` :

`\showbodyfont[Options]`

, `\setupbodyfont`. , , `\showbodyfont[schola,8pt]` , schola 8 :

[schola] [schola,8pt]													\mr : Ag
	\tf	\sc	\sl	\it	\bf	\bs	\bi	\tfx	\tfxx	\tfa	\tfb	\tfc	\tfd
\rm	Ag	Ag	Ag	Ag	Ag	Ag	Ag	Ag	Ag	Ag	Ag	Ag	Ag
\ss	Ag	Ag	Ag	Ag	Ag	Ag	Ag	Ag	Ag	Ag	Ag	Ag	Ag
\tt	Ag	Ag	Ag	Ag	Ag	Ag	Ag	Ag	Ag	Ag	Ag	Ag	Ag

, .. , , `\showbodyfont`.

, `\showfont[FontName]`. .

6.4

6.4.1 `\setupbodyfont` and `\switchtobodyfont`

, , , , ConT_EXt : `\setupbodyfont`. , , , . , , , .

```
\setupbodyfont, \switchtobodyfont.      ( , ), - . (\setupbodyfont)  ( ) ;
( ) ., \switchtobodyfont      , .

--      --      .:

1. , \setupbodyfont , \switchtobodyfont , , , .
2. \switchtobodyfont , , , \setupbodyfont, , , , .

, , , , , , , , .

\setupbodyfont , ; , , (Latin Modern Roman). \switchtobodyfont , ,
, . , , , .
```

6.4.2 ,

`\switchtobodyfont`, ConT_EXt , , . , ConT_EXt , , , , , `\dontleavehmode` command.

Style	,
Roman	<code>\rm, \roman, \serif, \regular</code>
Sans Serif	<code>\ss, \sans, \support, \sansserif</code>
Monospaced	<code>\tt, \mono, \teletype,</code>
Handwritten	<code>\hw, \handwritten,</code>
Calligraphic	<code>\cf, \calligraphic</code>

6.3

Table 6.3 , - ; table 6.4 , .

Alternative	,
Normal	<code>\tf, \normal</code>
Italic	<code>\it, \italic</code>
Bold	<code>\bf, \bold</code>
Bold-italic	<code>\bi, \bolditalic, \italicbold</code>
Slanted	<code>\sl, \slanted</code>
Bold-slanted	<code>\bs, \boldslanted, \slantedbold</code>
Small caps	<code>\sc, \smallcaps</code>
Medieval	<code>\os, \mediaeval</code>

6.4

, , , , , , , thought, , , , .

I thought a `{\it thought}` but
the `{\it thought}` I thought wasn't
the `{\it thought}` I thought I thought.
If the `{\it thought}` I thought I thought
had been the `{\it thought}` I thought
I wouldn't have thought so much!

I thought a thought, but the thought I thought,
wasn't the thought I thought I thought. If
the thought I thought I thought had been
the thought I thought I wouldn't have thought
so much!

, (`\tf, \it, \bf ..`), , . a, b, c d , 1.2, 1.2² (= 1.44), 1.2³ (= 1.728) 1.2⁴ (= 2.42) . . . :
`\tf test, \tfa test, \tfb test, \tfc test, \tfd test`

test, test, test, test, test

x xx , 0,8 0,6 :

\tf test, \tfx test, \tfxx test

test, test, test

„x” „xx”, \tfx, , \tfx \tx \tfxx \txx.

. ConT_EXt 2013 (Mark II) , , -- „x”, ; .

, , \showbodyfont, (section). , , , , .

\showbodyfont:

[modern]													\mr : Ag
	\tf	\sc	\sl	\it	\bf	\bs	\bi	\tfx	\tfxx	\tfa	\tfb	\tfc	\tfd
\rm	Ag	Ag	Ag	Ag	Ag	Ag	Ag	Ag	Ag	Ag	Ag	Ag	Ag
\ss	Ag	Ag	Ag	Ag	Ag	Ag	Ag	Ag	Ag	Ag	Ag	Ag	Ag
\tt	Ag	Ag	Ag	Ag	Ag	Ag	Ag	Ag	Ag	Ag	Ag	Ag	Ag

, , (\rm, \ss \tt). (\tf, \sc, \sl, \it, \bf, \bs \bi), , .

, , , , , , .

, \definebodyfontenvironment, :

\definebodyfontenvironment[particular size][scaled]

\definebodyfontenvironment[default][scaled]

, \setupbodyfont \switchtobodyfont. :

\definebodyfontenvironment[10pt][a=12pt,b=14pt,c=2,d=3]

, 10, „a” 12, „b” 14, „c” 2, „d” 3. , a ba , c da .

\definebodyfontenvironment «default», , , , , :

\definebodyfontenvironment[default][a=1.3,b=1.6,c=2.5,d=4]

, , a 1,3, b 1,6, c 2 d 4.

xx, x, a, b, c d, \definebodyfontenvironment «big», «small», «script» «scriptscript».

, \setupbodyfont and \switchtobodyfont. , () :

- \smallbold
- \smallslanted
- \smallboldslanted
- \smallslantedbold
- \smallbolditalic
- \smallitalicbold
- \smallbodyfont
- \bigbodyfont

, \showbodyfontenvironment[Font]. , , , , :

If we want to see the default sizes of a particular font, we can use `\showbodyfontenvironment[Font]`. This command, applied to the modern font, for example, gives the following result:

[modern]							
text	script	scriptscript	x	xx	small	big	interlinespace
10pt	7pt	5pt	8pt	6pt	8pt	12pt	
11pt	8pt	6pt	9pt	7pt	9pt	12pt	
12pt	9pt	7pt	10pt	8pt	10pt	14.4pt	
14.4pt	11pt	9pt	12pt	10pt	12pt	17.3pt	
17.3pt	12pt	10pt	14.4pt	12pt	14.4pt	20.7pt	
20.7pt	14.4pt	12pt	17.3pt	14.4pt	17.3pt	20.7pt	
4pt	4pt	4pt	4pt	4pt	4pt	6pt	
5pt	5pt	5pt	5pt	5pt	5pt	7pt	
6pt	5pt	5pt	5pt	5pt	5pt	8pt	
7pt	6pt	5pt	6pt	5pt	5pt	9pt	
8pt	6pt	5pt	6pt	5pt	6pt	10pt	
9pt	7pt	5pt	7pt	5pt	7pt	11pt	

6.4.3 ,

, . , ConT_EXt :

1. , .

2. , `\switchtobodyfont`.

:

- `\definebodyfontswitch:` . , `\eight (\viii command 1)`, 8 , :
- `\definebodyfontswitch[eight][8pt] \definebodyfontswitch[viii][8pt]`
- `\definefontstyle:` , `\setupbodyfont \switchtobodyfont ; , , sans serif - (, - «paloseco»)`,
`\definefontstyle[paloseco][ss]`
`\definefontstyle , , :`
`\definefontstyle[paloseco, sosa, sinrebordes][ss]`
- `\definealternativestyle:` . style , , ,
`\definealternativestyle[strong][\bf[]]`
`\strong «strong», style , . «bold», ConTEXt, , HTML, «strong».`
`, \definealternativestyle. ; , , ConTEXt, , , «, \cap, » (??)`

6.5 ,

, :

6.5.1 Italic, slanted and emphasis

, , . , .

¹ , , , ConT_EXt .

```
, , . ConTEXt , . \em . \it \sl, , \em -- ; -, , , ConTEXt \em \it \sl.
, ConTEXt, ; \em, , , ConTEXt, ., -, , ., \em , , - .
:
```

```
{\em One of the most beautiful
orchids in the world is the
{\em Thelymitra variegata}
or Southern Queen of Sheba.}
```

```
One of the most beautiful orchids in the world
is the Thelymitra variegata or Southern Queen
of Sheba.
```

```
, \em ( , .), \em «Thelymitra variegata» .
\em , , , , , , \em \bs. , \bs , , .
\em , , \setupbodyfontenvironment[default][em=italic].
```

6.5.2

```
-- , , ( ) . , , . -- . . .
, , , , font styles . , , , , .
, fake small caps ConTEXt \cap and \Cap, section 10.2.1.
```

6.6

```
ConTEXt , . .
```

6.6.1

```
ConTEXt «color», , , . . . , :
\setuphead
[chapter]
[color=blue]
, , , , , .. , ( , ) .
, , , , , 1 semantic colouring , ,
\color[red]{ }
, .
\definehighlight[important][color=red]
\important{ }
```

6.6.2

```
, , ( ), \setupbackgrounds \setupcolors. ,
\setupbackgrounds
[page]
[background=color,backgroundcolor=blue]
. «backgroundcolor» .
( , ), \setupcolors, «textcolor» . :
```

`\setupcolors[textcolor=red]`

, .

6.6.3

:

`\color[ColourName]{Text to colour}`

`\startcolor[ColourName] ... \stopcolor`

. « », \colored. :

Three \colored[r=0.1, g=0.8, b=0.8]{coloured} cats

Three coloured cats.

6.6.4

ConT_EXt , table 6.5.¹

Name	Light tone	Medium tone	Dark tone
black			
white			
gray	lightgray	middlegray	darkgray
red	lightred	middlered	darkred
green	lightgreen	middlegreen	darkgreen
blue	lightblue	middleblue	darkblue
cyan		middlecyan	darkcyan
magenta		middlemagenta	darmagenta
yellow		middleyellow	darkyellow

6.5 ConT_EXt

, ,

`\usecolors[CollectionName]`

CollectionName

- «crayola», 235 colours imitating marker shades.
- «dem», 91 colours.
- «ema», 540 colour definitions based on colours used by Emacs.
- «rainbow», 91 colours for use in maths formulas.
- «ral», 213 colour definitions from the Deutsches Institut für Gütesicherung und Kennzeichnung (German Institute for Quality Assurance and Labelling).
- «rgb», 223 colours.
- «solarized», 16 colours based on the solarized scheme.
- «svg», 147 colours.
- «x11», 450 standard colours for X11.
- «xwi», 124 colours.

«context/base/mkiv» , «colo-imp-NOMBRE.mkiv». , . .

¹ ConT_EXt, , , , - «orange» - table 6.5 - .


```
, , texshowcolor[CollectionName], . , (\usecolors[CollectionName]),
\color \startcolor . :

\usecolors[xwi]
\color[darkgoldenrod]{Tweedledum and Tweedledee}

:
```

Tweedledum and Tweedledee

6.6.5

```
\showcolor , , , , , ConTeXt . \showcolor , . , section 6.6.4, ,
, \showcolor[solarized] 16 :
```

		0.561	0.514	0.580	0.588	base0
		0.460	0.396	0.482	0.514	base00
		0.409	0.345	0.431	0.459	base01
		0.162	0.027	0.212	0.259	base02
		0.123	0.000	0.169	0.212	base03
		0.615	0.576	0.631	0.631	base1
		0.909	0.933	0.910	0.835	base2
		0.965	0.992	0.965	0.890	base3
		0.457	0.149	0.545	0.824	blue
		0.487	0.165	0.631	0.596	cyan
		0.510	0.522	0.600	0.000	green
		0.429	0.827	0.212	0.510	magenta
		0.422	0.796	0.294	0.086	orange
		0.395	0.863	0.196	0.184	red
		0.473	0.424	0.443	0.769	violet
		0.530	0.710	0.537	0.000	yellow

```
RGB , \showcolorcomponents[ColourName]. , - , . -
, \showcolorcomponents[darkgoldenrod] :
```

color	name	transparency	specification
white black	darkgoldenrod		r=0.720,g=0.530,b=0.040

6.6.6

```
\definecolor , . , . :
\definecolor[New colour][Old colour]
, «New colour» , «Old colour».
\definecolor . :
\definecolor[ColourName][Definition]
```

Definition :

- RGB colours: RGB ; , : („r”), („g”) („b”). 0 1.
\definecolor[lime 1][r=0.75, g=1, b=0]: Text in “lime 1”.
- Hex colours: RGB, , , , -, - :

`\definecolor[lime 2][x=BFFF00]: Text in "lime 2".`

- CMYK colours: `« »` : cyan („c”), magenta („m”), yellow („y”, yellow) black („k”, key). `0 1:`

`\definecolor[lime 3][c=0.25, m=0, y=1, k=0]: Text in "lime 3".`

- HSL/HSV: `(„h”, hue), („s”) („l” „v”,). 0 360; 0 1.`

`\definecolor[lime 4][h=75, s=1, v=1]: Text in "lime 4"`

- HWB colours: HWB - CSS4, `(„h”, hue), („w”, whiteness) („b”, blackness).`
`0 360, 0 1.`

`\definecolor[Azure][h=75, w=0.2, b=0.7] Text in "Azure".`

- Greyscale: `(„s”, scale), . 0 1.:`

`\definecolor[light grey][s=0.65]: Text in "light grey".`

`... ,`

`\definecolor[maincolour][0.6(orange)]`

```

: 7.1 ; 7.2 ; 7.3 , ; 7.4 ; 7.4.1 \setuphead \setupheads; 7.4.2
; 7.4.3 ( ); 7.4.4 ; 7.4.5 ; 7.4.6 , ; 7.4.7 ; 7.4.8 \setuphead
options; 7.5 ; 7.6 ;

```

7.1

(.), , . :,, «», - - , «», . «» «». () «» «», «» «», , , ; (, , . „”(,), «title», «chapters», «section», «subsections». - , , .

, ConT_EXt . «».

, . «section», , , - , , ConT_EXt «section». , , , , ConT_EXt section.

«» «section» () :

- , , , . «sections» («») . . , -- , , , , .

. , . ConT_EXt , , , , , .

- , «» «title» «» «label». :

- () , .

- , , .

ConT_EXt , , , , , . ConT_EXt , , , .

7.2

ConT_EXt . , , , / .

ConT_EXt , [table 7.1](#).

Level	Numbered sections	Unnumbered sections
1	\part	--
2	\chapter	\title
3	\section	\subject
4	\subsection	\subsubject
5	\subsubsection	\subsubsubject
6	\subsubsubsection	\subsubsubsubject
...

7.1 ConT_EXt

:

- [table 7.1](#) . , (\startchapter ... \stopchapter .

- 6 . 12 : texsubsubsubsection \subsubsubsubsection, - \subsubsubsubsubsubsubsubsubsubsection, \subsubsubsubsubsubsubsubsubsubject.

, () !-, , , , . , , , , , ; , .

, «» , : , «subsubsubsection», «sub»! , , (subsubsection), [section 7.5](#), , , .

- `(\part) ()` , , . , (, ,), .
 , `\part` , , `ConTeXt`, ; , , , , , .
- «», . , , , . (section), (section).

7.3 ,

, , (. section 7.5), (, , «section»):

```
\section [Label] {Title}
\section [Options]
\startsection [Options] [Variables] ... \stopsection
```

- , , , Mark IV .
 - , «», : , - . , , (. section 9.2). .
 - `ConTeXt`: , , , .
 , `sections 3.3.1 3.4` , `ConTeXt` , - . , , , . `ConTeXt` ,
`TeX`, , .
(OptionName = Value) :
 - reference: .
 - title: , .
 - list: , .
 - marking: , .
 - bookmark: , PDF.
 - ownnumber: , ; , .
, «list», «marking» «bookmark» , «title». , , ; `\nomarking \nolist (-)`. , , («title») , , , , `ConTeXt`, . : «list», «marking» «bookmark». , , .
- , , «», «test» , «Chapter test» «A Test Chapter».

```
\chapter
[
  title={A Test Chapter},
  reference={test},
  marking={Chapter test}
]
```

`\startSectionType` . , , , `ConTeXt` , , Mark IV; , , , , XML EPUB. , XML .

```
\startSectionName, . \structureuservariable.
ConTeXt , , , , . ConTeXt , .
```

7.4

7.4.1 `\setuphead \setupheads`

`ConTeXt` , () , , . `\setuphead` , :
`\setuphead[Sections][Options]`

- Sections -- (), . :
 - (, , ..), , . «section-NumLevel», NumLevel - . , «section-1» «part», «section-2» «chapter» ..
 - . . [section 7.5](#).
- Options . (OptionName = value). (), , . , , . . .
 , `\setuphead` . , , . : , , . :
 •
 , ; : . , , - «chapter» (level 2), «»; «» «title» «» «chapter».
- , , , . . : , , , .. , ,
`\setuphead ConTeXt \setupheads`, . `ConTeXt`, , . , , . , «style» «», ,
 , , , . , , , , «number» «color»., , `\setupheads[color=blue]` , .
 , , `\setupheads` (,), `\setuphead`.
 : , , `ConTeXt` wiki, , : , `\startSectionName`.
`\setupheads`, `\setuphead`, , , . , «», , .

7.4.2

, , , , `ConTeXt` . :



- , , . , , «part», . , , -- «placehead», «yes», «no», «hidden», «empty» «section». . , , , :
`\setuphead`
`[part]`
`[placehead=yes]`

, , . list marking , , . `\nolist \nomarking`, . :

`\chapter{Influences of \nomarking{19th century} impressionism \nomarking{in the 21st century}}`

«Influences of ... impressionism ...» header.

- . (part, chapter, section, subsection...), (title, subject, subsubject). , , «number» «incrementnumber», -- yes no. yes, - no.
 ? ; - (incrementnumber), - (number). incrementnumber=yes
 number=no, , (), - . , . [subsection section 8.1.7](#).
- The label . . , , . , «» «» . `\setuphead`, `\setuplabeltext`.
 . , , «» , :

`\setuplabeltext`
`[chapter=~]`

«~», . , . (); , , «Chapter1» «Chapter 1».

7.4.3

()

, (, ...) , , «number» «incrementnumber», `\setuphead.`

, «yes» «ownnumber». «ownnumber=yes» , . :

- , . :
`\chapter{13}{Chapter title}` , 13.
- , `ConTeXt (\SectionType [Options] \startSectionType[Options])`, «ownnumber» . :

`ConTeXt` , , ; , , .. , `ConTeXt` , :

- , , , „1”.
- , , 0.

, , , 1, , .. 0; .

, , `\setupheadnumber` :

`\setupheadnumber[SectionType][,]`

Number, -- , . , Number, , , 1; 10, 11.

; , , , `\setupheadnumber[section][+5]` 5 ; `\setupheadnumber[chapter][14, +5]`
 , 15 (14 + 1), 20 (15 + 5), 25 ..

, . : , , , , , . , «1.3.2.4».

, :

- `conversion ()`: . , :
 - : : 1, 2, 3, ... n, N or .
 - . :
 - * :I, R, Romannumerals.
 - * :i, r, Romannumerals.
 - * (small caps): KR, RK.
 - . :
 - * :A,
 - * :a,
 - * (small caps): AK, KA
 - . , , , „3” „”. T :
 - * , :.
 - * :.
 - : , . , `ConTeXt` , , , . `ConTeXt` : 0, 1, 2 3. , . , , , 9
0 1 12 2 3:

- text: . , L^AT_EX \paragraph \subparagraph.
- paragraph: .
- normal: , ConT_EXt . «paragraph».
- middle: . , .
, , «alternative=middle», «align», . «left», «middle» «flushright». , .
- margintext: () , .
«alternative»:
- margin/inmargin: - . . «margin» «inmargin».
- reverse: : , , , .
- top/bottom: , , , .

7.4.6 ,

, («before») («after»). : , , «before=\blank» . , «before={\blank[3*big]}».
, . «before=backslash hairline, after=\hairline», .

«before» «after» «commandbefore» «commandafter». , , , , .

, «page», , , «yes» , «left», , , «right», , , «no», . , , «chapter»
, «continue=no», , , .

ConT_EXt. , , , , : , , , . «continue», , , : «continue=yes»,
, . . «continue=no», .

(\start ... \stop), «insidection», , , , . , , ,
(«insidection=\placecontent»)

7.4.7

- , \setuphead :
- Interlined. « », , \defineinterlinespace \setupinterlinespace.
- Alignment. «align» , . , : «flushleft» (), «flushright» (), «middle» (), «inner» ()
«outer» ().
- Margin. «margin» .
- Indenting the first paragraph. . «indentnext» («», «» «»), . (,) -- .
- Width. , . . «width» . «numberwidth» «textwidth» .
- . «distance» «textdistance» , .
- . «header» «footer».

7.4.8 \setuphead options

, , , . \setuphead , . , , , , , .

7.5

\definehead, :

`\definehead[CommandName][Model][Configuration]`

- `CommandName` , .
- `Model` , , .
, , : , , , .
- `Configuration` . , `\setuphead`.
. `\setuphead` , , , `ConTeXt` , .

7.6

, , , , ; . , , , , , , , . :

- , , , , , , , ..
- , , , , , .. .
- , , , , , , , , ..
- , , , , , ..

, [table 7.2](#).

Part of the document	Command
Initial part	<code>\startfrontmatter [Options] ... \stopfrontmatter</code>
Main body	<code>\startbodymatter [Options] ... \stopbodymatter</code>
Appendices	<code>\startappendices [Options] ... \stopappendices</code>
Final part	<code>\startbackmatter [Options] ... \stopbackmatter</code>

7.2 Environments that reflect the document's macrostructure

: «page», «before», «after» «number», , `\setuphead`. (. [section 7.4](#)), ,
«number=no» .

, - ., frontmatter.

`\setupsectionblock` , :

`\setupsectionblock[Block name] [Options]`

Block name frontpart, bodypart, appendix backpart, , : «page», «number», «before»
«after». , , , frontmatter , :

```
\setupsectionblock
[frontpart]
[
before={\setuppagenumbering[conversion=Romannumerals]}
]
```

`ConTeXt` , :

- .
- :

- **frontmatter and backmatter** .
- **bodymatter** .
- **appendices** .

\definesectionblock.

: 8.1 ; 8.1.1 ; 8.1.2 ; 8.1.3 ; 8.1.4 : criterium; 8.1.5 : : alternative;
 8.1.6 ; 8.1.7 ; TOC; ; , , ; , ; 8.2 , ; 8.2.1 ConT_EXt;
 8.2.2 , ; 8.2.3 ; 8.3 (); 8.3.1 ; , ; ; 8.3.2 ; 8.3.3 ;

. , . () , «». (, ,), - .

, section 9.2.

8.1

8.1.1

, , . , . () , . , , , () , ; , , « »
 . : , , , , , .

ConT_EXt . :

- .
- .
- .
- , .

, , .. section 9.3

ConT_EXt , , , , . ConT_EXt ; , , , , . , wiki : , -- -- , . ,
 , (): ConT_EXt -, . , , , , - , - , . , , , , ; .

8.1.2

(TOC) (, ..) -- \completecontent \placecontent. , ; , -- «».

\completecontent:

- , «».
- , ConT_EXt , , \title (. section 7.2). \completecontent Chapter (\chapter),
 Title (\title). , , , Title , , .
- (\title) , ; .
- .

, , (\\completecontent). , , , section 8.1.3, , , (, \placecontent),
 \completecontent , , ; . , , «criterium=all».

. section 8.1.3.

, , \setupheadtext, :

\setupheadtext[Language][Element=Name]

Language , ConT_EXt (section 10.5), Element , ((«content»), Name - , .

\setupheadtext[en][content=]

, , `\completecontent`, «» «Content».

, `\completecontent` , `\placecontent`, ().

8.1.3

, , - `\placecontent`, :

`\placecontent[Options]`

, , `\setupcombinedlist` ()., :

`\setupcombinedlist[content][list={chapter,section}]`

.

, . , , , ., :

- `\placecontent` , (,) .

, , , , , ; , , , , TOC,

`\setupcombinedlist[content][list={chapter, section, subsection, ...}]`

- , , , , , , () .

, `\placecontent` , , ConT_EXt Mark IV, `\startSectionType` `\stopSectionType`
 .. , , `\placecontent` , :

- , (), ., , , .

- , , , ., , , ; , , .

, , `\placecontent` , , , , ..

, .. , , , : :

- Chapter 1
 - Section 1.1
 - Section 1.2
 - * Subsection 1.2.1
 - * Subsection 1.2.2
 - * Subsection 1.2.3
 - Section 1.3
 - Section 1.4
- Chapter 2

: `\placecontent`, 1, , , `\completecontent`, . 1 1.1, ; 1.2, . , , 1.1
 1.2, . , .

, , , ., criterium .

, `\placecontent`, , , , () ConT_EXt. criterium, , ; alternative, .

8.1.4 : criterium

`\placecontent` . criterium ., , :

- all: , , .
- previous: (,) previous `\placecontent`. , .

- part, chapter, section, subsection...: , .
- component: (. [section 4.6](#)) , , texplacecontent [\completecontent](#).

8.1.5 : : alternative

alternative . [table 8.1](#).

alternative	TOC
a	Number -- Title -- Page One line per entry
b	Number -- Title -- Spaces -- Page One line per entry
c	Number -- Title -- Leader dots -- Page One line per entry
d	Number -- Title -- Page Continuous TOC
e	Title Framed
f	Title ,
g	Title

8.1

(, ,), , . , , , , , ConT_EXt.

, , , - , , .

8.1.6

, alternative [\placecontent](#) [\completecontent](#) , , . [\setuplist](#), :

[\setuplist\[Element\]\[Configuration\]](#)

Element . , , .. , . 54 , , , ; , , , , TOC.

, , , , , alternative, : , . :

- () : , , , ('a' 'b' 'c' 'd'), headnumber=no pagenumber=no, , , , (headnumber) (pagenumber) .
- : , , , () : , . , style color, numberstyle, textstyle pagestyle () and numbercolor, textcolor pagecolor .

, , . command, numbercommand, pagecommand and textcommand.

ConT_EXt , , , command, , -- pagecommand. , , , () :

[\setuplist\[section\]\[textcommand=\Cap\]](#)

- : before after , (before) (after) . , .
- : margin, , .
- , : , . , (interaction=no) , , (interaction=number interaction=sectionnumber), (interaction=text interaction=title) (interaction=page interaction=pagenumber).
- :
 - width: . , .
 - symbol: symbol. : , . none TOC.
 - numberalign: ; left, right, middle, flushright, flushleft.

TOC , . . , , . , , (\placecontent \completecontent) , . :

```
\start
\setupinterlinespace[small]
\placecontent
\stop
```

8.1.7

```
(\placecontent \completecontent), . , , . settings, , automatic. :
```

- .

- , .

- TOC.

- , , , , .

- TOC

```
, ConTEXt , , , , (. section 7.4.2), (number and incrementnumber) ( ),
```

```
\setuphead . , , incrementnumber=yes number=no , .
```

```
, , - , title - , incrementnumber , yes, , , , \setupcombinedlist:
```

```
\setuphead
```

```
[title]
```

```
[incrementnumber=yes]
```

```
\setupcombinedlist
```

```
[content]
```

```
[list={chapter, title, section, subsection, subsubsection}]
```

```
, , \setuplist , ;:
```

```
\setuplist[title][style=bold]
```

```
: ( title). , , .
```

```
.
```

```
( , ), .
```

```
, , , \writetolist, :
```

```
\writetolist[SectionType][Options]{Number}{Text}
```

- , : chapter, section, subsection ..

- , , . , , , ; , .

```
ConTEXt (. section 3.6), , , \setuplist, , TOC. , , - , .
```

- , , .

- , .

```
, , , . section , ; , \writetolist. , , , , , , :
```

```
\subject{Bibliography}
```

```
\writetolist[section]{}{Bibliography}
```



```

, section, subject, , , (section).
, , -- \writebetweenlist, , , , :
\writebetweenlist[section]{\hrule}
. , ,
, , , list \setupcombinedlist, , , , .
, , , , title chapter, subject section .. , .
, - , , , , trick, , .:

\definehead[MySubsection][subsection]
\section{First section}
\subsection{First subsection}
\MySubsection{Second subsection}
\subsection{Third subsection}

, MySubsection , , , MySubsection.
.,
, , , , :
• (SectionType{Title}), \SectionType [Options] \startSectionType [Options], , ,
list (. section 7.3).
• \nolist: , , .:

\chapter
[title={An \nolist{approximate and slightly repetitive}
introduction to the reality of the obvious}]

«An approximate and slightly repetitive introduction to the reality of the obvious»,
«An ... introduction to the reality of the obvious».

: , \nolist, ConTEXt, wiki. , , \nolist .

```

8.2 ,

```

ConTEXt - , , , , , , , ConTEXt -- . . ConTEXt , «content», , :
\placecontent \completecontent.

```

8.2.1 ConT_EXt

```

ConTEXt - , :
1. .
2. .
3. , .
; , , .. , , , \place, \placetable, \placefigure ..
ConTEXt , , , , , chapter, , section; ( table) ( figure)., ConTEXt, , , .
, , , : , , . incrementnumber=yes, , .
( ConTEXt) \definelist,

```

`\definelist[ListName][Configuration]`

:

- , `ConTeXt` (. section 13.5), , , `\placeWhatever`. , : `\placefigure`, , .
- `\Writetolist [ListName]`, subsection of section 8.1.2 8.1.3).

, :

`\placelist[section]`

, , , `\setuplist` interaction=no. , , : (, ..).

:

`\placelist[ListName][Options]`

`\setuplist[ListName][Configuration]`

`\setuplist` section 8.1.6, `\placelist` , `\placecontent` (.section 8.1.3).

8.2.2 ,

, , , , `ConTeXt` , `\placefigure`, , `\placelist[figure]`. (, `\completecontent`), `\completecontent`, `\completecontent`. `ConTeXt`: («table»), («graphic»), `intermezzos` («intermezzo») («chemical»), `ConTeXt` , : (`\placelistoffigures`, `\placelistoftables`, `\placelistofgraphics`, `\placelistofintermezzi` `\placelistofchemicals`), , : (`\completelistoffigures`, `\completelistoftables`, `\completelistofgraphics`, `\completelistofintermezzi` and `\completelistofchemicals`), `\completecontent`

, (. section 13.5), `\placelistof<FloatName>` `\completelistof<FloatName>`.

, `\definelist`, `\placelist[ListName]` `\completelist[ListName]`.

8.2.3

, , , . `ConTeXt` «content», `\definecombinedlist`, :

`\definecombinedlist[Name][Lists][Options]`

- Name: , .
- Lists: , , .
- Options: . , , . () - criterium (subsection 8.1.4 of section 8.1.3) and alternative (subsection 8.1.5 in the same section).

`\definecombinedlist` , `\placeListName`, , , ,

`definecombinedlist[TOC]`

`\placeTOC`;

`definecombinedlist[content]`

`\placecontent`

, `\placecontent!` , ? : , `ConTeXt` :

`\definecombinedlist`


```

[content]
[part, chapter, section, subsection,
subsubsection, subsubsubsection,
subsubsubsubsection]

, ( ) \setupcombinedlist, criterium (. insubsection[sec:criteriumlist])
alternative (. subsection 8.1.5 ).), list , .

ConTeXt (. section 3.6) list , \setupcombinedlist, (, , , ). , .

```

8.3 ()

8.3.1

```

, , , .

, . . . , , , , , , , .

:

1. , , . , .
2. , , , , , , , ConTeXt, -- , , . .
3. , , . ConTeXt : \placeindex.

. ,

, , , , , . : , , standard .

mark , , , , \index, :

\index[Alphabetical]{Index entry}

Alphabetical - , , , , Index entry -- , , . , , , ConTeXt.

, , , , , \TeX, \index{\backslash TeX} "t" "TeX", , , , .
\index[tex]{\backslash TeX}.

index entries , . , , , , , ; , , «disease, Hodgkins», «Hodgkin's disease»,
«».

, .

( ), , «+».:

\index{Entry 1+Entry 2}
\index{Entry 1+Entry 2+Entry 3}

Entry 2, Entry 1. Entry 3, Entry 2, , Entry 1.

My \index{dog}dog, is a \index{dog+greyhound}greyhound called Rocket.
He does not like \index{cat+stray}stray cats.

:

- \index , , . , , :

* , , ConTeXt , , , .

```

```

* , , , , .
- , .
- , \index, , , «», , , «».
- :, , , , , , , , , .
, , , , , , , , -
.

```

```

\index, \seeindex, :
\seeindex[Alphabetical] {Entry1} {Entry2}
Entry1 - , ; Entry2 -- . :
\seeindex{ \}{ }
\seeindex „+” .
.

```

```

PlaceMacroplaceindex\placeindex \completindex commands. \index , , , ,
\index. , , , , , .
\placeindex \completeindex \content \completecontent (. section 8.1.2):
\placeindex) , \completeindex , «Index», .

```

8.3.2

```

ConTeXt «register»; :
\setupregister[index][Configuration]
:
- , . :
* , . alternative=A .
* . textstyle, textcolor, textcommand deeptextcommand , pagestyle,
pagecolor pagecommand . pagenumber=no ( , ).
* distance ; .
, style, textstyle, pagestyle, color, textcolor, pagecolor , . command,
pagecommand, textcommand deeptextcommand, section 7.4.4, .
- , , , (before) (after) , , (n), (balance), (align) ..

```

8.3.3

```

, ; , , , , , , . ; , , , , , ..
, \defineregister, :
\defineregister[IndexName] [Configuration]

```

IndexName -- , , Configuration .

\setupregister[IndexName] [Configuration]

IndexName IndexName, , , , \index. seeIndexName , .

: ConT_EXt :

\defineregister[macro]

\macro. ConT_EXt , \placemacro \completemacro.

\IndexName , \placeIndexName \completeIndexName -- .
 , . , \placeIndexName \placeregister[IndexName], \completeIndexName
 \completeregister [IndexName].

: 9.1 ; 9.2 ; 9.2.1 ; 9.2.2 ; , , \ref; , ; 9.2.3 , ;
9.3 ; 9.3.1 ; 9.3.2 ; 9.4 ; 9.4.1 , , ; 9.4.2 , ; 9.5 PDF-;

9.1

```

- :
- , , , , .. , , .
- , . , - , , , .
    . , ( , «. 3.2» « 7»), . « » « » , , - . ,
    « » (cross references), «» (references) « » (internal references), .
, , , , ( (origin)), , , -- (target). , , , , .

- , , - : , , , , , , . interactive.
- , , , - , , , , , , , .
    ; , , ( , , ), .
, , - , : , ConTeXt, , , , , .

```

9.2

1. `ConTEXt` . , ; , , , , ..
2. , , , . , .

«origin \rightarrow target» (« \rightarrow »), , , , - . , , .

9.2.1

```
(label) , , , , . ConTeXt references, , , .
, :
- , , . , ConTeXt , , , ( ), , , , , .
- , , , .. , ConTeXt - (. section 4.2.1), , , quotation My nice label «My nice
label» , .
, , , , , , («My nice label»), , , , „sec:Target labels”.
, :
1. , , . , , - , , , «» «reference», . .
, , , , (section 7.3), . :
\section[Label]{Title}
```

```

, ConTEXt,

\startsection
[title=Title, reference=Label, ... ]

, (, ..).

, , , , , , , (, ..), , , , ..

, , , ConTEXt .:

\chapter[label1, label2, label3] {My chapter}

, , , , - ConTEXt, .

```



2. PlaceMacropagereference\pagereference, \reference, \textreference

```

\pagereference[Label]
\reference[Label]{Text}
\textreference[Label]{Text}

* , \pagereference, .

* , \reference \textreference, , , .

\reference, \textreference , , , ( ), .

, . , :

- ( , ) , , , , , .

- , , ( , , ..), , ( , ..)

- title, , , , \placetable, .

- , \pagereference, .

- \reference \textreference, , , .

\reference \textreference. , , , , , ( ); , , \reference
\textreference

```



9.2.2

```

, , , , , . -- , , , \goto, section 9.4.2.

.

, , , , , ConTEXt : , , :

- \at .

- , ( , , , ..) , \in .

- , , , ( , , \placefigure, ..), \about .

\at \in \about :

\at{Text}[Label]
\in{Text}[Label]
\about{Text}[Label]

```

- Label - ,
 - , , . , , , , , , , ().
 , , \in , \at -- .

In \in{section}[sec:target labels], that begins on \at{page} [sec:target labels], the characteristics of labels used for internal references are explained.

In section 9.2.1, that begins on page 76, the characteristics of labels used for internal references are explained.

, ConT_EXt (. section 9.3), , \in \at, . , :

In section \in{}[sec:target labels], that begins on page \at{} [sec:target labels], the characteristics of labels used for internal references are explained.

In section 9.2.1, that begins on page 76, the characteristics of labels used for internal references are explained.

, section page, , , .

ConT_EXt , \at, \in \about, , , , , «??».

ConT_EXt :

1. .
2. , (. sections 4.5.1 and 4.6).
 . , (), «??» PDF, , .

., , \ref

\at, \in \about . , - . \ref, :

\ref[Element to retrieve][Label]

:

- text: , .
- title: , .
- number: , . , .
- page: .
- realpage: .
- default: , ConT_EXt . , number.

, \ref , \at, \in \about, , . , , , 1500 () . \ref , , , \about.
 \ref , (, ,), .

.,

ConT_EXt , the link address. «link address» , .: , , . . ,
 , . ConT_EXt PlaceMacrosomewhere\somewhere, :


```

:
- ConTeXt . :
* , , .. , .
* , , .
* , , , , .
* ..
- , , . , , , , .. , , - . , :.

```

9.3.2

```

\setupinteraction, , ; , , . :
- color: .
- contrastcolor: , , . , .
- style: .
- title, subtitle, author, date, keyword: , , PDF-, ConTeXt.
- click: , .

```

9.4

```

, , URL-, , .

```

9.4.1 , ,

```

URL-, , , , ConTeXt . , URL- , , URL- , . , URL- , , URL-.
ConTeXt URL-. URL-, , . - URL-, . :

```

```

\useURL

```

```

URL- , , , , . URL-, .
:

```

1. \useURL[Associated name][URL]
2. \useURL[Associated name] [URL] [] [Link text]

```

- URL , . , URL-, - , .

```

```

- . , URL- , , - , . : , , ConTeXt:
http://www.pragma-ade.com/general/manuals/what-is-context.pdf. , :

```

```

\useURL [WhatIsCTX]
[http://www.pragma-ade.com/general/manuals/what-is-context.pdf]
[]
[What is \ConTeXt?]

```

```

:

```

```

\useURL [WhatIsCTX]
[http://www.pragma-ade.com/general/manuals/]
[what-is-context.pdf]

```


[What is \ConTeXt?]

«WhatIsCTX», , ; URL- «WhatIsCTX».

URL-, \useURL, \url[Associated name], URL-, , . , URL-, .

, URL-, \url, , \setupinteraction, , \setupurl, (style) ().

\hyphenatedurl

URL-, , ConTeXt URL-, , . :

\hyphenatedurl{URLaddress}

\hyphenatedurl, URL-. , , URL-, . , .

:

\sethyphenatedurlnormal{Characters}

\sethyphenatedurlbefore{Characters}

\sethyphenatedurlafter{Characters}

, , , , , , , , .

\hyphenatedurl , URL-, . \useURL , , . :

\useURL [WhatIsCTX]

[<http://www.pragma-ade.com/general/manuals/what-is-context.pdf>]

[]

[\hyphenatedurl{<http://www.pragma-ade.com/general/manuals/what-is-context.pdf>}]

\hyphenatedurl , , :

- % \letterpercent
- # \letterhash
- \ \letterescape or \letterbackslash.

, \hyphenatedurl ,

\hyphenatedurlseparator, . , URL-, , , , . :

\def\hyphenatedurlseparator{\curvearrowright}

:-

<https://support.microsoft.com/?scid=http://support.microsoft.com:80~/support/kb/articles/Q208/4/27.ASP&NoWebContent=1>.

9.4.2 ,

URL- \useURL, \from, , - . \useURL . :

\from[Name]

Name -- , URL- \useURL.

, , \goto, , . :

\goto{Clickable tex}[Target]

Clickable tex - , , , Target :

- . \goto , , , \in \at. , , , .

- URL. , URL-, :

`\goto{Clickable text}[url(URL)]`

URL, , , URL- `\useURL`, URL-, URL- , ConT_EXt ConT_EXt. URL-
ConT_EXt .

9.5 PDF-

PDF , PDF , .

ConT_EXt PDF- , , `\placebookmarks`, :

`\placebookmarks[List of sections]`

List of sections - , .

:

- `\placebookmarks` , . (`\starttext` `\stoptext`, `\startproduct` `\stopproduct`) ,
: , . , .

- , (`\definehead`), . .

- - , .

- «all», , , ; , , , , , , .

PDF ; , , , PDF- , , Acrobat, , , .

III

,,

: 10.1 , ; 10.1.1 ; 10.1.2 ; 10.1.3 ; 10.1.4 ; 10.1.5 ; 10.1.6
 ; 10.2 ; 10.2.1 , ; 10.2.2 ; 10.2.3 Verbatim; 10.3 ; 10.3.1 ;
 10.3.2 ; 10.3.3 ; 10.4 ; 10.5 ; 10.5.1 ; 10.5.2 ; 10.5.3 , ;
 10.5.4 ; , ; \translate; \quote \quotation;

: , , , , .

, «» «character», ConT_EXt, , .

10.1 ,

, UTF-8 (. section 4.1), , , ., , , UTF-8, . , , () , ; , , ..
 ConT_EXt .

10.1.1

(), , . , , (), , , (grave accents cedillas) (cedillas, grave
 circumflex accents); , , , , «navegação».

T_EX , ; , (, ,). , , .- , , , (, ...) .

Acute accent	ú	\'u	\uacute
Grave accent	ù	\`u	\ugrave
Circumflex accent	û	\^u	\ucircumflex
Dieresis or umlaut	ü	\"u	\udiaeresis, \uumlaut
Tilde	ũ	\~u	\utilde
Macron	ū	\=u	\umacron
Breve	u	u	\ubreve

10.1

table 10.1 , . , . „u” , (¹), .

- (. section 3.2), , , ., : „ã”, \=a \=_a. ² breve (\u), , .

- , , \emacron „e” (ē), \Emacron „E” (Ē), texAmacron „A” (Ā).

table 10.1 , , . table 10.2.

Scandinavian O	ø, Ø	\o, \O	
Scandinavian A	å, Å	\aa, \AA, {\r a}, {\r A}	\aring, \Aring
Polish L	ł, Ł	\l, \L	
German Eszett	ß	\ss, \SS	
„i” and „j” without a point	ı, Ĳ	\i, \j	
Hungarian Umlaut	ű, Ű	\H u, \H U	
Cedilla	ç, Ç	\c c, \c C	\ccedilla, \Ccedilla

10.2

¹ , table 10.1, „e”, .

² , , , , „_”.

, (epsilon, kappa, theta, pi, rho, sigma and phi) .

10.1.4

, , $\mathrm{T}_{\mathrm{E}}\mathrm{X}$ (, $\mathrm{ConT}_{\mathrm{E}}\mathrm{Xt}$) . . , [Appendix](#) .

10.1.5

- , , - . UTF-8 (), . $\mathrm{ConT}_{\mathrm{E}}\mathrm{Xt}$, . , [on this link](#).

, , , . `\definecharacter`, :

`\definecharacter` Name Character

- Name -- , . , .

- Character -- , , `\Name`. :

* (-).

* , , , . , , , `\showfont`[Font name].

* , .

, (10.1.2). , : „ \mathcal{D} “. , , `\decontract`, , `\decontract`. :

`\definecharacter decontract \mathcal{D}`

, , , , , , . , , „ \mathcal{D} “ .

$\mathrm{ConT}_{\mathrm{E}}\mathrm{Xt}$, `\definecharacter`. . :

`\buildmathaccent` Accent Character

`\buildtextaccent` Accent Character

`\buildtextbottomcomma` Character

`\buildtextbottomdot` Character

`\buildtextcedilla` Character

`\buildtextgrave` Character

`\buildtextmacron` Character

`\buildtextogonek` Character

: , $\mathrm{ConT}_{\mathrm{E}}\mathrm{Xt}$ (c, k, l, n, r, s y t), . „b“, `\buildtextcedilla` :

`\definecharacter bcedilla {\buildtextcedilla b}`

`\bcedilla`, „b“ : „ \mathfrak{b} “. «» , , . , .

`\buildmathaccent` `\buildtextogonek`. .

`\buildtextaccent` , . «`\buildtextaccent`», , - , , ; , , , , . , , , ,

, . , , „ \mathcal{D} “,

`\definecharacter decontract {\buildtextaccent \mathcal{D} E}`

„ \mathcal{D} “, (« \mathcal{D} »), . , . ,

`\definecharacter unusual {\buildtextaccent _ "}`

„_“, `\unusual` .

-- , , . , „ \mathcal{Z} “:

- `\buildtextbottomcomma` , (`„z”`).
 - `\buildtextbottomdot` , (`„z”`).
 - `\buildtextcedilla` , (`„z”`).
 - `\buildtextgrave` , (`„z”`).
 - `\buildtextmacron` , (`„z”`).
- , `\buildtextgrave` ,, `\buildtextaccent;` , , , . , :

ž -- ž

10.1.6

«ConT_EXt Standalone» , ConT_EXt , . «cc», «cow», «fontawesome», «on», «move» «nav».

- cc «cc».
- cow «cownormal» and «cowcontour».
- fontawesome «fontawesome».
- jmn «navigation 1», «navigation 2», «navigation 3» and «navigation 4».
- mvs «astronomic», «zodiac», «europe», «martinvogel 1», «martinvogel 2» and «martinvogel 3».
- nav «navigation 1», «navigation 2» and «navigation 3».

was, «wasy general», «wasy music», «wasy astronomy», «wasy astrology», «wasy geometry», «wasy physics» «wasy apl».

, , :

`\usesymbols[Set]`
`\showsymbolset[Subset]`

: , «mvs/zodiac», :

`\usesymbols[mvs]`
`\showsymbolset[zodiac]`

:

Aquarius
 Aries
 Cancer
 Capricorn
 Gemini
 Leo
 Libra
 Pisces
 Sagittarius
 Scorpio
 Taurus
 Virgo

, . `\symbol` . :

`\symbol[Subset][SymbolName]`

```

subset - , , \usesymbols. , , ( mvs / zodiac),

\usesymbols[mvs]
\symbol[zodiac][Aquarius]

«», , , «character» , , , . \definecharacter, .

\definecharacter Aries {\symbol[zodiac][Aries]}

\Aries, «».

, , .:

\usesymbols[mvs]
\definesymbol[1][{\symbol[martinvogel 2][PointingHand]}]
\definesymbol[2][{\symbol[martinvogel 2][CheckedBox]}]
\startitemize[packed]
\item item \item item
\startitemize[packed]
\item item \item item
\stopitemize
\item item
\stopitemize

```

```

item
item
* item
* item
item

```

10.2

, , , . [Chapter 6](#), , , - , (), . ., (, ,), [section 12.5](#).

10.2.1 ,

```

. ConTEXt -- , , . , , , , :

- \word{text}: , , .
- \Word{text}: , , .
- \Words{text}: , , ; .
- \WORD{text} \WORDS{text}: , , .

\cap \Cap: , , , „x” (. 2), , , . (. section 6.5.2) :

1. \cap and \Cap , , , .

2. , -- , , , , \cap \Cap .

\cap \Cap , , , \Cap , , , , , „caps”, , .

,

```

The UN, whose \Cap{president} has his office at \cap{uN} headquarters...

The UN, whose PRESIDENT has his office at UN headquarters...

, , «UN» (), (quotationUN). \cap{uN} , , , , \cap : , ; \Cap,
.
 , , , , «capital» :

\cap{People who have amassed their
\cap{capital} at the expense of others
are more often than not
\bf decapitated} in revolutionary
times}.

PEOPLE WHO HAVE AMASSED THEIR CAPITAL
AT THE EXPENSE OF OTHERS ARE MORE
OFTEN THAN NOT DECAPITATED IN REVOLUTIONARY
TIMES.

\nocap, , \cap, \cap , .:

\cap{When I was One I had just begun,
when I was Two I was \nocap{nearly}
new (A.A. Milne)}.

WHEN I WAS ONE I HAD JUST BEGUN, WHEN
I WAS TWO I WAS nearly NEW (A.A. MILNE).

, \cap \setupcapitals, , . \definecapitals.

:

\definecapitals[Name][Configuration]
\setupcapitals[Name][Configuration]

«Name» \setupcapitals . , \cap. , , \definecapitals, - .

: «title», «sc» and «style», , «yes» «no» . «title» , (), «sc» ,
(«yes») («no»). , , , , . «style» , , \cap.

10.2.2

(. section 3.1), «_» and «^» . ConT_EXt :

- \high{Text}: , , .
- \low{Text}: , , .
- \lohi{Subscript}{Superscript}: , : , , :

\lohi{below}{above}

| above
below

10.2.3 Verbatim

verbatim (verbum = word + atim), «» «», , ConT_EXt, , , , , . ConT_EXt
\type, , , typing, . , ConT_EXt , . , , , , . \type
\starttyping , , .

, \type : (ConT_EXt), () .

ConT_EXt \type, , , , ; , .

:

\type 1Tweedledum and Tweedledee1
\type |Tweedledum and Tweedledee|

```

\type zTweedledum and Tweedledee
\type (Tweedledum and Tweedledee(
,      „1“, - „|“, - „Z”;: ConTEXt , \type -- ,      .      ,      ,      - '(',
„)“, , „(“ „)“ - , \type, , -, , .

, \type      :

-      „{“, „}“.

-      - „<“, „>“.      .

, \type , ,      «weird ()» .      , \type , ConTEXt; - \type, : ,
ConTEXt. :

\type *This is a closing curly bracket: *}*.

\type, \starttyping \setuptype \setuptyping.      \Definetype \Definotyping.
,      «setup-en.pdf» ( tex/texmf-context/doc/context/documents/general/qrcs.

\type :

- \typ: \type, but .

- \tex: , TEX ConTEXt: , . \type , , , . , \tex , ConTEXt.

```

10.3

10.3.1

```

( TEX) ConTEXt:

- , , , , ,      , ,      «A» «V» («AV») , „A” „V” („AV”). , , , , .

- ,      .

* , , , , ConTEXt ,      11.3. ConTEXt      ( , ), ,      .

* , , , , ConTEXt , , , , , .

      , , ( ,      ), , , , \setupspacing[wide] \setupspacing[pack].
      ( , , ), section 10.5.2.

```

10.3.2

```

, , , , . ConTEXt      : 1 \, :

\stretched[Configuration]{Text}

Configuration      :

- factor: , . . 0,05 .

- width: , , , , .

      , , width, , factor, 0,25, width factor . , , \stretch      , . , ,
0,25,      width, natural width ( factor 0).

- style: , , .

- color: , , .

```

¹ ConT_EXt -, ConT_EXt . , , , , : , -- .

, , , :

```
\stretched[width=4cm]{\bf test text}
\stretched[width=6cm]{\bf test text}
\stretched[width=8cm]{\bf test text}
\stretched[width=9cm]{\bf test text}
```

```
t e s t   t e x t
t e s t   t e x t
t e s t   t e x t
t e s t   t e x t
```

, „x” „t” «text» „e” „b” «test» , . , .

. , , ,

.:

. , , , \\\ .:

```
\stretched{test\\text}
```

```
test
```

```
text
```

```
\setupstretched.
```

```
\definestretched, , , (. section 3.6) , \setupstretched \setupcharacterkerning, \definecharacterkerning . - \stretch , , .
```

10.3.3

, , ConT_EXt , section 4.2.1. , , :

- \, (). , , (, 1000000) .:
quotation1\,473\,451 «1 473 451».

- \space «_» (, , , «_») .

- \enskip, \quad \qquad em, 1 em 2 ems ., em -- , „m”, ., 12 \enskip
6, \quad 12, \qquad 24 .

, , \hskip \hfill :

```
\hskip , .:
```

```
This is \hskip 1cm 1 centimetre\\
This is \hskip 2cm 2 centimetres\\
This is \hskip 2.5cm 2.5 centimetres\\
```

```
This is 1 centimetre
This is 2 centimetres
This is 2.5 centimetres
```

, .:

```
This is farce rather than
\hskip -1cm comedy
```

```
,
```

```
\hfill, , , , , , , , :
```

```
\hfill On the right\\
On both\hfill sides
```

```
On both
```

```
On the right
sides
```

10.4

« » , , , . : «» («rain + bow»), , . , . , (, !). , , ,
«French – Canadian» «(inter) communication» («intercommunication» , .).

```

ConTeXt , . , , , , .
«||», ConTeXt, . , , :
- ( ) , , « ||».
- / , , , , «joining|/|separating».
ConTeXt , . () , ConTeXt , \setuphyphenmark, , («--»). ,
«picture||frame», ConTeXt «Picture-frame».
\setuphyphenmark ( , ). : «-, ---, -, (.), =, /». , «==» ( , «--»).
«||» , , . , , „(inter)space”, , „input/output”. , , «(inter|)|space»
or «input|/|output». ,
MyKey|=| «|---|» (---).

```

10.5

```

, -. ConTeXt , , . :
- .
- .
- , .

```

10.5.1

```

ConTeXt, . :
- \mainlanguage, .
- \language, .
, (). , ISO 639-1, , , , .
table 10.5 , ConTeXt, ISO , , , , .1
,, () , :
\mainlanguage[es]
\mainlanguage[spanish]
\mainlanguage[sp]
, \language [Language code], , , \en , \fr , \es \ca . , , , , , , ,
. , , \language (\en, \fr, \de, ..) , (. section 10.5.3).
, , , , , . , , , ConTeXt, , , , ,
, , , .
, ( , ), , , : ( , ), , , , :
\setuplanguage[en][patterns={en, agr}]
, , , , , .

```

¹ **Table 10.5** , :
\usemodule[languages-system]
\loadinstalledlanguages
\showinstalledlanguages
(2020 .), , ConTeXt , .

Language	ISO code	Language (variants)
Afrikaans	af, afrikaans	
Arabic	ar, arabic	ar-ae, ar-bh, ar-dz, ar-eg, ar-in, ar-ir, ar-jo, ar-kw, ar-lb, ar-ly, ar-ma, ar-om, ar-qa, ar-sa, ar-sd, ar-sy, ar-tn, ar-ye
Catalan	ca, catalan	
Czech	cs, cz, czech	
Croatian	hr, croatian	
Danish	da, danish	
Dutch	nl, nld, dutch	
English	en, eng, english	en-gb, uk, ukenglish, en-us, usenglish
Estonian	et, estonian	
Finnish	fi, finnish	
French	fr, fra, french	
German	de, deu, german	de-at, de-ch, de-de
Greek	gr, greek	
Greek (ancient)	agr, ancientgreek	
Hebrew	he, hebrew	
Hungarian	hu, hungarian	
Italian	it, italian	
Japanese	ja, japanese	
Korean	kr, korean	
Latin	la, latin	
Lithuanian	lt, lithuanian	
Malayalam	ml, malayalam	
Norwegian	nb, bokmal, no, norwegian	nn, nynorsk
Persian	pe, fa, persian	
Polish	pl, polish	
Portuguese	pt, portuguese	pt-br
Romanian	ro, romanian	
Russian	ru, russian	
Slovak	sk, slovak	
Slovenian	sl, slovene, slovenian	
Spanish	es, sp, spanish	es-es, es-la
Swedish	sv, swedish	
Thai	th, thai	
Turkish	tr, turkish	tk, turkmen
Ukrainian	ua, ukrainian	
Vietnamese	vi, vietnamese	

10.5 ConT_EXt

10.5.2

- ConT_EXt , . \setuplanguage, :
- \setuplanguage[Language][Configuration]
- Language - , , Configuration , () . , 32 , , :
- date: . page 94.
 - lefthyphenmin, righthyphenmin: , . , \setuplanguage[en][lefthyphenmin=4] , 4 .
 - spacing: : «» «broad» «» «packed». () , , , . , «spacing=packed» .
 - leftquote, rightquote: () , , \quote , (.page 95).

- leftquotation, rightquotation: (), , \quotation , (. page 95)

10.5.3 ,

ConT_EXt (labels), , , \placetable, «Table xx» , \placefigure, «Figure xx».

labels , \mainlanguage (, \language),

\setuplabeltext[Language][Key=Label]

Key -- , ConT_EXt , Label -- , ConT_EXt. ,

\setuplabeltext[es][figure=Imagen~] , , , \placefigure «Figure x», «Imagen x».

, , . «~»; «[figure=Imagen{ }]» , ConT_EXt .

\setuplabeltext? ConT_EXt , . 2013 . () «chapter», «table», «figure», «appendix»... « ».

free libre software , ; , snooping ConT_EXt «lang-txt.lua», tex/texmf-context/tex/context/base/mkiv , , ; ConT_EXt , , , .

, , - , \labeltext. , , , , ConT_EXt \placetable, : «Just as shown in the \labeltext{table} on the next page..» , \mainlanguage -- , : «Just as shown in the on the next page.»

, \setuplabeltext, ; «chapter» «section». , ConT_EXt . , , , ,

\setuplabeltext[chapter=Chapter~] , «Chapter».

, , , , ConT_EXt , , , , . \setuplabeltext .



10.5.4

,

ConT_EXt , , .:

- \currentdate: , , «Day Month Year» « ».: «11 2020 ». (, , , 9/11), ((weekday), (, day, month, year).

, «dd» «day» , «mm» () , MyKeymonth «MONTH» . , «yy» , «year» «y» -- . - , .

\currentdate[weekday, dd, month]

when run on 9 September 2020 will write «Wednesday 9 September».

- \date: , , , \currentdate, . . : («d»), («m») («y»), , , () . , , , , 6 1957 ,

\date[d=6, m=7, y=1957][weekday]

and so we would find out that such an historical event happened on a Saturday.

- \month , .

.\translate

translate , , , . translate , (buffer . section 12.6):

\startbuffer
 \starttabulate[[*{4}{lw(.25\textwidth)}]]

```

\NC \translate[es=Su carta de fecha, en=Your letter dated]
\NC \translate[es=Su referencia, en=Your reference]
\NC \translate[es=Nuestra referencia, en=Our reference]
\NC \translate[es=Fecha, en=Date] \NC\NR
\stoptabulate
\stopbuffer

```

```

buffer , , , , , , . :

```

```

\language[es]
\getbuffer

```

```

Su carta de fecha      Su referencia      Nuestra referencia      Fecha

```

```

\language[en]
\getbuffer

```

```

Your letter dated      Your reference      Our reference      Date

```

C. \quote \quotation

```

, ( ), . , ConTEXt \quote \quotation, , ; \quote , \quotation .
, , ( . section 10.5.2); , , - ()), , , :

```

```

\setuplanguage[es][leftquotation=«, rightquotation=»].

```

```

; , , , \quote \quote , ConTEXt delimitedtext, \definedelimitedtext. , :

```

```

\definedelimitedtext
[CommasLevelA]
[left=«, right=»]

```

```

\definedelimitedtext
[CommasLevelB]
[left=", right="]

```

```

\definedelimitedtext
[CommasLevelC]
[left=`, right=']

```

```

, . , .

```

```

, , ( , !).

```

```

: 11.1 ; 11.1.1 ; 11.1.2 ; 11.2 ; 11.2.1 \setupwhitespace; 11.2.2
; 11.2.3 ; 11.2.4 \setupblank \defineblank; 11.2.5 ; 11.3 ConTEXt
, ; 11.3.1 '~'; 11.3.2 ; 11.3.3 ; 11.3.4 ; 11.4 ; 11.5 , ; 11.5.1
; 11.5.2 ; 11.6 ; 11.6.1 ; 11.6.2 ;

, Chapter 5,, , Chapter 6, , , , .. .

```

11.1

ConT_EXt. , :

1. .

2. \par \endgraf.

, , . (. section 3.7.1) (.section 13.3).

, . : , , , .

. ; , , , , , .

, , ConT_EXt.

11.1.1

, , , , \setupindenting, , :

- always: .

- yes: normal . , , , , .

- no, not, never, none: .

, , , . (1,5) "small", "medium" "big", , , .

() . (quadrat) , . em - em; (). , 12 12 12 .

ConT_EXt quad: quad, , , \qqquad, , . 11 22, 12 - 24 .

, , , \noindentation.

\setupindenting[yes, big]. , , , .

11.1.2

, () . , , .

ConT_EXt , , . "narrower":

\startnarrower[Options] ... \stopnarrower

Options :

- left: .

- Num*left: , normal Num (, 2*left).

- right: .

- Num*right: , normal Num (, tt 2*right).

- middle: . .

- Num*middle: , normal Num.


```

; , "narrower" . amount \setupnarrower, :
- left: .
- right: .
- middle: .
- before: , .
- after: , .

, \Definenarrower[Name][Configuration]
Name - , , Configuration , \setupnarrower.

```

11.2

11.2.1 \setupwhitespace

```

(section 4.2.2), ConTEXt , : . , . \setupwhitespace, :
- none: , .
- small, medium, big: , . , , .
- line, halfline, quarterline: , .
- DIMENSION: . , \setupwhitespace[5pt].
, \setupwhitespace. small, medium, big, line, halfline . :
- (. section 3.8.2), , , , ConTEXt , , .
- small, medium, big .. , , , , , ( ) .
, : \nowhitespace, , \whitespace, . , ConTEXt ;, , .
\nowhitespace . \whitespace, , ? \whitespace , . , .

```



11.2.2

```

, , , , \setupwhitespace, ConTEXt , , "Packed",
\startpacked[Space] ... \stoppacked
Space - , , . , .

```

11.2.3

```

, \blank. \blank , \setupwhitespace. , , : , . ,
\blank[3*medium] . . , \blank [2*big,medium] .
\blank , , , ; \blank , ( , ). \blank , . , "force" . , ,
, , ( , ) , \chapter, :
\setuphead
[chapter]
[
page=yes,
before={\blank[4cm, force]},
after={\blank[3*medium]}
]
, , . "force" .

```

11.2.4 `\setupblank` `\defineblank`

```

, \blank, , \blank [big]. \setupblank,,, \setupblank[0.5cm] \setupblank[medium].
\setupblank .

\setupwhitespace, , \blank, , , . "fixed", ("flexible")., ,
\setupblank [fixed, line], - \setupblank[flexible, default].

\defineblank . :

\defineblank[Name] [Configuration]

, \blank[ConfigurationName].

```

11.2.5

```

TEX, , - \vskip. , TEX ConTEXt , ConTEXt. \godown, :
\godown[]

Dimension , , \godown [5cm] 5 ; , \godown . \godown , , ,
‘\_ \godown [3cm]’1 , , , .

, \blank . , \blank [3cm] \godown[3cm] . , , \blank , , , . ,
\godown .

TEX, ConTEXt, - \vfill. . pushes , . , , , \vfill. \vfill , , , ,
. , , , :

\vfill
Line at the bottom
\page[yes]

, , \vfill . , , , :

\page[yes]
\ \vfill
Centre line
\vfill
\page[yes]

.

```

11.3 ConT_EXt ,

```

-- . , 15 , , ConTEXt , . .

, , , , ConTEXt. , , , . , . ( , , , ). ConTEXt, ,
, , , . , , ; ConTEXt. , , , , ; .

ConTEXt badness . . , , ConTEXt ( ). , , , . , , .

```

11.3.1 ‘~’

```

, , . , , , ‘~’, TEX tie, .

:

```

¹ , ‘_’ , .

```

- , , U~S.
- , , Dr~Anne Ruben or p.~45.
- , , Elizabeth~II, 45~volumes.
- , , 73~km, $~53; however, 35'.
- , , twenty~per~cent.
- , , 5~357~891.      thin space, ConTEXt \, , , 5\,357\,891.
- .:

```

There are sectors such as entertainment, communications media,
commerce,~etc.

Knuth, (T_EX), :

```

- , .
- , , , Chapter~12.
- , , Donald~E. Knuth, A.~Einstein.
- , , dimension~$d$, width~$w$.
- , , {1,~2, \dots,~$n$}.
- , , from 0 to~1.
- , , equals~a~$n$.
- , , : (1)~green, (2)~red, (3)~blue.

? , , , , , , - - ( ), . , ( -): , , , , .

```

11.3.2

```

, , , , ConTEXt ; , , , , \mainlanguage .

, ConTEXt . , (, ConTEXt , ); , , ConTEXt " "? " ", " "
(..). , ConTEXt " " . man-slaughter - (), mans-laughter ().

, , , , , \-., "unionized" -, "union\ised"; "manslaughter",
"man\slaughter".

, , \hyphenation: , , ( ) , , .:

\hyphenation{union-ised, man-slaughter}

, , , , \hbox, , \unhyphenated, , . \hyphenation , \hbox
\unhyphenated , , \hyphenation , ; \hbox \unhyphenated, , .

TEX \pretolerance \tolerance. , . 100, , , 10 000, ConTEXt , ,
, de facto, , , \pretolerance -1, ConTEXt .

\pretolerance, .:

\pretolerance=10000

"lesshyphenation" "morehyphenation" \setupalign. . section 11.6.1.

```

11.3.3

```

ConTEXt , , , , , , . , , ( ) , , , \break , ,
, .

ConTEXt . , . \setuptolerance, , ConTEXt "horizontal tolerance" (
) quotationvertical tolerance . section 11.6.2.

( ) "verystrict". , : "strict", "tolerant", "verytolerant" "stretch". , ,

\setuptolerance[horizontal, verytolerant]

```

11.3.4

, `\break, \crf` `\.`, `\break,` , , , , , . , `\break` () ().

<p>On the corner of the old quarter I saw him <code>\emph{swagger}</code> along like the <code>\break</code> tough guys do when they walk, hands always in their overcoat pockets, so no one can know which of them carries the dagger.</p>	<p>On the corner of the old quarter I saw him swagger along like the tough guys do when they walk, hands always in their overcoat pockets, so no one can know which of them carries the dagger.</p>
---	---

, `\crf`, , , :

On the corner of the old quarter I saw him `\emph{swagger}` along like the `\crf` tough guys do when they walk, hands always in their overcoat pockets, so no one can know which of them carries the dagger.

On the corner of the old quarter I saw him swagger along like the tough guys do when they walk, hands always in their overcoat pockets, so no one can know which of them carries the dagger.

`normal,` , `\crf;` :

- `\` , , .
- `\crf` , , .
- . , , , , , :
- , `ConTEXt` , . (, , boxes verbatim [[section 10.2.3](#)]), `\break` , .
- , , , , , , --, --; , , , -- , , .. `\crf` .
- . lines, [section 11.5.1](#).

11.4

- , , . `ConTEXt` , , , `\setupbodyfont \switchtobodyfont`.
- `\setupinterlinespace,` :
- `\setupinterlinespace` [`..Interline space..`], Interline space , :
 - * , (15pt) , (1,2). “ ” `ConTEXt` .
 - * , “small”, “medium” “big”, , , `ConTEXt` .
- `\setupinterlinespace` [`...=...]`. , `ConTEXt` . , `ConTEXt` . , ; , : , . `\setupinterlinespace` , , , (, ,), : line, height, depth, minheight, mindepth, distance, top, bottom, stretch shrink.
- `\setupinterlinespace` [Name]. , `\defineinterlinespace`.

`\defineinterlinespace`[Name] [Configuration]

, - \setupinterlinespace[Name]. , \setupinterlinespace[reset].

11.5 ,

11.5.1

(. [section 4.2.2](#)), ConT_EXt , , , . , , , . ConT_EXt “lines”, :
\startlines[Options] ... \stoplines

, , :
- space: : «» “on”, , .
- before: .
- after: .
- inbetween: .
- indenting: , , (. [section 11.1.1](#)).
- align: (. [section 11.6](#)).
- style: .
- color: .
,,

```
\startlines
One-one was a race horse.
Two-two was one too.
One-one won one race.
Two-two won one too.
\stoplines
```

```
One-one was a race horse.
Two-two was one too.
One-one won one race.
Two-two won one too.
```

\setuplines , ConT_EXt, . \definelines, :
\definelines[Name] [Configuration]
, , , , , :
\startlines[Name] ... \stoplines

11.5.2

, , , , , , , .. ConT_EXt `linenumbering`,
\startlinenumbering[Options] ... \stoplinenumbering
:
- continue: , , , (“continue=no”,). , , , “continue=yes”.
- start: , , , ‘1’ .
- step: , , , , , , , 5 (5, 10, 15 ...).
, , lnumbering \setuplinenumbering. :

- conversion: . [page 62](#) .
- style: (), (, ...).
- color: , .
- location: . : text, begin, end, default, left, right, inner, outer, inleft, inright, margin, inmargin.
- distance: .
- align: . : inner, outer, flushleft, flushright, left, right, middle or auto.
- command: , .
- width: , .
- left, right, margin:

```

\defineline numbering, :
\defineline numbering[Name] [Configuration]
, ,
\startlinenumbering[Name] ... \stoplinenumbering

```

11.6

```

, , \setupalign. , .

```

11.6.1

- , : .¹ :
1. : , a little pushed , , . right alignment, - left alignment.
`ConTeXt` .
, ; , . , `ConTeXt` , , , ., `flushright` , `flushleft` - . `flushright`
`flushleft` `\setupalign` right left. : . left “left”, right “right”, `\setupalign[left]`
, `\setupalign[right]` . , , `ConTeXt` wiki: ‘`ConTeXt` `flushleft` `flushright`.
, , ‘ragged left’ ‘ragged right’. , `ConTeXt`, ‘ragged right’ ‘ragged left’,
‘flush left’ ‘flush right’. , , , , .’
, , . `flushinner` (inner) `flushouter` (outer) .
 2. . . `\setupalign`, -- middle.
 3. , , , , . `ConTeXt` , `\setupalign` . , , `\setupalign[reset]`.
`\setupalign`, (right, `flushright`, left, `flushleft`, inner, `flushinner`, outer, `flushouter`
middle), `broad` (), .
`\setupalign`, , , , , , ; , ,
`\setupalign` `morehyphenation`, `ConTeXt` , `lesshyphenation`,
. `\setupalign[horizontal, morehyphenation]` , . , `\setupalign[horizon-`
`tal, lesshyphenation]` , .

¹ , `ConTeXt` .

```

\setupalign . , :
- "alignment", . :
\startalignment[Options] ... \stopalignment
Options \setupalign.
- \leftaligned, \midaligned \rightaligned , ; , ( , ) , \wordright. , .
, , "right" "left" \setupalign , , , texleftaligned \rightaligned, ,
: left right .

```

11.6.2

```

, , : exact , , ? ("height"), , ; ("bottom") ("line"). --
"bottom".

```

```

ConTEXt , () \setuptolerance, , , ConTEXt, . , : verystRICT,
strict, tolerant and verytolerant. -- \setuptolerance [vertical, strict].

```

(widows and orphans)

```

, , . , , . . , , , widowed line; , , , orphaned line.

```

```

ConTEXt , , . , ConTEXt: \widowpenalty , \clubpenalty . , :

```

```

\widowpenalty=10000

```

```

\clubpenalty=10000

```

```

, ConTEXt , , . , . 10 000, , ; , , 150, , , .

```

```

: 12.1 ; 12.1.1 ConTEXt ; 12.1.2 ; 12.1.3 ; 12.1.4 ; 12.1.5 ;
12.1.6 ; 12.2 ; 12.2.1 \startcolumns; 12.2.2 ; 12.3 ; 12.3.1 ; A
; B ; 12.3.2 ; 12.3.3 ; 12.3.4 ; 12.3.5 \items; 12.3.6 ; 12.4
; 12.4.1 ; 12.4.2 ; 12.5 ; 12.5.1 ; 12.5.2 , ; 12.5.3 ; 12.6 , ;

```

12.1

- “ , , , , , ”[Libro de Estilo de la Lengua española (Spanish Language Style Guide), p. 195]. . . . (); (), (). : , , .. , , . ConT_EXt -- . .

, , :

- Mark anchor : , , . anchor, , , anchor : , , .

- ID : , , . , , . anchor.

, , reference mark, id. : , id, (reference mark).

- Text or , , , .

- Label , , , .

12.1.1 ConT_EXt

ConT_EXt . , , . :

- : , , footnotes. mark id , , , . \footnote.

- Endnotes: , \endnote, , ; , (\placenames).

- Margin notes: , , . (), - \inmargin \margintext.

- Line notes: , , , , \startlinenumbering ... \stoplinenumbering (. section 11.5.2). , , . \lnenote, \setuplinenote. mark , , (ID).

:

- (section 5.7).

- (), , , , .

, () () ConT_EXt, . . .

12.1.2

, , (0, \Definenote(. section 12.1.4).

, , :

```

\footnote[Label]{Text}
\endnote[Label]{Text}

```

- Label , , .

- Text . , , , .

, , . , , , . , .
 Label , \note . ID , , . , :

Humpty Dumpty\footnote[humpty]{Probably
 the
 best-known English nursery rhyme character}
 sat on a wall, Humpty Dumpty\note[humpty]
 had a great fall.\\
 All the king's horses and
 all the king's men Couldn't put
 Humpty\note[humpty] together again

Humpty Dumpty¹ sat on a wall,
 Humpty Dumpty¹ had a great fall.
 All the king's horses and all the king's men
 Couldn't put Humpty¹ together again

¹Probably the best-known English nursery rhyme character

\footnote \endnote - , :
 \footnote , , , (,) . ConTeXt , , .
 \footnote , . , , columns. , , , \footnote \footnotetext
 \note, . , , . \note , , , \note [MyLabel] , , ,
 \footnotetext[MyLabel]{Note text}.
 \footnotetext \note - . :

This%
 \footnote{or this\note[noteB], if you prefer.}%
 \footnotetext[noteB]
 {or possibly even this one\note[noteC].}
 \footnotetext[noteC]{could be something
 entirely different.}
 is a sentence with nested notes.

This² is a sentence with nested notes.

²or this³, if you prefer.

³or possibly even this⁴.

⁴could be something entirely different.

\endnote , . (\placenotes[endnote]), , , all ().

12.1.3

\startlocalfootnotes , local , , , \placelocalfootnotes, .

12.1.4

\Definenote. , , , .

\Definenote :

\definote[Name][Model][Configuration]

- Name , .

- Model , . footnote endnote; , , \placenotes[endnote],
 \placenotes[Name] (,).

, , , , , .

- Configuration - , : , , , .

```

ConTeXt (. section 3.6) , , , \setupnote. , , : \setupnote
\setupnotation. , , . , .
, 'BlueNote', , :
\definernote [BlueNote] [footnote]
\setupnotation
[BlueNote]
[color=blue, style=bf]
, , BlueNote , , . \BlueNote, \footnote:
\BlueNote[Label]{Text}

```

12.1.5

```

( , , \Definenote, , \lnote), : \setupnote \setupnotation1. :
\setupnote[NoteType][Configuration]
\setupnotation[NoteType][Configuration]
NoteType , (footnote, endnote , ), configuration .
, , ; , , . - , , , 2 , , -, , , \setupnotation , ,
\setupnote , , .
, , , , :
- ID :
. :
* : start \setupnotation. , .
* , numberconversion \setupnotation. :
  ▷ A : n, N numbers.
  ▷ : I, R, Romannumerals, i, r, romannumerals. - , - .
  ▷ : A, Character, Characters, a, character, characters , , ( ) ().
  ▷ . , , , , '3' 'three'. . Words , words .
  ▷ . : : set 0, set 1, set 2 set 3. page 63 , .
* , : way \setupnotation. bytext, . bychapter, bysection, bysubsection
  .. , , byblock, , (. section 7.6). bypage .
- :
* : number \setupnotation.

```

¹ \setupnote 35 direct 45 ,
 \setupframed; \setupnotation 45 23, \setupcounter. , , , ; , ,
 ... , , , ; , , , , , , , , :

- \setupnotes \setupnotations: , , . , , .
- \setupfootnotes \setupendnotes: , , , , (numberconversion),
 \setupfootnotes, , ... , , , , , ,
 (), , , , , , .

² ConTeXt wiki, (), , , \setupnotation \setupnote , (?). , , , () width
 \setupnote, \setupnotation .

* : alternative `\setupnotation:` : left, inleft, leftmargin, right, inright, rightmargin, inmargin, margin, innermargin, outermargin, serried, hanging, top, command.

* : numbercommand `\setupnotation.`

* : textcommand `\setupnote.`

numbercommand and textcommand , . . , (`\bf`, `\it` ..) , , .

* (): distance width `\setupnotation.` () .

* , : interaction `\setupnote.` yes , no .

- .

:

* : location `\setupnote.`

, , (location=page), , `\placenames[endnote]` (location=text) , , , location=text, , , , `\placenames[footnote]` `\placefootnotes.` , , , .

* : , , paragraph `\setupnote` “yes”.

* , : style `\setupnotation.`

* : bodyfont `\setupnote.`

, . , ConTeXt , , , .

* : margin `\setupnotation.`

* : width `\setupnote.`

* : n `\setupnote` , . ‘n’ .

- : :

* rule `\setupnote` . yes, on, no off. , .

* before `\setupnotation:` , . , ..

12.1.6

`\notesenabledfalse` `\notesenabledtrue` ConTeXt, . , , . , , , .

12.2

-- , :

a. .

b. , , , , .

c. , .

, . ; (. section 13.1) (section 13.3), .

, ConTeXt . :

- : () (,). , , , , , .
- : ConTeXt, () 20 40 .
- ,
- (subsection B section 5.3.4).
- , , , , , .

12.2.1 \startcolumns

- , , , :
- \startcolumns[Configuration] ... \stopcolumns
- Configuration . , , , ,
- \setupcolumns[Configuration]
- . , , , :
- , :
- * n: . , , .
- * nleft, nright: (subsection A of section 5.3.4), () () .
- * distance: .
- * separator: , . space -- () rule -- , . , , , , :
 - ▷ rulecolor: .
 - ▷ rulethickness: .
- * maxwidth: + .
- , :
- * balance: ConTeXt , , . “no”, , .
- * direction: , . (), reverse .
- , :
- * tolerance: , , , , , ConTeXt (section 11.3), . (section 11.3.3), .
- * align: . : right, flushright, left, flushleft, inner, flushinner, outer, flushouter, middle or broad. section 11.6.1.
- * color: , .

12.2.2

- . (,), , , . , , , , , ; , , , , , .
- ; , , ConTeXt, \defineparagraphs \setupparagraphs, , , , , .
- , . « », , , , ConTeXt : “paragraphs”.
- \defineparagraphs, :

```

\defineparagraphs[Name][Configuration]
Name -- , , Configuration -- , ,
\setupparagraphs[Name][Column][Configuration]
Name, , Column - , , Configuration , .
:
\defineparagraphs
[MurciaFacts]
[n=3, before={\blank},after={\blank}]
\setupparagraphs
[MurciaFacts][1]
[width=.1\textwidth, style=bold]
\setupparagraphs
[MurciaFacts][2]
[width=.4\textwidth]
MurciaFacts, , 10 , 40 . , , 50%.
, , Murcia:
\startMurciaFacts
825
\MurciaFacts
City of Murcia founded.
\MurciaFacts
The origins of the city of Murcia are uncertain, but there is evidence
that it was ordered to be founded under the name of Madina (or Medina)
Mursiya in the year 825 by the Emir of al-Àndalus Abderramán II,
probably built over a much earlier settlement.
\stopMurciaFacts

825 City of Murcia founded. The origins of the city of Murcia are
uncertain, but there is evidence that it
was ordered to be founded under the
name of Madina (or Medina) Mursiya
in the year 825 by the Emir of al-Ànda-
lus Abderramán II, probably built over
a much earlier settlement.

, (\startMurciaFacts), rows.
:
- , ,
\defineparagraphs[MaryPoppins], , \startMaryPoppins \stopMaryPoppins.
- \MaryPoppins, , , .
(\setupparagraphs), , , , , \setupparagraphs [Na-
me] [Configuration] , , \setupparagraphs [Name] [NumColumn] [Configuration]
.

```

- n: Number
 - before: Command
 - after: Command
 - width: Dimension
 - distance: Dimension
 - align: Derived from `\setupalign`
 - inner: Command
 - rule: on off
 - rulethickness: Dimension
 - sion
 - rulecolor: Rule colour
 - style: Style Command
 - color: Colour
- columns itemize, .

12.3

, . , , . , , . , ConTeXt , , , itemize, , .

(), , , , «». , . () , , ; , 1. . HTML , , , , , , ; , , .

ConTeXt , , ; , , item , .

, -- 4, , 2013, . , , (15). , , , , ; ConTeXt .

, , , , : , . , , , ; , , .

ConTeXt - `\itemize`, :

`\startitemize[Options][Configuration] ... \stopitemize`

. , ConTeXt ; , , , .

12.3.1

A.

, itemize, , :

• . • .

- . • .

* . □ .

▷ . ✓ .

◦ .

, , , . , `\startitemize[4]` , ▷ , .

`\definesymbol:`

`\definesymbol[Level]{Symbol associated with the level}`

:

`\definesymbol[1][\diamond]`

◇ . , ,

`\definesymbol[10][\copyright]`

: copyright 10.

B.

, itemize ,

1 — n — 1, 2, 3, 4, ...

, , , , .

m	1, 2, 3, 4, ...	A	A, B, C, D, ...	R	I, II, III, IV, ...
g	$\alpha, \beta, \gamma, \delta, \dots$	KA	A, B, C, D, ...	KR	I, II, III, IV, ...
G	A, B, Γ , Δ , ...				
a	a, b, c, d, ...	r	i, ii, iii, iv, ...		

n m , , : **n** , , **m** , , .

, **m**, , . . .

12.3.2

, , `\startitemize`, `\item`, , Mark IV: `\startitem ... \stopitem`. , :

<code>\startitemize[a, packed]</code>	a.
<code>\startitem \stopitem</code>	b.
<code>\startitem \stopitem</code>	c.
<code>\startitem \stopitem</code>	
<code>\stopitemize</code>	

:

<code>\startitemize[a, packed]</code>	a.
<code>\item</code>	b.
<code>\item</code>	c.
<code>\item</code>	
<code>\stopitemize</code>	

`\item \startitem` . , :

`\head \item`, .

, , , `title` . `\head \item` , `ConTeXt ()` .

`\sym The \sym{Text}` , , `\sym`, , . , , `\sym \item`.

`\sub` , (), , , , '+'. , , , .

`\mar` , (). , .

, , , , . `\ran (range) \its`, `items.` (), , , `x (4 , , items).` , , :

After reading the following introduction, answer the following questions:

```
\startitemize[5, packed][width=8em, distance=2em, items=5]
\ran{No \hss Yes}
\its I will never use \ConTeXt, it is too difficult.
\its I will only use it for writing big books.
\its I will always use it.
\its I like it so much I will call my next child \quotation{Hans}, as a tribute to Hans
Hagen.
\stopitemize
```

After reading this introduction, answer the following questions:

No	Yes	
<input type="radio"/>	<input type="radio"/>	I will never use ConT _E Xt, it is too difficult.
<input type="radio"/>	<input type="radio"/>	I will only use it for writing big books.
<input type="radio"/>	<input type="radio"/>	I will always use it.
<input type="radio"/>	<input type="radio"/>	I like it so much I will call my next child “Hans”, as a tribute to Hans Hagen.

12.3.3

- , “itemize” . , . ; “itemize” :
- columns: , . , : , , , , , . Columns, , .
- intro: .
- continue: () . continue , , , , , .
- packed: . items , .
- nowwhite: , packed, : , .
- broad: . , broad, , \startitemize[2*broad].
- serried: .
- intext: .
- text: .
- repeat: , . , : 1, 2, 3, 4; : 1.1, 1.2, 1.3 .. , .
- margin, inmargin: , (atmargin). margin inmargin .

12.3.4

- , , \startitemize .
- before, after: , itemize .
- inbetween: , items.
- beforehead, afterhead: , \head command.
- left, right: , . , , :
\startitemize[a][left=(, right=)]
- stopper: , . .
- width, maxwidth: , , .
- factor: .
- distance: .
- leftmargin, rightmargin, margin: , (leftmargin) (rightmargin) .
- start: , .
- symalign, itemalign, align: . , \setupalign. symalign ; itemalign align .
- indenting: .. section 11.1.1.
- indentnext: , . yes, no auto.
- items: , input \its, , .
- style, color; headstyle, headcolor; marstyle, marcolor; symstyle, symcolor:
\item, \head, \mar \sym.

12.3.5 `\items`

`itemize` , , `\items`, :

`\items[Configuration]{Item 1, Item 2, ..., item n}`

, , .:

Graphics files can have, among other things, the following extensions:

`\items{png, jpg, tiff, bmp}`

Graphics files can have, among other things, the following extensions:

- png
- jpg
- tiff
- bmp

, , `itemize`, :

- symbol: . , `itemize`, - .

- n: , .

12.3.6

, , . , , , , , - .

:

- `itemize \items` .

- .: , `ListAlpha`, , `(ListRoman)` ..

`\setupitemize \setupitems. \defineitemgroup \defineitems. , itemize, -, items.`

12.4

- , , , .

12.4.1

`title` . :

`\definedescription[Name] [Configuration]`

Name -- , , Configuration , . .:

`\definedescription[Concept]`

:

`\Concept{Title}`

`\startConcept {Title} ... \stopConcept`

, , , . . , , , .

:

`\definedescription`

`[Concept]`

[alternative=left, width=1cm, headstyle=bold]

\Concept{Contextualise}

Place something in a certain context, or typeset a text with the typesetting system called \ConTeXt. The ability to correctly contextualise in any situation is considered a sign of intelligence and good sense.

:

Contextualise Place something in a certain context, or typeset a text with the typesetting system called ConT_EXt. The ability to correctly contextualise in any situation is considered a sign of intelligence and good sense.

ConT_EXt, Configuration \setupdescription:

\setupdescription[Name] [Configuration]

Name , Configuration , . :

- alternative: . : left, right, inmargin, inleft, inright, margin, leftmargin, rightmargin, innermargin, outermargin, serried, hanging , , , , .
- width: , . alternative , .
- distance: .
- headstyle, headcolor, headcommand: , : Style (headstyle) color (headcolor). headcommand , . : headcommand=\WORD , .
- style, color: .

12.4.2

, . , , text. , , :

- .

- .

, , , , .

\defineenumeration[Name] [Configuration]

Name , Configuration , .

, :

\defineenumeration

[Exercise]

[alternative=top, before=\blank, after=\blank, between=\blank]

Exercise, , , :

\Exercise

\startExercise

. , :

\subExercise

\startsubExercise

\stopsubExercise

```

\subsubExercise
\startsubsubExercise
\stopsubsubExercise
\subsubsubExercise
\startsubsubsubExercise
\stopsubsubsubExercise

:

- \setEnumerationName: .
- \resetEnumerationname: .
- \nextEnumerationName: .

\setupenumeration, :

\setupenumeration[Name] [Configuration].

... , \setupenumeration [subExercise] [Configuration] "Exercise".

, \setupenumeration, , \setupdescription.

```

12.5

```

ConTEXt, TEX , . : , ConTEXt ( TEX ) , . , , , , ConTEXt
. ConTEXt MetaPost, TIKZ ( ConTEXt ), .

, , .

```

12.5.1

```

- \hairline, , .

, , \hairline, . , , \thinrule. . , , \hairline, \thinrule , \hfill
(.section 10.3.3), ( \hfill), .

```

```

On the left\thinrule\\
\thinrule On the right\\
On both\thinrule sides\\
\thinrule centred\thinrule

```

On the left	_____
	_____On the right
On both	_____sides
	_____centred

```

\thinrules , \thinrules[n=2] , , \thinrules, , , , \setupthinrules.
(rulethickness), (color), (background), (interlinespace) ..

```

```

. setup-en.pdf (. section 3.6). ( ), , , . : , , rulethickness.
height depth.

```

```

\hl \vl. , --. , . \hl ems ( ), \vl .

, \hl[3] 3 ems, \vl[3] , . , . , 1.

\fillinline -- . , ( \setupfillinlines width) .

, , , , , . :

\fillinline[width=6cm] Name

```



Name

, , , , - . `\fillinline` .
 , (margin), (distance), (rulethickness) (color). `\fillinline` `\fillinrules`, ("n").
`\fillinrules[Configuration] {Text} {Text}`

.

12.5.2 ,

, , , , . , , ConTeXt :
 - .
 - (- underlining), (- overlining) (- strikethrough).
 , `\textrule`. , , , , (). :

`\textrule{Example text}`

— Example text —



, `\textrule` : top, middle bottom. , .
`\textrule`, `\starttextrule`, , , . :
`\starttextrule[Configuration]{Text on the line} ... \stoptextrule`
`\textrule`, `starttextrule` `\setuptextrule`.
 , , :

`\underbar{Text}`
`\underbars{Text}`
`\overbar{Text}`
`\overbars{Text}`
`\overstrike{Text}`
`\overstrikes{Text}`

, () . , , , , .
 , , , , `\underbar` , , .
 , `\underbar` , , , `\underbar` , .

12.5.3

, :
 - `\framed` or `\inframed` .
 - `\startframedtext` .
`\framed` `\inframed` , . `\frame` , , , . `\inframed` . :

Here there are `\framed{two}` good
`\inframed{frames}`.

Here there are two good frames.

, `\setupframed`, `\startframedtext` - `\setupframedtext`. (height, width, depth), (framecorner), rectangular (round), (framecolor), (framethickness), (align), (foregroundcolor), (background backgroundcolor) ..

`\startframedtext` : frame=off, - (,). , , , framedtext , , .

`\defineframed` `\defineframedtext`.

12.6 ,

`ConTEXt` , . :

- `buffer` `Buffers` - , . `buffer` - `\startbuffer[BufferName]` ... `\stopbuffer` `\getbuffer[BufferName]`.
 - `chemical`
 - . `TEX` , , , `ConTEXt` , , .
 - `combination`
 - . .
 - `formula` , .
 - `hiding` , , , . . , , , , , `\starthiding` `\stophiding` .
 - `legend` `TEX` , . . `\startlegend`, .
 - `linecorrection` `ConTEXt` , -, - . , `\framed`. , .
 - `mode` , , . `modes` , , . `\startnotmode`.
 - `opposite` , .
 - `quotation` `narrower`, . , , , . , , .
 - `standardmakeup` , , , ..
- (,), :
1. `ConTEXt`. ; - .
 2. , .
 3. `ConTEXt` (. [section 3.6](#)) , , .

```

: 13.1 ?; 13.2 ; 13.2.1 ; 13.2.2 \placefigure; 13.2.3 , ; 13.2.4
; A , ; B ; 13.3 ; 13.3.1 ; 13.3.2 tabulate; 13.4 , ; 13.4.1
; 13.4.2 ; 13.4.3 ; 13.4.4 ; 13.5 ;

```

0., , , , , : . , , : , , . : , , ; , , , , .

13.1 ?

```

, : , , , . , , , , , ..
, , , , , , , , , , , .
; floating -- . « » "floating object" -- , , . , ConTeXt , ; .
, , . , . , , .
, ; , , , , , , , , , - , : « », floats after , , :
before , , , .
( ), " " "1.3", ConTeXt, , (. section 9.2). , ( , , , ..). , , ,
(section 8.2).
ConTeXt , . , : . , , .

```

13.2

(section 1.5), ConTeXt MetaPost , , . ConTeXt ¹, TiKZ. ² (, ,
). , ConTeXt.

13.2.1

```

( ), \externalfigure,
\externalfigure[Name] [Configuration]

- Name , , - , , , \useexternalfigure, \externalfigure, , .
- Configuration -- , , . section 13.2.4.

: pdf, mps, jpg, png, jp2, jbig, jbig2, jb2, svg, eps, gif tif. ConTeXt , (svg, eps, gif
tif) , , , , ConTeXt .

, \externalfigure, . : QuickTime ( .mov), Flash Video ( .flv) MPeg 4 ( .mp4).
PDF , PDF . , .

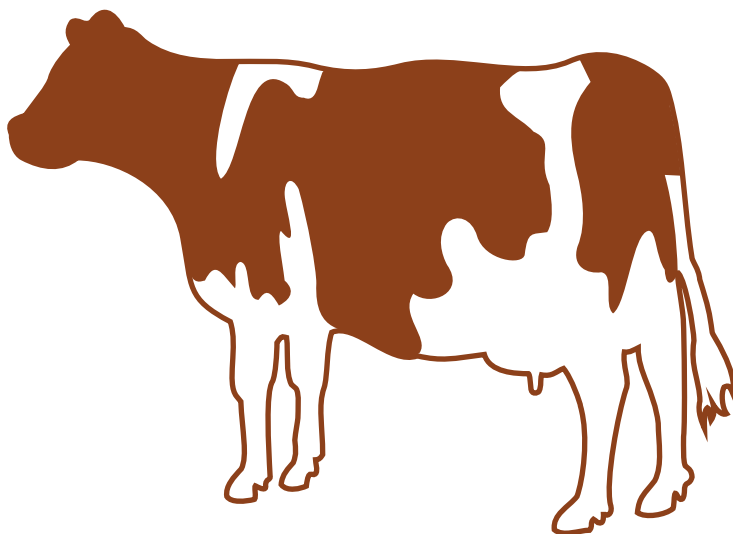
: ConTeXt . , PDF, , - MPS (, MetaPost). : jpeg, png, jpeg 2000,
jbig jbig2.

, , ConTeXt , method.

```

¹ ConTeXt extension modules, , .

² , TEX. " " "TiKZ ist keinen Zeichenprogramm", : "TiKZ ". - . MetaPost (,
) , , TiKZ - .



ConT_EXt , . . . , directory \setupexternalfigures, . . . , location.
 ,, "img", :

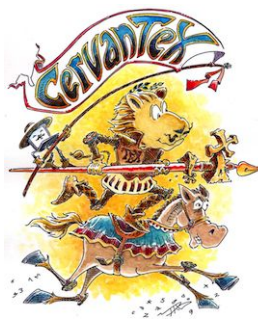
\setupexternalfigures
 [directory=img, location=global]

directory \setupexternalfigures , ; ., "directory={img, ~/imágenes}".

directory '/' ; Microsoft Windows, '\'. .

\externalfigure , . . . , CervanTeX . T_EX, -: ¹

\externalfigure
 [http://www.cervantex.es/files/
 cervantex/cervanTeXcolor-small.jpg]



, . . . , LuaTeX. . . , 1. . . ConT_EXt wiki.

ConT_EXt , . . . , . (ConT_EXt) , . . . section 13.4.3.

13.2.2 \placefigure

. \placefigure. ConT_EXt:

¹ - , . . . , - - , , .

- , , , , , .

- , .

- , , , , .

- (), .

- , .

- , , .¹

:

`\placefigure[Options][Label] {Title} {Image}`

:

- Options , , . , (section 13.4.1). here . `ConTeXt`, , , , .

- Label - , (section 9.2).

- Title , .

- Image , .

:

`\placefigure`

`[here]`

`[fig:texknuth]`

`{\TeX\ logo and photo of {\sc Knuth}}`

`{\externalfigure[https://i.ytimg.com/vi/8c5Rrfabr9w/maxresdefault.jpg]}`

name:
https://i.ytimg.com/vi/8c5Rrfabr9w/maxresdefault.jpg
file:
https://i.ytimg.com/vi/8c5Rrfabr9w/maxresdefault.jpg
13.1 `\TeX` logo
and photo of Knuth

, (, ,), , , `\externalfigure`. , . external , . , :

- , " ", `ConTeXt` , , , , `\placelist [figure]` (section 8.2), ,

`\placelistoffigures` or `\completelistoffigures`.

- -, , `\placefigure`, , , (section 9.2).

- , , , () , `ConTeXt` .

`\placefigure`, , . , . , `\placefigure`, , , ; , `ConTeXt`, , , ,
, . . . :

Test text

13.2 Using `\placefigure` for text transformations

which is achieved as follows:

¹ , , , force split, .


```
\placefigure
[here, force]
[fig:testtext]
{Using \backslash placefigure for text transformations}
{\rotate[rotation=180]{\framed{\tfd Test text}}}
```

13.2.3 ,

, , , (,).). \placefigure , , (. [section 13.4.1](#)), ConT_EXt
., , , figuretext, :

```
\startfiguretext
[Options]
[Label]
{Title}
{Image}
```

... Text

```
\stopfiguretext
```

, \placefigure, . , ;,, "left" , , -, "left, bottom" , , .

, , -- , .

13.2.4

A. ,

```
\externalfigure . :
```

- , ; . \setupeexternalfigures.

- , . \useexternalfigure, .

- , . \externalfigure.

, , :

. :

- , - width height ; , .

. :

```
width=.4\textwidth
```

, 40 % .

- : xscale ; yscale , scale . , , , 1000. : scale=1000 , scale=500 ,
scale=2000 .

, , , maxwidth maxheight, . , maxwidth=.2\textwidth , 20 % .

. , orientation, , , . .

, , , 90 (90, 180 270), \rotate. 45 orientation=45,
\rotate.

. , frame=on, (framecolor), (frameoffset), , (rulethickness) (framecorner),
(round) .

```
. , , \setupexternalfigures , , ( directory), , (location=global)
(location=local), (interaction) ..
```

B.

```
ConTEXt , \externalfigure. :
```

- Mirror image: `\mirror`.
- Clipping: `\clip`, (width), (height), (hoffset) (voffset). :

```
\clip
[width=2cm, height=1cm, hoffset=3mm, voffset=5mm]
{\externalfigure[logo.pdf]}
```

- Rotation.

```
, , -- \rotate. \externalfigure, , , , tt orientation, .
, box. , ( ), , :
```

```
\mirror{Test text}\\
\rotate[rotation=20] {Test text}
```

```
Test text
Test text
```

13.3

13.3.1

- , , , cells, . : () , () . - , [figure 13.3](#).

```
, , , , , .
, , - , , ( ), ConTEXt.
( , ), , , ConTEXt.
, , , , , .
```

```
ConTEXt ; tabulate,
TEX; , HTML, , , ; ,
XML , . "ConTEXt
Mark IV an excursion",
"ConTEXt Standalone".
```

- , , : , , , ,
- `\placetable` . :

- ConT_EXt , (), .

- , .

```
\placetable , \placefigure (.
section 13.2.2):
```

```
\placetable[Options][Label]
{Title} {table}
```

Table of 4 rows and 3 columns

			Row
Column			

13.3 Image of a simple table

[13.4.1](#) [13.4.2](#) , . , , . "split", , , ConT_EXt , .

, `\setuptables.`, `\placelistoftables` `\completelistoftables.` . section 8.2.2.

13.3.2 tabulate

- , `tabulate`, :

```
\starttabulate[Table column layout]
... % Table contents
...
...
\stoptabulate
```

, , () () . , , : , . , , .
 , , , , . , , 1 2. -- , , .

1. Columns delimiter: “|” . , “[|T|rB|]” , , “l” “T” (), , “r” “B”. , , , “[|l|l|l|]”.

2. : , , , -- , , , , , . `tabulate` , .

a. One line cells: , , , , (“l”, left), (“r”, right) (“c”, center).

, , , . “w(Width)”. , “[|rw(2cm)|c|c|]” , 2 , .
 , , , . , , .

b. , : “p” , , . “p”, . “p(Width)”, . , :

```
\starttabulate[|l|r|p|]
\starttabulate[|l|p(4cm)|]
\starttabulate[|r|p(.6\textwidth)|]
\starttabulate[|p|p|p|]
```

, , , , , . , ; , . , , .

, , , “p” .

3. , , : , (, ,) , , . “B” , “I” , “S” , “R” “T” .

4. ,

:

- : “m” “M” . .

`TEX`, `ConTEXt`, , . () `ConTEXt` . : `linear`, , (“m”),
`complete maths`, , . , , .

- : “in”, “jn” “kn” (“in”) (“jn”) (“kn”). “n” , , (em) . , , “[j2r]” , , 1 em.

- . `b{Text}` `a{Text}` , (“b”, before) (“a”, after) .

- . “B”, “I”, “S”, “R” “T” : , , sans serif, . “f \Command” , . , “[lf\sc]” .

- . , “h\Command” .

table 13.1 .


```

\NC \tex{NN}
\NC ( \tex{NC})
\NR
\NC \tex{TB}
\NC
\NR
\NC \tex{NB}
\NC , ,
\NR
\HL
\stoptabulate}

, ( ) . , ; . , , " \NC " . ( ) , \NR, ..
\HL , , . , , , !

, ConTEXt. , \tex, section 10.2.3.

```

13.4 ,

```

, , , \placefigure \placetable. ConTEXt \placechemical (
), \placegraphic ( ) \placeintermezzo , ConTEXt Intermezzo , , . , ,
\placefloat, :

\placefloat[Name] [Options] [Label] {Title} {Contents}

, \placefloat \placefigure \placetable, , \placefloat . , : \placefloat[TypeName]
\placeTypeName. : \placefloat[figure] \placefigure - , , \placefloat[table] - ,
\placetable.

\placefloat, , , , \placefigure \placetable, .

\placefloat:
- Name. . - (figure, table, chemical, intermezzo) , \definefloat (. section 13.5).
- Options. , ConTEXt . where, . .
- Label. .
- Title. , . . section 13.4.2.
- Contents. , , . \externalimage; -, ; intermezzi - ; ..

, . ( ) , . , :

\placefloat{}{}

```

undefined

13.4



: , ConT_EXt , , images. , .

13.4.1

Options `\placefigure`, `\placetable` `\placefloat` . . . , . . . :

- (top, bottom inleft, inright, inmargin, margin, leftmargin, rightmargin, leftedge, rightedge, innermargin, inneredge, outeredge, inner, outer). . . , [5.2](#) [5.3](#).
- , , , , . . . , left right.
- here . . . , . . . , force, :
- , : "page" ; "opposite" ; "leftpage" ; "rightpage" .
 , . . :
- none: .
- split: . . . , . . . ,

13.4.2

"none" `\placefloat`, . . . :

- . . . ; , , , " " " " , " 1". . . .
 , . . . , , , , "figure" "table", ; , , "figure" "Figura", "table" "Tabla".
`\setuplabeltext`, [section 10.5.3](#).
- . . . , 3 '3.1'.
- . `\placefloat`.
- `\setupcaptions` `\setupcaption[Object]` . . . , . . . :
- , number, way, prefixsegments numberconversion:
 - * number yes, no none , .
 - * way , (way=bytext), (way=bychapter) (way=bysection).
prefixsegments.
 - * prefixsegments , . , prefixsegments=chapter , prefixsegments=section .
 - * numberconversion . . . : . ("numbers"), lower case ("a", "characters"), upper case ("A", "Characters"), small caps "KA"), upper case Roman numerals ("I", "R", "Romannumerals"), lower case ("i", "r", "romannumerals" or small caps ("KR")).
- . . . , [section 7.4.4](#), . . . , . . . :
 - * , style, color, command.
 - * : headstyle, headcolor, headcommand, headseparator.
 - * : numbercommand.
 - * : textcommand.
- , . . . , [ConT_EXt wiki](#) , . . .

13.4.3

, ConT_EXt , `\startcombination`, :

`\startcombination[Ordering] ... \stopcombination`

Ordering , : , Ordering , . , , * . :

```
\startcombination[3*2]
{\externalfigure[test1]}
{\externalfigure[test2]}
{\externalfigure[test3]}
{\externalfigure[test4]}
{\externalfigure[test5]}
{\externalfigure[test6]}
\stopcombination
```

name: test1 file: test1 state: unknown	name: test3 file: test3 state: unknown	name: test5 file: test5 state: unknown
name: test2 file: test2 state: unknown	name: test4 file: test4 state: unknown	name: test6 file: test6 state: unknown

, , , ConT_EXt .

, , , \startcombination, .

, \startcombination , , \startframedtext, .. , \setupcombination, ,
 \definecombination.

13.4.4

, \placefloat . :

- . \setupfloat[].

- . \setupfloats.

, , \placefloat[figure] \placefigure, \setupfloat[figure] \setupfigures, \setupfloat[ta-
 ble] \setuptables.

, ConT_EXt (section 3.6).

13.5

\definefloat . :

\definefloat[Singular name] [Plural name] [Configuration]

Configuration , . \setupfloat[Name in the singular].

, , jungle ConT_EXt, , , jungle, , , .

, , ConT_EXt, , :

```
- , .
- list, , , .
-
- , , , ( TEX) .
, : , . ; , - .
ConTEXt: (\setupfloats) : \placefloat : ConTEXt :
1. , . define float, , , .
2. , : \setupfloat[Object].
3. (\placefloat) , : (\placefloat[Object]).
4. , , . ( ) , .
, ConTEXt , ConTEXt:
- .
- , .
- «», , .
- , , , , .
```

table 13.3 , , , :

\completelistof<PluralName>	\completelist[PluralName]	\completelistoffigures
\place<SingularName>	\placefloat[SingularName]	\placefigure
\placelistof<PluralName>	\placelist[PluralName]	\placelistoffigures
\setup<SingularName>	\setupfloat[SingularName]	\setupfigure

13.3 ,

```
, , , , table 13.3: \start<NameSingular>, \start<NameSingular>text
\startplace<NameSingular>.
, , , ; , , , ConTEXt, \definefloat:
\definefloat[chemical][chemicals]
\definefloat[figure][figures]
\definefloat[table][tables]
\definefloat[intermezzo][intermezzi]
\definefloat[graphic][graphics]
, , ConTEXt - , ; , . \placefigure \placetable. , placefigure, ,
\placetable, .
```


T_EX(TeX Live, teTeX, MikTeX, MacTeX ..) ConT_EXt. . ConT_EXt; ConT_EXt Mark II, Mark IV, ConT_EXt Mark IV.

; . , :

- Unix-type systems: Unix, GNU Linux, Mac OS, FreeBSD, OpenBSD, Solaris.
; , .
- Windows systems, : Windows 10 (,), Windows 8, Windows 7, Windows Vista, Windows XP, Windows NT ..

Microsoft Windows:

ConT_EXt, T_EX, ; . Windows - . , , , Windows , , Windows (),
, , , , , , Windows : "DOS window", "Command Prompt",
"cmd" .. Windows Windows, .

Windows 2004 , , . , ; .

1

"ConT_EXt Standalone"

ConT_EXt, "Standalone", "ConT_EXt Suite", ConT_EXt, , . , , , --- Standalone
--- , . ConT_EXt, . , , ConT_EXt Mark II (T_EX PdfLatex XeTeX) ConT_EXt
Mark IV (LuaTeX).

T_EX, . [section 1.4.1](#); T_EX ConT_EXt, , Mark II Mark IV, [section 1.5.1](#).

, , , "ConT_EXt Standalone" . , [ConT_EXt wiki](#), , [wikibooks](#). - - ,
()

1.1

"ConT_EXt Standalone" :

1. , ConT_EXt.
2. .
3. .
4. .

1:

ConT_EXt, , , . Windows . Unix . , , . , .

, Unix- -- "~/context/", Windows -- "C:\Programs\context".

2. .

script , :

- Unix- - "wget" "rsync":

wget <http://minimals.contextgarden.net/setup/first-setup.sh>
rsync rsync://minimals.contextgarden.net/setup/first-setup.sh

- Windows, , . -. :

<http://minimals.contextgarden.net/setup/context-setup-mswin.zip>
<http://minimals.contextgarden.net/setup/context-setup-win64.zip>

Windows ,

Step 3:

```
. Unix -- "first-setup.sh", bash sh. Windows "first-setup.bat" MS-DOS
.
:
- --context: , ConTEXt , ("--context=latest") ("--context=beta"). -- "beta".
- --engine: , Mark IV ("--engine=luatex", ) Mark II.
- --modules: ConTEXt, , . "--modules=all".
, , . , Mark IV «--engine=luatex» «--context=latest» , . 2020
first-setup.sh , , , «--context=latest» «--engine=luatex " .
Wikibook, , , ( ConTEXt): "--fonts=all" "goodies=all". ConTEXtgarden ,
. ( , Unix Windows):
- Unix: bash first-setup.sh --context=latest --modules=all --fonts=all --goodies=all
- Windows: first-setup.bat --context=latest --modules=all --fonts=all --goodies=all
, -, , .
```

Configuring a proxy

```
rsync ., -, rsync. -- RSYNC_PROXY (.bashrc ). , , proxyhost
proxyport . Unix "export", Windows - "set".:
export RSYNC_PROXY=username:password@proxyhost:proxyport
, , 873 TCP-. 22 ssh-, - - 873 ( nc).
export RSYNC_CONNECT_PROG='ssh tunnelhost nc %H 873'
'tunnelhost' -- , ., NC 873 TCP-.
"first-setup" "bin" "tex" .
```

4: (GNU Linux)

```
GNU Linux , . , ConTEXt , , . "tex/setuptex", :
export OSFONTDIR=~/.fonts:/usr/share/fonts:/usr/share/texmf/fonts/opentype/"
OSFONTDIR , ,
/usr/share/texmf/fonts/ , TEX ; OSFONTDIR, opentype, . -
, ConTEXt, , - , OSFONTDIR, . , , /usr/local/fonts /usr/share/fonts.
, , ConTEXt , . :
. ~/context/tex/setuptex
context --generate
context --make
- (). bash source. , , source, .
```

1.2 “ConT_EXt Standalone”

“ConT_EXt Standalone” T_EX, , , ; , , , ConT_EXt, , , “context” ,
 . “tex/setuptex” (Unix) “tex/setuptex.bat” (Windows). :

- Unix , “context”, :

```
source ~/context/tex/setuptex
. ~/context/tex/setuptex
```

(, , “context”, -- “~/context”).

- Windows, `tex\setuptex.bat` , ConT_EXt.

T_EX - , , :

- Unix- , (“.bashrc”).

shell, . bash (GNU Linux), .bashrc. sh ksh .profile, zsh
 .zshenv tcsh csh .cshrc. , , , .bashrc .bash_profile.

- Windows , cmd.exe, , :

```
C:\WINDOWS\System32\cmd.exe /k C:\Programs\context\tex\setuptex.bat
```

, , ConT_EXt, , , - , , ConT_EXt . , , . ConT_EXt , : LEd, Notepad
 ++, Scite, TeXnicCenter, TeXworks, vim .

1.3 “ConT_EXt Standalone”

Mark IV , “ConT_EXt Standalone” . , : “first-setup.sh” .

- “ConT_EXt Standalone”, “first-setup” “--context=date”, date - , , . , «--».

ConT_EXt [this link](#).

, , , , GNU Linux 4 , ‘Final Adjustments’.

2 LMTX

ConT_EXt Mark IV LuaT_EX, LuaMetaT_EX, LuaT_EX, , of “ConT_EXt
 Standalone”, LMTX, ConT_EXt. T_EX: LuaMetaT_EX. 2019 , 2020 ConT_EXt,
[ConT_EXt wiki](#).

LMTX , - . , Mark IV, , , LMTX (4 2020 .) \Caps. “ConT_EXt
 Standalone”.

2.1

:

- 1: , LMTX, , , , “context”, .

- 2: () zip- [ConT_EXt wiki](#), . :

* GNU/Linux

▷ X86 Processor

- 32 bit version.
- 64 bit version.

▷ ARM Processor

- 32 bit version.

- 64 bit version.
 - * Microsoft Windows
 - ▷ 32 bit version
 - ▷ 64 bit version
 - * Mac OS, versión de 64 bits
 - * FreeBSD
 - ▷ 32 bit version.
 - ▷ 64 bit version.
 - * OpenBSD6.6
 - ▷ 32 bit version.
 - ▷ 64 bit version.
 - * OpenBSD6.7
 - ▷ 32 bit version.
 - ▷ 64 bit version.
- , 32- 64-, , , 64-. , : X86 ARM, , X86.
- 3: , , . “bin” , “installation.pdf”, , , , “install.sh” (Unix) “install.bat” (Windows).
 - 4: (“install.sh” “install.bat”). , .
 - * Unix , , bash, sh. , “home” .
 - * Windows , install.bat. , , , , .
 - 5 LMTX:

Windows “setpath.bat”, , , Windows , LMTX . GNU Linux, FreeBSD Mac OS , , ConT_EXt PATH, , , :

```
export PATH="InstallationDir/tex/texmf-Platform/bin:$PATH
```

InstallationDir - (, «/home/user/context»), texmf - Platform LMTX. , 64-Linux texmf-Platform «texmf-linux-64». :

```
export PATH="/home/user/context/texmf-linux-64/bin:$PATH
```

LMTX , , , . , , shell: bash, sh, zsh, ksh, tcsh, csh ... Linux, bash, “.bashrc” :

```
echo 'export PATH="/home/user/context/texmf-linux-64/bin:$PATH >> .bashrc
```

: , ConT_EXt , , , TeX Live “ConT_EXt Standalone”. , , [section 3](#).

2.2 LMTX

ConT_EXt LMTX ConT_EXt. ConT_EXt wiki script, .

[aforementioned script](#), , LMTX. (, install.sh install.bat) . , GNU Linux. , Windows, , .

2.3 LMTX

LMTX , : - .

-, , , , ; , , “install.sh” “install.bat”; , , , .

2.4 , , LMTX (GNU / Linux)

“ConT_EXt Standalone” , , (“tex/setup_{tex}”), , , LMTX . , , “setuplmtx” “tex”. , , :

```

export PATH="/context/LMTX/tex/texmf-linux-64/bin:\$PATH"
echo "Adding ~/context/LMTX/tex/texmf-linux-64/bin to PATH"
export TEXROOT="/context/LMTX/tex"
echo "Setting ~/context/LMTX/tex as TEXROOT"
export OSFONTPATH="/context/LMTX/tex/texmf-linux-64/texmf/TeXLive/fonts/opentype/"
echo "Loading font directories into memory"
alias lmtx="/context/LMTX/tex/texmf-linux-64/bin/context"
echo "Creating an alias to run lmtx"

```

```

, , LMTX, "lmtx" "context".

```

```

, LMTX, , :

```

```

source ~/context/LMTX/tex/setuplmtx

```

```

, LMTX " /context/LMTX" "setuplmtx" " /context/LMTX/tex".

```

```

-- , , LMTX , "ConTEXt Standalone". , LMTX , , OSFONTPATH, ,
ConTEXt wiki .

```

3 ConT_EXt (Unix)

```

alias ConTEXt. , , , ConTEXt, TeX Live LMTX; Standalone LMTX.

```

```

, LMTX, 2020 , ".bashrc" ( , ):

```

```

alias lmtx-01="/home/user/context/202001/tex/texmf-linux-64/bin/context"
alias lmtx-08="/home/user/context/202008/tex/texmf-linux-64/bin/context"

```

```

lmtx-01 LMTX, "context/202001", lmtx-08 -- , "context/202008".

```

, , ; () .

, . , , , , ; , , . , , , , , (, , , ,). , , (, ,).

, . , , ConT_EXt, -, . , , , T_EX L^AT_EX, , , ConT_EXt. L^AT_EX ('\$').

ConT_EXt, , .

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Ⓓ	\textdong	€	\texteuro	f	\textflorin
£	\textsterling	¥	\textyen	™	\trademark

''

△	\triangle	●	\bigcirc	□	\square
◁	\triangleleft	◦	\circ	■	\blacksquare
▷	\triangleright	•	\bullet	◻	\boxdot
▽	\triangledown	⊙	\circledast	⊞	\boxminus
▼	\blacktriangledown	⊗	\circledcirc	⊕	\boxplus
◀	\blacktriangleleft	⊖	\circledddash	⊗	\boxtimes
▶	\blacktriangleright	⊕	\bigoplus	*	\ast
▲	\blacktriangle	⊗	\bigotimes	‡	\maltese
≐	\triangleq	⊕	\oplus	*	\star
◊	\diamond	⊖	\ominus	♣	\clubsuit
◊	\lozenge	⊗	\otimes	♥	\heartsuit
♠	\blacklozenge	⊖	\oslash	♠	\spadesuit
◊	\diamondsuit	⊙	\odot	∅	\varnothing

:

←	\leftarrow, \gets	→	\rightarrow, \to	↔	\leftrightarrow
⇐	\nleftarrow	⇒	\nrightarrow	⇔	\Leftrightarrow
⇐	\longleftarrow	⇒	\longrightarrow	⇐	\longlefttrightarrow
⇐	\Lleftarrow	⇒	\Rrightarrow	⇐	\Longlefttrightarrow
⇐	\nLleftarrow	⇐	\nRrightarrow	⇐	\leftrightharpoons
↵	\Lsh	↶	\Rsh	↷	\leftrightsquigarrow
⇐	\mapsfrom	⇐	\mapsto	⇐	\nLeftrightarrow
⇐	\longmapsfrom	⇐	\longmapsto	⇐	\nletrightarrow
⇐	\Mapsfrom	⇐	\Mapsto	⇐	\rightleftarrows
⇐	\Longmapsfrom	⇐	\Longmapsto	⇐	\rightleftharpoons
↵	\leftarrowtail	↵	\rightarrowtail	↕	\updownarrow
⇐	\twoheadleftarrow	⇐	\twoheadrightarrow	⇐	\Updownarrow
↶	\circlearrowleft	↷	\circlearrowright	⇐	\updownarrows
↶	\curvearrowleft	↷	\curvearrowright	↑	\uparrow
↶	\hookleftarrow	↷	\hookrightarrow	↑	\Uparrow
↶	\leftharpoondown	↶	\rightharpoondown	↑↑	\upuparrows
↶	\leftharpoonup	↶	\rightharpoonup	↑	\twoheaduparrow
⇐	\leftleftarrows	⇐	\rightrightarrows	↑	\upharpoonleft
⇐	\looparrowleft	⇐	\looparrowright	↑	\upharpoonright
↶	\swarrow	↷	\searrow	↓	\downarrow

\nwarrow	<code>\nwarrow</code>	\nearrow	<code>\nearrow</code>	\Downarrow	<code>\Downarrow</code>
\rightsquigarrow	<code>\leftsquigarrow</code>	\leadsto	<code>\leadsto, \rightsquigarrow</code>	\Downarrow	<code>\downdownarrows</code>
\Leftrightarrow	<code>\iff</code>	\twoheadrightarrow	<code>\twoheadrightarrow</code>	\Downarrow	<code>\downharpoonleft</code>
\Rightarrow	<code>\implies</code>			\Downarrow	<code>\downharpoonright</code>

\because	<code>\because</code>	\cdotp	<code>\cdotp</code>
\cdots	<code>\cdots</code>	\centerdot	<code>\centerdot</code>
\ddots	<code>\ddots</code>	\dots	<code>\dots</code>
\ldots	<code>\ldots</code>	therefore	<code>\therefore</code>
\vdots	<code>\vdots</code>	\quotedblbase	<code>\quotedbl</code>

:

\aleph	<code>\aleph</code>	\amalg	<code>\amalg</code>	\angle	<code>\angle</code>
\approx	<code>\approx</code>	\approxeq	<code>\approxeq</code>	\asymp	<code>\asymp</code>
\backsimeq	<code>\backsimeq</code>	\backslash	<code>\backslash</code>	\barwedge	<code>\barwedge</code>
\between	<code>\between</code>	\bigcap	<code>\bigcap</code>	\bigcup	<code>\bigcup</code>
\bigsqcup	<code>\bigsqcup</code>	\biguplus	<code>\biguplus</code>	\bigvee	<code>\bigvee</code>
\bigwedge	<code>\bigwedge</code>	\bot	<code>\bot</code>	\bowtie	<code>\bowtie</code>
\Bumpeq	<code>\Bumpeq</code>	\cap	<code>\cap</code>	\Cap	<code>\Cap</code>
\circeq	<code>\circeq</code>	\complement	<code>\complement</code>	\cong	<code>\cong</code>
\coprod	<code>\coprod</code>	\cup	<code>\cup</code>	\Cup	<code>\Cup</code>
\curlyeqprec	<code>\curlyeqprec</code>	\curlyeqsucc	<code>\curlyeqsucc</code>	\curlyvee	<code>\curlyvee</code>
\curlywedge	<code>\curlywedge</code>	\dashv	<code>\dashv</code>	\dagger	<code>\dagger</code>
\ddagger	<code>\ddagger</code>	\diamondsuit	<code>\diamondsuit</code>	\div	<code>\div</code>
\divideontimes	<code>\divideontimes</code>	\doteq	<code>\doteq</code>	\doteqdot	<code>\doteqdot</code>
\dotplus	<code>\dotplus</code>	ℓ	<code>\ell</code>	\emptyset	<code>\emptyset</code>
\eqcirc	<code>\eqcirc</code>	\eqslantgtr	<code>\eqslantgtr</code>	\eqslantless	<code>\eqslantless</code>
\equiv	<code>\equiv</code>	\eth	<code>\eth</code>	\exists	<code>\exists</code>
$\exists!$	<code>\exists!</code>	\fallingdotseq	<code>\fallingdotseq</code>	\flat	<code>\flat</code>
\forall	<code>\forall</code>	\frown	<code>\frown</code>	\geq	<code>\geq</code>
\geqslant	<code>\geqslant</code>	\gg	<code>\gg</code>	\ggg	<code>\ggg</code>
\gtrapprox	<code>\gtrapprox</code>	\gneq	<code>\gneq</code>	\gnsim	<code>\gnsim</code>
\gtrapprox	<code>\gtrapprox</code>	\gtrdot	<code>\gtrdot</code>	\gtreqless	<code>\gtreqless</code>
\gtreqless	<code>\gtreqless</code>	\gtrless	<code>\gtrless</code>	\gtrsim	<code>\gtrsim</code>
\hbar	<code>\hbar</code>	\heartsuit	<code>\heartsuit</code>	\hslash	<code>\hslash</code>
\int	<code>\int</code>	\Im	<code>\Im</code>	\imath	<code>\imath</code>
\in	<code>\in</code>	∞	<code>\infty</code>	\int	<code>\int</code>
\intercal	<code>\intercal</code>	\jmath	<code>\jmath</code>	\land	<code>\land</code>
\leftthreetimes	<code>\leftthreetimes</code>	\leq	<code>\leq</code>	\leqq	<code>\leqq</code>
\leqslant	<code>\leqslant</code>	\lessapprox	<code>\lessapprox</code>	\lessdot	<code>\lessdot</code>
\lesseqgtr	<code>\lesseqgtr</code>	\lesseqqgtr	<code>\lesseqqgtr</code>	\lessgtr	<code>\lessgtr</code>
\lessim	<code>\lessim</code>	\ll	<code>\ll</code>	\lll	<code>\lll</code>
\lnapprox	<code>\lnapprox</code>	\lneq	<code>\lneq</code>	\lneqq	<code>\lneqq</code>
\lnsim	<code>\lnsim</code>	\lor	<code>\lor</code>	\ltimes	<code>\ltimes</code>
\measuredangle	<code>\measuredangle</code>	\models	<code>\models</code>	\mp	<code>\mp</code>
\multimap	<code>\multimap</code>	\nVDash	<code>\nVDash</code>	∇	<code>\nabla</code>
\natural	<code>\natural</code>	\ncong	<code>\ncong</code>	\neq	<code>\neq</code>
\neg	<code>\neg</code>	\nexists	<code>\nexists</code>	\ngeq	<code>\ngeq</code>
\ngtr	<code>\ngtr</code>	\ni	<code>\ni</code>	\nleq	<code>\nleq</code>
\nless	<code>\nless</code>	\nmid	<code>\nmid</code>	$\not\approx$	<code>\not\approx</code>
$\not\equiv$	<code>\not\equiv</code>	$\not\sim$	<code>\not\sim</code>	$\not\approx$	<code>\not\approx</code>
\notin	<code>\notin</code>	\nparallel	<code>\nparallel</code>	\nprec	<code>\nprec</code>
\nsim	<code>\nsim</code>	\nsubseteq	<code>\nsubseteq</code>	\nsucc	<code>\nsucc</code>

\supseteq	<code>\nsupseteq</code>	\triangleleft	<code>\ntriangleleft</code>	\trianglelefteq	<code>\ntrianglelefteq</code>
\triangleright	<code>\ntriangleright</code>	\trianglerighteq	<code>\ntrianglerighteq</code>	\nvdash	<code>\nvdash</code>
\nvDash	<code>\nvDash</code>	\oint	<code>\oint</code>	\parallel	<code>\parallel</code>
∂	<code>\partial</code>	\perp	<code>\perp</code>	\permil	<code>\permil</code>
\pm	<code>\pm</code>	\prec	<code>\prec</code>	\preccurlyeq	<code>\preccurlyeq</code>
\preceq	<code>\preceq</code>	\precnsim	<code>\precnsim</code>	\precsim	<code>\precsim</code>
\prime	<code>\prime</code>	\prod	<code>\prod</code>	\propto	<code>\propto</code>
\Re	<code>\Re</code>	\times	<code>\times</code>	\risingdotseq	<code>\risingdotseq</code>
\rtimes	<code>\rtimes</code>	\sharp	<code>\sharp</code>	\sim	<code>\sim</code>
\simeq	<code>\simeq</code>	\smile	<code>\smile</code>	\sphericalangle	<code>\sphericalangle</code>
\sqcap	<code>\sqcap</code>	\sqcup	<code>\sqcup</code>	\sqsubset	<code>\sqsubset</code>
\sqsubseteq	<code>\sqsubseteq</code>	\sqsupset	<code>\sqsupset</code>	\sqsupseteq	<code>\sqsupseteq</code>
\subset	<code>\subset</code>	\Subset	<code>\Subset</code>	\subseteq	<code>\subseteq</code>
\subsetneq	<code>\subsetneq</code>	\succ	<code>\succ</code>	\succcurlyeq	<code>\succcurlyeq</code>
\succeq	<code>\succeq</code>	\succsim	<code>\succsim</code>	\succsim	<code>\succsim</code>
\sum	<code>\sum</code>	\supset	<code>\supset</code>	\Supset	<code>\Supset</code>
\supseteq	<code>\supseteq</code>	\supsetneq	<code>\supsetneq</code>	\surd	<code>\surd</code>
pm	<code>\text{pm}</code>	\times	<code>\times</code>	\top	<code>\top</code>
\triangle	<code>\triangle</code>	\oplus	<code>\oplus</code>	\Vdash	<code>\Vdash</code>
\Vdash	<code>\Vdash</code>	\vee	<code>\vee</code>	\veebar	<code>\veebar</code>
$\$ \text{Vert} \$$	<code>\\$ \text{Vert} \\$</code>	\Vdash	<code>\Vdash</code>	\wedge	<code>\wedge</code>
\wp	<code>\wp</code>	\wr	<code>\wr</code>		

\P	<code>\P</code>	\S	<code>\S</code>	$^{\circ}\text{C}$	<code>\celsius</code>
\checkmark	<code>\checkmark</code>	\O	<code>\mho</code>	Ω	<code>\ohm</code>
$^{\circ}$	<code>\textdegree</code>	\mathbb{N}	<code>\textnumero</code>	_	<code>\textvisiblespace</code>

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