Joaquín Ataz-López

ConTeXt Mark IV

ConTeXt Mark IV
Version 1.6 [2 2021]

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Original title: Una introducción (no demasiado breve) a ConTeXt Mark IV
English Translation: A good friend who wishes to remain anonymous.

Version history:

- 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.

*

, ConTEXt, , TEX, , , , 1977 1982 . .

ConTEXt -- , . , , , , , , , . , ConTEXt , . , , , «». ,
Donald E. Knuth, TEX (, ConTEXt):

-- , - . TEX - ; , , .

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

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

, . , , ConTEXt «Excursion», .

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

2013 , , , ConTEXt Mark II, ConTEXt Mark IV ( ), , . . , «ConTEXt
Standalone». , , - ConTEXt , «ConTEXt Mark IV, Excursion». ConTEXt ,
wiki, , , Mark II, Mark IV . ConTEXt [3], , .

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

- , , , . , : ConTEXt , . , , : , - (, --), - ,
, ConTEXt, , , , , .

, . , , , , , , , , .

, ConTEXt, , , , , , , , , , . , , , , .

, , , , , , , , . . , , , , joaquin@ataz.org. , , , , ( ) . . ,
, , : , ConTEXt, , , . , , . . , , , . „conjecture" , . . [4] , , -
: , , . [5] , , , , .

, , , TEX, ConTEXt, , , , TEX LATEX (TEX), ConTEXt. , , , . , , ,
ConTEXt, , , .

ConTEXt ; - , « », , , , , , , , , , ...

, , , , ConTEXt , , . . , , ConTEXt , , , , , ,
, , , , .

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* / ConTEXt „The TEXBook", , , TEX. , ; , , , , , .
[2] , , , , ; 2020 ConTeXt , , «» ConTEXt LMTX. , , ConTEXt, «ConTEXt
Standalone», . Appendix , .
[3] . section 3.6.
[4] , (https://es.dreamstime.com/), , .
[5] (https://www.freepik.es/), .

, , ConTeXt TeX, , , ConTeXt TeX; , , , , , ConTeXt TeX; , , , TeX.

, :

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

  , , ., , ; TeX, LaTeX, 3 4. :

  – , ConTeXt(3), , , , LaTeX ConTeXt. , , , , LaTeX , , ConTeXt .

  – , ConTeXt (4), TeX.

- , 5 9, , ConTeXt.

  – , -- , . 5 6.

    ∗ :, , , (,) .. , , , .

    ∗ , . , , , .

  – 7 8 , ConTeXt . 7 ( ), 8 -- , ; , , , ConTeXt, ConTeXt «».

  – , 9 , , - () (). (links), . ( ) , ConTeXt .

    - , 8, , 7. , , , , , .

  , (10) . , (,). , ConTeXt, ; , , , ConTeXt , :

  – 10 11 , : , , , , , , ..., , , : , , -, .

  – 12 , , ; -: , , , ..

  – , 13 , : , , .

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

  : , (, ...), XML, Lua, , MetaPost, .. , ConTeXt , « ConTeXt Mark IV»; , , , , : , , 300 , . , , ConTeXt , , . , , ( ) , , , , , , . . , , , , ; , , , , .

  , , Oetiker, Partl, Hyna Schlegl, , LaTeX. «The Not So Short Introduction to LaTeX 2_e». , : , , , LaTeX ConTeXt. LaTeX; -, ConTeXt, , . . , , ..

Joaquín Ataz-López
Summer 2020

I
ConTEXt

1.1   ConTEXt?

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

- ConTEXt, Mark II Mark IV . ConTEXt Mark II , .. ,   .   ,   - . ConTEXt Mark IV, , , , ., , , ,   . ; . , . .,   ConTEXt Mark IV.

- ConTEXt -- libre (,   ). (, CONTEXT) GNU General Public Licence.   «Creative Commons», .

- ConTEXt , , , ,   ., ConTEXt:

  –   .

  – , , , , ConTEXt , , . ConTEXt, , ;   , , ConTEXt -- .

  – , , («context»[1]), PDF-,   .

- , ConTEXt , , , ConTEXt. -,   , , , PDF, ConTEXt , .

   .

1.2

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

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

   .   XIX , ,   , , ;   , , .

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

   [2]   . , , , , , , , ., -- , , ,   ,   ., , ConTEXt, ; , , , , .   , , .

1.3

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

, , , ., , ,   , , , .

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

---

[1] ConTEXt -- , ( ). , , , - .   «ConTeXt» (ConTEXt),   , ., , «context» , .   , .

[2] , .   , .

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

1.4 T_EX

T_EX 70- . , ( ) , . T_EX, Knuth MetaFont, , , Computer Modern, ,
, «» [1], . , T_EX, , , . , , , .

T_EX , . T_EX : , , , (,) , , . , , , ... , , . , , T_EX, 65,536 , ,
, . , , T_EX, 0,000005356 .

T_EX τέχνη, (TÉXNH). , T_EX -- „X", „χ", -- -- -- «ch» loch. T_EX Tech. , «»,
«», . , -- « , T_EX . , ».

, Knuth, , T_EX:

- , , , : , „E" , „T" „X"; : «T_EX».

    , Knuth T_EX : \TeX.

- (,) „T" „X" , „e" -- ; : «TeX».

- T_EX, , ConT_EXt. «ConTeXt».

1.4.1 T_EX

T_EX -- libre: , , , «T_EX». , , T_EX Engines. T_EX, , , pdfT_EX,
ε-T_EX, X_ET_EX LuaT_EX. . , , LuaT_EX, , , , .

, T_EX , T_EX. , ConT_EXt Mark IV LuaTeX. ConT_EXt T_EX Engines ,
Mark II (PdfTeX XeTeX) Mark IV (LuaTeX).

1.4.2 , T_EX

T_EX 300 , , . , , , , «shift 0,000725 » . , Knuth , T_EX , , , , .
, , . , T_EX, (\TeX), :

```
T
\kern -.1667em
\lower .5ex
\hbox {E}
\kern -.125em
X
```

, «\TeX» , .

    T_EX. , , . .

-- , T_EX . , Knuth 600 , 300 «PlainT_EX». T_EX PlainT_EX , , , T_EX, Plain
T_EX. , , T_EX («TheT_EXBook»), PlainT_EX; , , T_EX PlainT_EX.

, , , «tex» (,) . , T_EX, , . T_EX, T_EX .

1.5 ConT_EXt

ConT_EXt, T_EX, . ConT_EXt :

---

[1] - , , (,).

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   ConTEXt

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

,   , ConTEXt   „context",   „contecht",   .

2005 ,   ,   ConTEXt Mark II,   „II", , ,   „I",   . ,   ,   ,   ,   , , .   ,
«official»   ConTEXt   ,   .

ConTEXt Mark II   PdfTeX TEX engine. ,   XΗTEX ConTEXt Mark II ,   ,   PdfTeX.
LuaTEX,   ConTEXt,   ,   .   ConTEXt Mark IV,   2007 ,   LuaTEX. ,   ,   ConTEXt
LuaTEX, ,   ConTEXt, Hans Hagen Taco Hoekwater,   LuaTEX.   ConTEXt Mark IV
LuaTEX   .   ConTEXt LuaTEX ,   TEX;   , -   LuaTEX, ConTEXt.

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

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

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

,   , ,   ,   «» ConTEXt.   ,   , , ,   Mark II,   Mark IV ;   , , ,   ;   ,   ,
Mark II   Mark IV.

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

ConTEXt, , «ConTEXt 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 ConTEXt wiki, , Mark IV
, TEX, , .

, , , ConTEXt (ConTEXt verse?) LMTX, , LuaMetaTeX: TEX, LuaTEX, ;
, LMTX , ConTEXt Mark IV.

LMTX 2019 , , - Mark IV. ; LuaTEX LuaMetaTeX. Appendix ,
ConTEXt, (section 3).

1.5.2 ConTEXt LATEX

, , TEX, LATEX, ConTEXt . , , , TEX; , , , : , (), , , . , LATEX
ConTEXt , . LATEX, TEX, , , LATEX. , TEX TEX , . , ConTEXt , .
, , , . ConTEXt , TEX, LATEX.

, , . LATEX, , TEX. - . , , . , LATEX, : , LATEX , , , - , ; ,
, . , LATEX , , .

LATEX, , ConTEXt , TEX, , . ConTEXt , , , , , , .

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

, . . , , , , LATEX; , , , -, , , , ConTEXt, ; , , , .

1.5.3 ConTEXt

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

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

1. «» , , , , . , , , : ; .

2. , .

3. , ConTEXt, .

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

5. (), , , . .

6. , „ ", , , , .

7. , , , , , .

8. .

, , , ConTEXt, , , , , , , . , ., ConTEXt, , 3500 , ConTEXt . .
, , , , , , , , . 15 20 , . , . , ConTEXt , , ConTEXt.

1.5.4 ConTEXt

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

- ConTEXt , «ConTEXt Standalone», TeX -- LaTeX Stack Exchange ConTEXt
(NTG-context). , ConTEXt , - , , , .

ConTEXt, .

2.1 :

:

, .

. , , . : , , , , (gratis), (libre), TEX, -- .. , ; , , ConTEXt . , .

GNU Emacs, ; , , « Emacs» , « Emacs». GNU Emacs AucTeX TEX , , AucTeX LATEX, ConTEXt. GNU Emacs AucTeX , , ; , .. , GNU Emacs , , , , , . , Richard Stallman, GNU Free Software Foundation.

GNU Emacs + AucTeX, , , , - Scite TexWorks. , , ConTEXt, , , ConTEXt, «ConTEXt Standalone» , . TexWorks, , TEX . ConTEXt , «ConTEXt Standalone» .

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

1. ConTEXt . TEX (LATEX), , , 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.mkxl
   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

, ConT_EXt «context».

script, , , **Appendix** «ConT_EXt Standalone».

, , «context», , . ,

$> context rain

. , «rain.tex», «context» . , , «rain.mkiv» (, , Mark IV), , «context rain.mkiv».

«context» , , ConT_EXt. , , , , «.log». , .

, , , . , . , ConT_EXt , , , . . , . , , «context», :

• rain.pdf
• rain.log
• rain.tuc

- , , , PDF-. -- «.log», , ; -- , CONT_EXT . , , , (rain.log rain.tuc). -, , , .

, , :

• ConT_EXt, ««context»» «command unknown».
• UTF-8, .
• , , ConT_EXt, , Mark II. UTF-8 . , , , , Mark IV, Mark II: «ConT_EXt Standalone».
• .

«context» , , CTRL-X, ConT_EXt, - .

, , , .

figure 2.1 «rain.pdf». , ConT_EXt . , ConT_EXt , (\mainlanguage[en]).

: ConT_EXt , , . , , , .

2.3

, , \starttext ... \stoptext. , \starttext, . \starttext \stoptext. : (\mainlanguage), (\setuppapersize), «S5», (\setuphead), , .

\starttext \stoptext. : , ConT_EXt, , , . , \starttext \stoptext ConT_EXt, , (**section 4.6**), , .

2.4 , «context»

«context», , Lua Lua script, Lua, LuaT_EX, .

«context» . . , . «help» :

$>context --help

:

interface: , ConT_EXt . , (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: ConT_EXt (-- ConTEXt,   ).

useenvironment=list: ConTEXt (--   ).

version: ConTEXt.

help: .

noconsole: . - .log.

nonstopmode: . ,   , ConTEXt ,   ,   , ,   .

batchmode: .   .

   ConTEXt ,   , , ,   ,   . , ,   .

2.5

   ConTEXt   .   :

1. . ,   .   , . ,   **\TeX \Tex**   „x", , ConTEXt   , , «TeX» «Tex» ;   ,   ..

2. . ConTEXt , , ,   , ; $, ,   ,   ,   ,   ,   , ,   „{"   **\startSomething,**   „}"
   \stopsomething .

3. . ,   , , ,   ,   , , , .

4. . ,   .   : ConTEXt   ,   .

 , «context»   , ? , , .   «.log», ;   ,   ,   , «context».

```
3    \setuppapersize % Paper size
4      [S5]
5
6    \setupbodyfont
7      [modern,12pt] % Main font
8
9    \setuphead      % Chapter titles in bold
10     [chapter]
11     [style=\bfc]
12
13 >>  \startext  % Begin the document
14
15     \startchapter[title=The rain in Spain]
16
17     How kind of you to let me come.
18     Now once again, where does it rain?
19     On the plain, on the plain.
20     And where's that blasted plain?
21     In Spain, in Spain.
22     The rain in Spain stays mainly in the plain.
23     The rain in Spain stays mainly in the plain.

mtx-context    | fatal error: return code: 256
```

2.2   Screen output in the case of a compilation error

,   «rain.tex»   \starttext \startext („t”),   ,   «context rain»   ,   figure 2.2.   ,   ,
,   13,   , «>>», ,   ,   . «rain.log»   .   ,   ;   .   . «rain.log» , ,   ,
ConTEXt.   ,   ,   .   «tex error»,   :

tex error   > tex error on line 13 in file |
                 /home/jq/context/docs/rain.tex: ! Undefined control sequence

l.13 \startext
          % Begin the document

   : ,   «rain.log», .   ,   ,   . „|” ,   .

       , , ,   (13)   : « » «Undefined control sequence», ,   : , , .   13, ,   .   ,
\startext.   ,   , , «startext»,   «starttext» („t”).

   ,   ,   , «startext»   , «starttext». , , . ,   .

     -. ,   , -. ,   ,   .   «tex error» «.log»   .   ,   .   .

   «.log» ,   .   --   \stoptext. , ConTEXt ,   .,   \stoptext   , ; , ,   , , ,
... , , \stoptext , , .   ,   ,   , , , ,   -. ,   . , ,   ,   .   -. ,   ,   ,   .

,   ConTEXt   ,   , , , ,   ,   ,   .

, , , ConTEXt , . «», «» « ».

ConTEXt (, TEX), . -- , . -- , , , , , , . ., ConTEXt . , . : , , . ConTEXt , , , . , , . .

-- , ConTEXt - ; . , KNUTH, TEX, , , , . , , .

ConTEXt : .

3.1 ConTEXt

ConTEXt , , , - , , . ConTEXt . , ConTEXt , , 11 , . 11 ? . 11 ; , «\», , , , . ConTEXt 3000 (, Mark II, Mark IV, ,).

:

\ % { } # ~ | $ _ ^ &

ConTEXt :

\ : , , , , . «escape-» «escape-» («Esc»,). [1]

% ConTEXt, , , , . . , - , , , , , ; , , , . , , , , , ; ; , , , , ... , , , , , . , , , .

{ . - , . section 3.8.1.

} , {.

. . . section 3.7.1 .

~ , , , , ~, . , , section 11.3.1.

| , , , , , . . section 10.4.

$ -- . , , , . ConTEXt , , . , - ConTEXt . , !

_ . , , x_1, x_1.

^ . , , $(x+i)^{n^3}$, $(x+i)^{n^3}$.

& ConTEXt , , , . Plain TEX : , . «ConTEXt Mark IV, an Excursion», , , , , Plain TEX, . , , , , .

, , , , , . , , , , , - 100 ($100) 65 16% 2018 . , , . table 3.1.

,
\   \backslash
%   \%
{   \{
}   \}
\#
~   \lettertilde
	|
$ \$
_   _
^   \letterhat
&   \&

3.1

-- \type.   ,   ,   - , ,   .   ,   \type,   ,   .

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

,   ,   ,   ,   ,   :

1.   .

2.   .   «~» «%»;   «~»,   ,   ;   ,   «%». «\»   ,   ,   ConTEXt . ,   «\»,   .

3.   :   ,   (_ ^ &):   ,   .

3 - . ,   ConTEXt, ,   ;   ,   ; , , LATEX.

3.2

«\».   ,   escape-, :

.   .   escape- („\")   ,   , , , „\.", «\1», «\'» «\%».   ,   ,   , , ,   . . ,   (),   ,   ⎵ . , «\⎵»
(,)   ,   .

--   „",   ,   ,   . Knuth   ,   „The TEXBook"   «⎵». , ,   ,   ,
„word1⎵⎵word2".

.   . ,   ,   ,   .   ,   ; ,   .   . , , ConTEXt   , , \mycommand \MyCommand
. \MyCommand1 \MyCommand2   , „1" „2" ,   .

ConTEXt   ,   «manuals»,   «ConTEXt Standalone».   , , TEX (, , , , ,
«»).   .

ConTEXt   escape- («\»), ,   .   ,   escape-.   , ,   . ,   escape- -- , ConTEXt   , , , , . , , , , .

«non-letter»   , ,   ,   , , ConTEXt   . ,   ConTEXt,   - ,   . ,

\TeX   \ConTeXt.
\TeX,   ,   \ConTeXt

:

TEX   ConTEXt.
TEX,   ,   ConTEXt.[1]

---

[1] :   , ,   - ,   ,   ,   :   ;   - ,   ConTEXt   - .

, «TEX» , . , «non-letter» \TeX , , ConTEXt , , , , .

, , ,

\TeX␣␣ \ConTeXt[1].

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

- «{}». «{», , , «}» , «{}» . , ConTEXt , . , , «{\TeX}». , „non-letter"
  \TeX .

- «\␣» (, . page 20). . ConTEXt, , , , , ConTEXt (, \TeX), (, «\␣»):

  – ConTEXt \ „T", , , , «», , \ .
  – , \TeX, TEX . , , .
  – , , « », , , . .
  – , , (,), .

  , . , , , ., ‾ .

  , , (TEX) «» ., :

  \def\txt-{\TeX}

  \txt, , \TeX, , \txt-. , , , . , TEX, . : , , \txt-, ConTEXt
  \TeX, , , , , , .

  «» \define, ConTEXt .

3.3

3.3.1 ,

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

, . (, , , ..).

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

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

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

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

\framed{Tweedledum and Tweedledee}

Tweedledum and Tweedledee

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

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

---
[1] «␣», page 20.

3.3.2 , , ()

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

ConTEXt . « ... ». , LATEX , , , ConTEXt «» - (, , section 4.6). , «» , , , . .

, , , , . , , .[1] , , , . . «.log» , ; , ConTEXt , , , «.log» .

, , , . , , , , . , :

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

, «AnotherSomethingElse» «SomethingElse» . .

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

, , , (. section 3.8.1), , , , , , , ; ConTEXt , \start (; start.) \stop. , -- .

ConTEXt , , , , , . . , , , :, \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] ; . ConTEXt LATEX, .

, ,   .   ;   (   )   , , ,   :

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

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

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

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

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

  , . (section 3.5).

3.4.2 , ,
      (\setupSomething)

, ,   , ,   .   ,   , ,   ,   .   ,   \\setup,   ,   .

 \\framed,   , . ,   ,   ,   , \\framed,   \\setupframed.

```
\setupframed
 [
   width=3cm,
   height=1cm
 ]
```

,   ,   \\framed,   3   1 ,   .

 ConTEXt 300 ,   . ,   \(\framed), («itemize»),   \(\chapter)   \(\section) ..

3.4.3   (\defineSomething)

 \framed, ,   , , ,   \framed   ,   .   ConTEXt   \defineframed, :

`\defineframed[Name][Configuration]`

 Name -- ,   ; **Configuration** -- ,   .

  ,   , , , ,   ,   ,   \(\framed).

     \framed,   ,   \setup. \defineSomething + \setupSomething -- ,   ConTEXt   .   ,
`\defineSomething, , :`

- , , .
- .
- ,   , ,   .

     .   , , , ,   ,   . , ,   «MySpecialFrame»,   \setupframed, , .   \setup   :

```
\defineframed[MySpecialFrame]

\setupframed
 [MySpecialFrame]
 [ ... ]
```

3.5 ,

, , , ConTEXt

• «\».

• .

• , , - , .

• , , , .

  , , , **\buildtextcedilla** (- „ç",), : , .

• , . , .

, , . :

• , .

• , :

  – , (ConTEXt), , ..

  – , . (. [section 3.6](#)) , .

    ⋆ , , , , . .

    ⋆ , , , , , . , - .

    , , . ( ) . .

• , ConTEXt , , , , , . , ,

  \command[Option1, Option2, ...]

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

  :

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

3.6
ConTEXt

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

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

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

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

3.7

3.7.1

, **\defineSomething** , .

, (,), ConT_EXt , , . , , , , . -- , , , . , , , , , , , .
, , , «O Tite tute Tati tibi tanta tyranne tulisti» (, , !). , , , , , «»
. :

\define\Tite{\quotation{O Tite tute Tati tibi tanta tyranne tulisti}}

, , **\Tite** , , , , , , , . , ... , , , , , . , **\Tite \tite**, ,
. , , (,). , $(x_1, \ldots, x_n)$, .

\define\xvec{$(x_1,\ldots,x_n)$}

, **\xvec** , .

\define :

\define[NumArguments]\CommandName{TeXtToReplace}

- **NumArguments** , . , , .
- **CommandName** , . , . , , - «» .
- **TextToReplace** , , .

: , , . :

```
\define\LetterHeading{
 \rightaligned{Peter Smith}\par
 \rightaligned{Consultant}\par
 Maryborough, \date\par
 Dear Sir,\par
 }
```

, . , . :

```
\define[1]\LetterHeading{
 \rightaligned{Peter Smith}\par
 \rightaligned{Consultant}\par
 Maryborough, \date\par
 Dear Mr #1,\par
 }
```

, . , **\define** 1 ([1]). ConT_EXt, . , «Dear Mr #1,», «#». , , «#1»,
. , «#1» , «#2» -- . ( ) , , . , , , :

\LetterHeading{Name of addressee}

: \LetterHeading{Anthony Moore}.

, , (« »), , , , -. :

```
\define[2]\LetterHeading{
 \rightaligned{Peter Smith}\par
 \rightaligned{Consultant}\par
```

```
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\noindentation,
  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, .

```
\define\A{B}
\A
{
  \define\A{C}
  \A
}
\A
```

,   \A   („B").   \A.   ,   („C"),   ,   \A,   , „B" . , , «»,   .

,   ,   . , ,   ,   ,   , . , , «^», , ,   ; , , , «4^2x»,   «4^2x».
«4^{2x}»,   «4^{2x}».

: -- ConTEXt, ,   ,   . ,   (section 3.5) ,   .

3.8.2

ConTEXt,   ,   ,   .   , TEX , ,   . ; , , ; ; , .   ,   , - .

ConTEXt   ,   . , ,   table 3.2.

	ConTEXt	
Inch	in	1 in = 2.54 cm
Centimetre	cm	2.54 cm = 1 inch
Millimetre	mm	100 mm = 1 cm
Point	pt	72.27 pt = 1 inch
Big point	bp	72 bp = 1 inch
Scaled point	sp	65536 sp = 1 point
Pica	pc	1 pc = 12 points
Didot	dd	1157 dd = 1238 points
Cicero	cc	1 cc = 12 didots
	em	
	ex	

3.2   ConTEXt

table 3.2 -- ;   , --   .   . ,   , ,   . 1 «em»   «M», «ex»   «x». , , ,   ,   .   .

, , ConTEXt . , ,   ,   «0»,   «0pt» «0 ».   .   ,   , (.),   (,).

- .   ConTEXt,   . ,   ConTEXt   \parindent.   , , ConTEXt   . , ,   ,   :

```
\parindent=0pt
```

\parindent 0pt ( ) \parindent0pt   .

«». , , ,   .   , ,   ,   .

, ConTEXt, «», , ,   .   :

```
\MeasureName plus MaxIncrement minus MaxDecrease
```

```
\parskip 3pt plus 2pt minus 1pt
```

ConTEXt \parskip ( )   3 ,   ,   5 (3 2) 2 (3 1).   ConTEXt   2 5 .

3.9   ConTEXt

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

ConTEXt, ,   (ConTEXt):

1. ,   ;   **Chapter 4** .

2.   **(Chapter 6)**.

3.   , , , ..   **Chapter 7**.

4. , ,   ,   **section 12.3**.

5. ... .

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

• , .

• -, ,   ,   ; ,   **\setup**   .

• ,   , .

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

 ConTEXt: ( ) , , :   :   -- ,   -- ,   .   ConTEXt ,   .

, ConTEXt , , , , ConTEXt , 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 E T E X , T E X -- , , -- , ASCII; , - .

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

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

, (,),

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

. ConTEXt , UTF-8. \enableregime, :

\enableregime[Encoding]

Encoding , ConTEXt . table 4.1 , ConTEXt

ConTEXt Mk IV UTF-8. . , , UTF-8.

\enableregime ConTEXt \useregime, . , , \enableregime, . , \useregime , , , . .

4.2 , ConTEXt

-- , , . section 3.1, ConTEXt . , , ConTEXt, , . (), , .

4.2.1 ( )

. (Tab) ConTEXt . ( ) . ,

Tweedledum and Tweedledee.

or

Encoding	Name(s) in ConTEXt	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   ConTEXt

Tweedledum and Tweedledee.

ConTEXt   .,   ,   ConTEXt,   .   «\␣»,   \,   .   ,   **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),   ConTEXt.   ,   ,   .

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

    «~»,   ,   : ,   ~   ,   ~   .

4.2.2

    ,   ,   .   ,   «Enter» «Return»

ConTEXt   :

.   . ,   ⁻ ,   ,   ,   .

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

,   «   », «   », ,   ,   ,   .   ,   .   ,   **\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	-	-	\hyphen
En rule	--	--	\endash
Em rule	---	---	\emdash
Minus sign	–	$-$	\minus

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» , , ,   .   :

- :   «text» (\starttext).

- : «text» ; , ,   \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, .

,   , ,   . -   . , 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 ConTEXt

, ConTEXt   ,   :   , ,   .   , ,   :

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

ConTEXt . , -- . , , .

5.1

5.1.1

ConTEXt , A4, . \setuppapersize, . :

\setuppapersize[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 , , .

\setuppapersize : «» () «» ().

, \setuppapersize, wiki ConTEXt:«rotated», «90», «180», «270», «mirrored» «negative». «rotated», , . , «rotated», . , «mirrored» «negative».

\setuppapersize, , , , , , . «oversized» , , ConTEXt wiki, .

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

5.1.2

, :

1. \setuppapersize, .

2. , , .

\setuppapersize

, , \setuppapersize :

---

[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,   . ,   , - ; ConTEXt, ,   .

 \definepapersize, ,   , , , ,   . ,   . , ,

\definepapersize[vertical][A4, portrait]
\definepapersize[horizontal][A4, landscape]

5.1.3

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

\setuppapersize , , . ,   \setuppapersize.

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

5.1.4

ConTEXt ,   . \startMPpage, \startpagefigure \startTEXpage. , ,   Meta-Post, ,
ConTEXt,   .   , , . : , .   , . (\startTEXpage) ,   . :

\startTEXpage[Options] ... \stopTEXpage

:

• strut .   . ConTEXt 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

ConTEXt   ,   \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)   :

- :
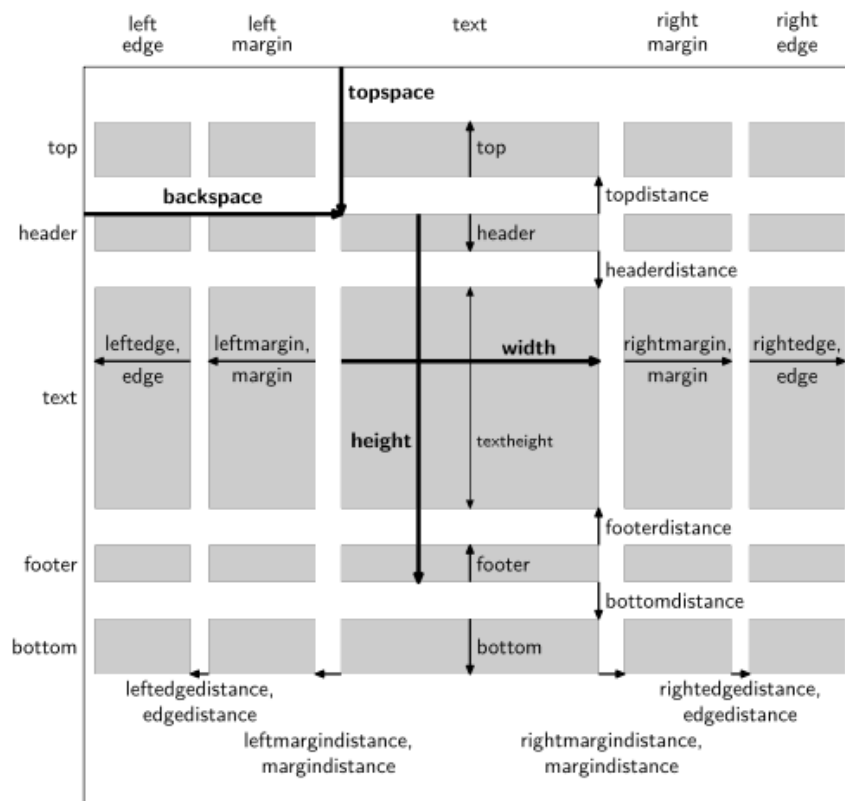
5.1

– «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,   .   ,   .   - . :

\adaptlayout[Pages] [Options]

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

,   :

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

- lines: .   +,   -- − (   ).

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

5.3.3

,   ,   , , ,   , .   ,   .   ,   ,   \definelayout, :

\definelayout[Name/Number] [Configuration]

Name/Number - ,   , ,   , Configuration   ,   .

,   ,   :

\setuplayout[LayoutName]

:

\setuplayout[reset]

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

\definelayout[1][...]
\definelayout[3][reset]

, ,   ,   1,   3   ,   .

\definelayout[even]   ,   ;   \definelayout[odd]   .

5.3.4   ,

.

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

\setuplayout   ,   ,   .   , ConTEXt   : \setuppagenumbering,   section 5.4.   ,
ConTEXt , ,   \setuplayout, ,   ,   : ,   ,   ,   ; : ,   ,   .

.

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

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

5.4

ConTEXt , . , ConTEXt , , , , .

-, :

\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}». , , , ConTEXt .

- **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**

. , ConTEXtexcursion, ; , 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. , .

\definetext, :

```
\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 ,
«ConTₑXt Standalone»

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

	ConTₑXt	
Latin Modern	modern, modern-base	Emily Brontë's book
Antykwa Poltawskiego	antykwapoltawskiego	**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 ,   ConTₑXt

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

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

, Windows,   free software (Windows),   ConTₑXt. , ConTₑXt Windows,
 , ,   ConTₑXt.   , , .   ConTₑXtConTₑXt wiki.

6.2

6.2.1 ,

, , , , ,   ,   , .   , ;   , ConTₑXt.   , ( ) . , ConTₑXt (   ), -- ,   .
alternatives.

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

, . TEX , ,   ,   ,   style .

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

,   ConTEXt (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)

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

,   , , ConTEXt ,   ,   ,   ,   .

,   .

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

$$\boxed{\text{italics -- italics -- italics}}$$

,   ,   , , , „a”,   .

, , . , ,   ,   . ,   , , .

, - ,   :

1.   , .

2.   , .

ConTEXt   emphasising .   . .

6.2.2

, ConTEXt, ,   , , ,   ,   . , , 12 .

, ConTEXt,   , , Opentype Type 1, , ,   , . , TEX , Computer Modern, ,   ,
Latin Modern, ConTEXt,   Computer Modern -   TEX,   Knuth
MetaFont, ,   TEX.

6.3

, - , ConTEXt   Latin Modern Roman 12 .   Knuth   TEX.   «» «flourishes» --
serifs - ,   ,   ; --   --   , , serifs , , , .

, \setupbodyfont,   ,   .   ,   .   ,   , .

\setupbodyfont:

\setupbodyfont[Options]

    :

- ,   , table 6.1.

- ,   (   ), .   . ,   , , ConTEXt,   , \setupbodyfont ConTEXt ,   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

    , ,   , .

,

     ,   , .   ,   -   , ;   ConTEXt ,   , ConTEXt. \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

, ,   ,   ,   ConTEXt : \setupbodyfont. , ,   ,   .   , ,   , .

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

--   --   . :

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

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

, , , , , , , , .

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

6.4.2   ,

\switchtobodyfont, ConTEXt   ,   ,   .   .   , ConTEXt , ,   ,   , ,   \dontleavehmode command.

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

6.3

Table 6.3 ,   - ;   table 6.4 ,   .

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

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, 1.2^2 (= 1.44), 1.2^3 (= 1.728) 1.2^4 (= 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.

. ConTEXt 2013 (Mark II) ,   , -- „x",   ;   .

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

\showbodyfont:

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

,   . , ConTEXt :

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] , ,   , ConTEXt   .

,   ,   . 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]
```

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

   , ,   ,   , ,   ,   l 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

ConTEXt , 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   ConTEXt

, ,

\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]   ConTEXt, , , ,, - «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

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

, ConT$_E$Xt . «».

, . «section», , , -, , ConT$_E$Xt «section». , , , , , ConT$_E$Xt section.

«» «section» ( ) :

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

 . , . ConT$_E$Xt , , , , , .

- , «» «title» «» «label». :

 – ( ) , .

 – , , .

 ConT$_E$Xt , , , , , . ConT$_E$Xt , , .

7.2

ConT$_E$Xt . , , , / .

ConT$_E$Xt , 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$_E$Xt

 :

- table 7.1 . , (, (\startchapter ... \stopchapter .

- 6 . 12 : texsubsubsubsection \subsubsubsubsection, -\subsubsubsubsubsubsubsection, \subsubsubsubsubsubsubsubject.

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

 , «» , : , «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». «ownumber=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:

```
Set 0: •  –  ⋆  ▷  ∘  ●  ●  □  ✓
Set 1: ⋆  ⋆⋆  ⋆⋆⋆  ‡  ‡‡  ‡‡‡  ⋆  ⋆⋆  ⋆⋆⋆
Set 2: ⋆  †  ‡  ⋆⋆  ††  ‡‡  ⋆⋆⋆  †††  ‡‡‡  ⋆⋆⋆⋆  ††††  ‡‡‡‡
Set 3: ⋆  ⋆⋆  ⋆⋆⋆  ‡  ‡‡  ‡‡‡  ¶  ¶¶  ¶¶¶  §  §§  §§§
```

- sectionsegments: ,   . ,   .   .   (= 1,   = 2,   = 3 ..)   (, ,   ..). , ,
  «sectionsegments=2:3» ,   .   , «sectionsegments=chapter:section».   ,   ,
  «optionsegments» Initial Level:all InitialLevel:*. , «sectionsegments=3:*» , ,   3 ().

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

```
\setuphead[part][conversion=I]
\setuphead[chapter]    [conversion=n, sectionsegments=2]
\setuphead[section]    [conversion=n, sectionsegments=2:3]
\setuphead[subsection] [conversion=n, sectionsgments=2:4]
\setuphead[subsubsection][conversion=A, sectionsegments=5]
```

7.4.4

  :

- The style   «style», «numberstyle» «textstyle»   ,   ,   .   , ; : , (,   ), (, , ...)
  .   , , (, «»),   («bf»), ,   (\bf,).   ,   , , . , ,   ,   ,   .

- The colour   «color», «numbercolor» «textcolor»   ,   .   ConTEXt - ,   .
    .

          ,   ,   ,   . :«command»,   «numbercommand»,
«textcommand»,«deepnumbercommand» «deeptextcommand».   :

- command ,   :   .   ConTEXt ,   .

- numbercommand   «command»,   .

- textcommand   «command»,   .

   , . , ,   ,   ,   , ,   «command» .   :

```
\define[2]\AlignSection
 {\framed[frame=on, width=broad,align=flushright]{#1\\#2}}

\setuphead
 [section]
 [command=\AlignSection]
```

   «command» «style»,   . , ,   «textstyle=\em» «textcommand=\WORD», \WORD (,
)   style, : \WORD{\em Title text}. , ,   ,   «textcommand» and «numbercommand»,
 «deeptextcommand» and «deepnumbercommand». ,   , «{\em\WORD{Title text}}».

      ,   .   .

7.4.5

«alternative»   :   ( ) , , . , ,   , .

        «alternative»:

- text: . ,   L&TeX **\paragraph** **\subparagraph**.

- paragraph: .

- normal: , ConTeXt   . «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»,   , ,   .

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

     (**\start** ... **\stop**),   «insidesection»,   ,   ,   ,   .   , , ,
(«insidesection=\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 , .**

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

- , , , , , ,   ..

- , , , , , ..   .

- , ,   , , ,   , ..

- ,   , , ..

  ,   **table 7.2.**

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

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.

. ,   . ( ) ,   «».   (, ,   ), - .

, **section 9.2.**

8.1

8.1.1

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

ConTEXt . :

- .

- .

- .

- ,   .

,   ,   . . **section 9.3**

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

8.1.2

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

\completecontent:

- , «».

    , ConTEXt   , , **\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   , ConTEXt (**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** , , ConTEXt 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**, , , , , () ConTEXt. **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	

<div align="center">8.1</div>

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

, , , ¯ ,   ,   .

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. ConTEXt , . ,   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 ConTEXt

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],   subsction 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),   \\completetelist[figure].   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 , .

ConT_EXt (. section 3.6) list , **\setupcombinedlist,** (, , ,). . , .

8.3 ()

8.3.1

, , , .

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

:

1. , , . , .

2. , . , , , , , , ConT_EXt, -- , , . .

3. , , . ConT_EXt : **\placeindex.**

. ,

. , , , , . : , , standard .

mark , , , , **\index,** :

\index[Alphabetical]{Index entry}

Alphabetical - , , , , **Index entry** -- , , . , , , ConT_EXt.

, , . , , \\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** , , . , , , :

* , , ConT_EXt , , , .

*   ,   ,   , , .

–   ,   .

–   ,   \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

- :

– , , , , , .. , , .

– , . , ‐ , , , , .

. , (, , «. 3.2» « 7»), . « » « » , , ‐ . , .

« » (cross references), «» (references) « » (internal references), .

, , , , ((origin)), , , ‐‐ (target). , , , , .

– , , ‐ : , , , ., , , , . interactive.

– , , , ‐ , , , , , , , , , .

; , , (, ,), .

, , ‐ , . , ConTEXt, , , , , , .

9.2

:

1. . ConTEXt . , ; , , , , , ..

2. , , , , . , .

, «origin → target» (« → »), , , , , ‐ . , , , .

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.

, ConTEXt   (. 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, , ,   .

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

ConTEXt   :

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: , ConTEXt   .   , number.

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

\ref   ,   (, ,), .

.,

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

\somewhere{Text if before}{Text if after}[Label].

, :

\color[red]{ \type{\somewhere}.
, \somewhere {before}{after} [sec:references] \somewhere{before}{after} [sec:interactivity].}

.

, , , , , - \atpage, :

\atpage[label]

, , , , , \atpage , , .

, \atpage, « » «precedingpage» , label, , , «hereafter» -- .

, : , ConTeXt «» «reference», «» «label». . , ConTeXt, \atpage, «labels» «» ( ). (. section 10.5.3)., , . , , label .

, , \atpage, , :

\setuplabeltext[en][precedingpage=New text]
\setuplabeltext[en][hereafter=New text]

, «ConTeXt Standalone» (,). ConTeXt, \setuplabeltext, , \atpage:

– «precedingpage» and «followingpage» (« » « »).
– «hencefore» and «hereafter» («» «»).

, \atpage , . « » «precedingpage», - « » «hereafter», , , .

9.2.3 ,

. , , , , -- , ., «sec:» , «fig:» , „tbl:" ..

, ConTeXt , :

– ConTeXt .

– , , , ConTeXt.

, , , , , ., , , ConTeXt wiki .

9.3

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

, ConTeXt, (ConTeXt PDF-,), . , , .

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

9.3.1

ConTeXt , , ., , :

\setupinteraction[state=start]

, . , , . «state=start» , «state=stop» , , .

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

:

– ConT_EXt . :

* ,   , , ..   ,   .

* ,   ,   .

* ,   , ,   , .

* ..

–   ,   , .   , , , , ,   ..   , , , –   .   , : .

9.3.2

\setupinteraction,   ,   ; , , .   :

– color: .

– contrastcolor: ,   , .   , .

– style: .

– title, subtitle, author, date, keyword: ,   ,   PDF-, ConT_EXt.

– click: ,   .

9.4

,   ,   URL- , , .

9.4.1 , ,

URL- , ,   , ,   ConT_EXt   . , URL- , , URL-   ,   . , URL-   ,   ,   URL-.

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

\useURL

URL- , , ,   ,   .   URL-,   .

:

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

–   URL   ,   . , URL-,   -   ,   .

–   .   ,   URL- ,   ,   -   ,   . : , , ConT_EXt:
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-,   , ConT_EXt   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- , ConTEXt ConTEXt. URL-ConTEXt .

9.5 PDF-

PDF , PDF , .

ConTEXt PDF- , , \placebookmarks, :

\placebookmarks[List of sections]

List of sections - , .

:

– \placebookmarks , . (\starttext \stoptext, \startproduct \stopproduct) , : , . , .

– , (\definehead), . .

– - , .

– «all»,, , ;, , , , , , , .

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

III

: , , , , , .

, «» «character», ConTEXt, , .

10.1 ,

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

10.1.1

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

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

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" wihtout a point	ı, ȷ	\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] , , , , „␣".

84

, , , , , ., Eszett (ß), , , , , Eszett (-).

, A , «{\r A}» \Aring .

„o”, - letters „k”, „l”, „n”, „r”, „s” and „t”, . : \kcedilla, \lcedilla, \ncedilla ... .

10.1.2

, . «» «fusion» , , , . , , , , „&”, () «et» Eszett (ß), , , „s” „z”. ; , , , , . Pagella „&” Bookman „ß”.

(Chapter 6, ,) (, 30 pt), .

, , , -- «oe» «ae», „œ” „ae”, , . ConTEXt , table 10.3

æ, Æ	\ae, \AE	\aeligature, \AEligature
œ, Œ	\oe, \OE	\oeligature, \OEligature

10.3

, () , „Ð”: , „D” „E”. , ConTEXt , ,[1] fontenc, , section 10.1.5.

, , , , « », ConTEXt , , () \definefontfeature ( ).

10.1.3

. ConTEXt , . . , , , ., \mu (μ), \Mu (M). table 10.4
, , .

	(lc/uc)	(lc/uc)
Alpha	α, A	\alpha, \Alpha
Beta	β, B	\beta, \Beta
Gamma	γ, Γ	\gamma, \Gamma
Delta	δ, Δ	\delta, \Delta
Epsilon	ϵ, ε, E	\epsilon, \varepsilon, \Epsilon
Zeta	ζ, Z	\zeta, \Zeta
Eta	η, H	\eta, \Eta
Theta	θ, ϑ, Θ	\theta, \vartheta, \Theta
Iota	ι, I	\iota, \Iota
Kappa	κ, ϰ, K	\kappa, \varkappa, \Kappa
Lambda	λ, Λ	\lambda, \Lambda
Mu	μ, M	\mu, \Mu
Nu	ν, N	\nu, \Nu
Xi	ξ, Ξ	\xi, \Xi
Omicron	o, O	\omicron, \Omicron
Pi	π, ϖ, Π	\pi, \varpi, \Pi
Rho	ρ, ϱ, P	\rho, \varrho, \Rho
Sigma	σ, ς, Σ	\sigma, \varsigma, \Sigma
Tau	τ, T	\tau, \Tau
Ypsilon	υ, Υ	\upsilon, \Upsilon
Phi	ϕ, φ, Φ	\phi, \varphi, \Phi
Chi	χ, X	\chi, \Chi
Psi	ψ, Ψ	\psi, \Psi
Omega	ω, Ω	\omega, \Omega

10.4

---

[1] LaTeX, , «fontenc» package

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

10.1.4

,   , TEX (, ConTEXt)   . . ,   **Appendix** .

10.1.5

- , , - . **UTF-8 ( )**, . ConTEXt , . , **on this link.**

, , , . **\definecharacter**, :

\definecharacter Name Character

– **Name** -- , . , .

– **Character** -- , , **\Name**. :

* (-).

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

* , .

, (**10.1.2**). , : „Ð". , , **\decontract**, , **\decontract**. :

\definecharacter decontract Ð

, , , , , , . , , „Ð" .

ConTEXt , **\definecharacter**. . :

\buildmathaccent Accent Character
\buildtextaccent Accent Character
\buildtextbottomcomma Character
\buildtextbottomdot Character
\buildtextcedilla Character
\buildtextgrave Character
\buildtextmacron Character
\buildtextognek Character

: , ConTEXt (c, k, l, n, r, s y t), . „b", **\buildtextcedilla** :

\definecharacter bcedilla {\buildtextcedilla b}

\bcedilla, „b" : „ḅ". «» , , . , .

\buildmathaccent **\buildtextognek**. .

\buildtextaccent , . «buildtextaccent», , - , , ; , , , , . , , ,
, . , , „Ð",

\definecharacter decontract {\buildtextaccent D E}

„D", («Ð̂»), . . , . .

\definecharacter unusual {\buildtextaccent _ "}

„‗" , **\unusual** .

-- , , . , „z":

–   \buildtextbottomcomma   ,   („z̦").

–   \buildtextbottomdot   ,   („ẓ").

–   \buildtextcedilla   ,   („z̧").

–   \buildtextgrave   ,   („z̀").

–   \buildtextmacron   ,   („z̄").

, \buildtextgrave , ,   \buildtextaccent; ,   ,   , .   , :

| ż -- ž |

10.1.6

«ConTEXt Standalone» ,   ConTEXt,   ,   .   «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 ,

        . ConT$_E$Xt   -- ,   ,   . ,   , ,   ,   :

– \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 «^» . ConTEXt :

– \high{Text}: , , .

– \low{Text}: , , .

– \lohi{Subscript}{Superscript}: , : , , :

\lohi{below}{above}	above below

10.2.3 Verbatim

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

, \type : (ConTEXt), ( ) .

ConTEXt \type, , , , ; , .

:

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

10   , ,   90

        \type zTweedledum and Tweedledeez
        \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 \Definetyping.
,   «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]   ConTEXt   -,   ConTEXt . ,   ,   ,   : , --   .

,   ,   , :

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

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

. , ,   ,
. :

. , ,   , \\   . :

\stretched{test\\text}   t e s t   t e x t

\setupstretched.

\definestretched,   , ,   (. section 3.6) , \setupstretched \setupcharacterk-
erning, \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         1 centimetre
This is \hskip 2cm 2 centimetres\\       This is              2 centimetres
This is \hskip 2.5cm 2.5 centimetres\\   This is               2.5 centimetres
```

,   . :

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

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

```
\hfill On the right\\                                              On the right
On both\hfill sides                     On both                         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, portughese	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
Ukranian	ua, ukrainian	
Vietnamese	vi, vietnamese	

10.5   ConTEXt

10.5.2

ConTEXt   ,   .   \setuplanguage, :

\setuplanguage[Language][Configuration]

Language -   ,   , Configuration   ,   ( ) . , 32 ,   ,   , :

– date: . .

– lefthyphenmin, righthyphenmin: ,   . , \setuplanguage[en][lefthyphenmin=4]
   ,   4 .

– spacing: : «» «broad» «» «packed». ()   , ,   ,   . , «spacing=packed»
   .   .

– leftquote, rightquote: (), , \quote   ,   (.).

  – leftquotation, rightquotation: ( ), , \quotation   ,   (. **page 95**)

10.5.3 ,

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

labels   ,   \mainlanguage (,   \language),

\setuplabeltext[Language][Key=Label]

Key -- ,   ConTEXt , Label -- ,   ConTEXt. ,

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

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

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

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

, , , , , ConTEXt ,   , , ,   ,   . \setuplabeltext   .

10.5.4

,

ConTEXt , ,   . :

  – \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

ConTEXt. , :

1.   .

2. \par \endgraf.

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

    ,   . :   ,   ,   , .

    .   ; , , ,   ,   ,   .   .

, ,   ConTEXt.

11.1.1

   . , , ,   \setupindenting,   , :

– always: .
– yes: normal . ,   , ,   , , .
– no, not, never, none: .

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

    ( )   . (quadrat) , .   , . em -   em;   (). ,   12   12   12 .
  ConTEXt   quad: quad,   , , \qquad,   , .   11   22 ,   12 - 24 .

  , ,   ,   \noindentation.

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

11.1.2

    , ( ) . , , .

ConTEXt ,   ,   . "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

T_EX ,   , - \vskip. ,   T_EX   ConT_EXt   ,   ConT_EXt.   \godown, :

\godown[]

Dimension   ,   ., \godown [5cm]   5 ; ,   , \godown   . \godown   ,   , , ,
'␣\godown [3cm]'[1]   , ,   ,   .

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

T_EX,   ConT_EXt, - \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 ,   , ConT_EXt   ,   .   .

,   , , ConT_EXt. ,   ,   , ,   . ,   .   (, ",). ConT_EXt, ,
, , , ,   .   ,   ;   ConT_EXt.   , ,   ,   ; .

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

11.3.1   '~'

, , . .   , , , , '~', T_EX 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, (TEX), :

- , .
- , , , .. , 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, \crlf \\. , \break,   , . , , , ,   . , \break ( )   ( ).

On the corner of the old quarter I saw him \emph{swagger} along like the\break 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.

, \\ \crlf,   ,   ,   :

On the corner of the old quarter I saw him \emph{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.	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, , \\ \crlf;   :

– \\   , ,   .

– \crlf ,   ,   .

.   ,   ,   . , ,   :

–   , ConTEXt   ,   . (, ,   boxes verbatim [. section 10.2.3]),   \break ,   .

– ,   ,   ,   , , ,   , -- , -- ; ,   ,   , --   , ,   ..   \\ \crlf .   .

–   .   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), ConTEXt , , , . . , , , , . ConTEXt "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.
One-one was a race horse.	Two-two was one too.
Two-two was one too.	One-one won one race.
One-one won one race.	Two-two won one too.
Two-two won one too.	
\stoplines	

\setuplines , ConTEXt, . \definelines, :

\definelines[Name] [Configuration]

, . , , , :

\startlines[Name] ... \stoplines

11.5.2

, , , , , , , .. ConTEXt 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:

  \definelinenumbering,   :

\definelinenumbering[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

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

, , :

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

- ID : , , . , , . , anchor.

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

- Text or , , , .

- Label , , , .

12.1.1 ConTEXt

ConTEXt . , , . :

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

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

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

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

:

– (section 5.7).

– ( ), , , , , .

, ( ) ( ) ConTEXt, . . .

12.1.2

, , (), \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 Dumpty[1] sat on a wall, Humpty Dumpty[1] had a great fall. All the king's horses and all the king's men Couldn't put Humpty[1] together again
	───────
	[1]Probably 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.	This[2] is a sentence with nested notes. ─────── [2]or this[3], if you prefer. [3]or possibly even this[4]. [4]could be something entirely different.

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

12.1.3

\startlocalfootnotes ,   local , ,   ,   , \placelocalfootnotes,   .

12.1.4

\Definenote.   ,   , ,   .

\Definenote :

\definenote[Name][Model][Configuration]

– Name ,   .

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

    ,   , , ,   , .

– Configuration - ,   :   , , , .

ConT_EXt (. section 3.6) ,   , ,   \setupnote. , ,   : \setupnote
\setupnotation. ,   ,   . , .

,   'BlueNote',   ,   :

\definenote [BlueNote] [footnote]
\setupnotation
 [BlueNote]
 [color=blue, style=bf]

,   , BlueNote ,   , .   \BlueNote,   \footnote:

\BlueNote[Label]{Text}

12.1.5

(,, \Definenote,   ,   \lnenote), : \setupnote \setupnotation[1].   :

\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]   ConT_EXt 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),   , \placenotes[endnote] (location=text) ,   , , location=text,   ,   , ,   , \placenotes[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   .   :

– : ( ) (,). , , , , , , . .

– : ConT_EXt , ( ) 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:** ConT_EXt , , . "no", , .

* **direction:** , . ( ), reverse .

– , :

* **tolerance:** , , , , , , ConT_EXt (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

– . (,), , , . , , , , , , ; , , , , , . .

; , , ConT_EXt, **\defineparagraphs \setupparagraphs,** , , , , .

, . « », , , , ConT_EXt : "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: Dimen-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 ,

<hr>

[1]   n   1, 2, 3, 4, ...
,   , , ,   .

m	1, 2, 3, 4, ...	**A**	A, B, C, D, ...	**R**	I, II, III, IV, ...
g	α, β, γ, δ, ...	**KA**	A, B, C, D, ...	**KR**	I, II, III, IV, ...
G	Α, Β, 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. , :

\startitemize[a, packed]	a.
\startitem \stopitem	b.
\startitem \stopitem	c.
\startitem \stopitem	
\stopitemize	

:

\startitemize[a, packed]	a.
\item	b.
\item	c.
\item	
\stopitemize	

\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

∘   ∘   ∘   ∘   ∘   I will never use ConTEXt, it is too difficult.

∘   ∘   ∘   ∘   ∘   I will only use it for writing big books.

∘   ∘   ∘   ∘   ∘   I will always use it.

∘   ∘   ∘   ∘   ∘   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   , .

– nowhite: , 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 .

– identing: . . [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 type-
                         setting system called ConTEXt. The ability to correctly contextualise
                         in any situation is considered a sign of intelligence and good sense.

ConTEXt,   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. , .

\texrule, \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 $\boxed{\text{two}}$ good $\boxed{\text{frames}}$.

,   \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   ?

,   : , , , , . ,   , , , , , ..

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

; 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 . ConT_EXt, , ,   , , .

- **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 staTEX logo and photo of Knuth

, (, ,), , ,   **\externalfigure**. , . external , .   , :

- , " ", ConT_EXt , ., , ,   ,   **\placelist [figure]** (. **section 8.2**),   ,

  \placelistoffigures or **\completelistoffigures**.

- -, ,   **\placefigure**, ,   , (. **section 9.2**).

- , , ,   ( ) , ConT_EXt .

  \placefigure, , .   , . ,   **\placefigure**, , , ; ,   ConT_EXt,   , , ,
, .. , :

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**), ConTEXt ., , , **figuretext**, :

```
\startfiguretext
  [Options]
  [Label]
  {Title}
  {Image}

  ... Text

\stopfiguretext
```

, **\placefigure**, . , ; , , "left" , , - , "left, bottom" , ., .

, , -- , .

13.2.4

A. ,

\externalfigure . :

– , ; . **\setupexternalfigures**.

– , . **\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}

13.3

13.3.1

- , , , cells, . : ( ) , ( ) . - , figure 13.3.

, , , , , .

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

ConTEXt ; tabulate, TEX; , HTML, ,,, ; , XML , . . "ConTEXt Mark IV an excursion", "ConTEXt Standalone".

- , , : , , , \placetable . :

– ConTEXt , ( ), .

– , .

\placetable , \placefigure (. section 13.2.2):

\placetable[Options][Label] {Title} {table}

13.3   Image of a simple table

13.4.1 13.4.2 , . ,,, . "split",, , ConTEXt , .

, \setuptables. , , \placelistoftables \completelistoftables. . section 8.2.2.

13.3.2 tabulate

- , tabulate, :

```
\starttabulate[Table column layout]
  ... % Table contents
  ...
  ...
\stoptabulate
```

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

, , , , . , . , , 1 2. -- , , .

1. Columns delimiter: "|" . , , "[|lT|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 .

|l|	, .
|rB|	, .
|cIm|	. .
|j4cb{---}|	T , (-) 2 .
|l|p(.7\textwidth)|	: . 70

13.1 , tabulate

, , . , , , , , :

– . **\HL** (Horizontal Line).

– : , . **\VL** (Vertical Line). , . , , **\VL**.

– , **\NR** (Next Row). **\HL**, .

– , , . , **\NR** **\HL**, .

, **\HL** **\VL** **\NC** (New Column).

, , , , , . **table 13.2** , ( ) . , , .

\HL	
\NC	
\NR	
\VL	, (\NC)
\NN	(\NC)
\TB	
\NB	, ,

13.2 ,

, **table 13.2.**

```
\placetable
 [here]
 [tbl:tablecommands]
 {, }
{\starttabulate[|l|p(.6\textwidth)|]
\HL
\NC {\bf }
\NC {\bf }
\NR
\HL
\NC \tex{HL}
\NC
\NR
\NC \tex{NC}
\NC
\NR
\NC \tex{NR}
\NC
\NR
\NC \tex{VL}
\NC , ( \tex{NC})
\NR
```

```
\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

 .

: , ConTeXt , ,   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.

–   ,   , , ,   . .   ConTEXt wiki ,   .

13.4.3

, ConTEXt   ,   \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**

, , , ConTEXt .

, , , \startcombination, .

, \startcombination , , \startframedtext, .. , \setupcombination, , \definecombination.

13.4.4

, \placefloat . :

– . \setupfloat[ ].

– . \setupfloats.

, , \placefloat[figure] \placefigure, \setupfloat[figure] \setupfigures, \setupfloat[table] \setuptables.

, ConTEXt ([section 3.6]).

13.5

\definefloat . :

\definefloat[Singular name] [Plural name] [Configuration]

Configuration , . \setupfloat[Name in the singular].

, , jungle ConTEXt, , , jungle, , , .

, , ConTEXt, , :

– , .

– 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, .

TEX(TeX Live, teTeX, MikTeX, MacTeX ..) ConTEXt. . ConTEXt; ConTEXt Mark II, Mark IV, ConTEXt 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:

ConTEXt, TEX, ; . Windows - . , , , Windows , , Windows (), , , , , . , , , . , Windows : "DOS window", "Command Prompt", "cmd" .. Windows Windows, .

Windows 2004 , , . , ; .

1
"ConTEXt Standalone"

ConTEXt, "Standalone", "ConTEXt Suite", ConTEXt, , . , , , , --- Standalone --- , . ConTEXt, . , , ConTEXt Mark II (TEX PdfLatex XeTeX) ConTEXt Mark IV (LuaTeX).

TEX , . section 1.4.1; TEX ConTEXt, , Mark II Mark IV, section 1.5.1.

, , , "ConTEXt Standalone" . , ConTEXt wiki, , wikibooks. - -, ( )

1.1

"ConTEXt Standalone" :

1. , ConTEXt.
2. .
3. .
4. .

1:

ConTEXt, , , . 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 tunelhost 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 "ConTEXt Standalone"

"ConTEXt Standalone" TEX , , , ; , ,, , ConTEXt, , , "context" , . "tex/setuptex" (Unix) "tex/setuptex.bat" (Windows). :

– Unix , "context", :

source ~/context/tex/setuptex
. ~/context/tex/setuptex

(, , "context", -- "~/context").

– Windows, tex\setuptex.bat , ConTEXt.

TEX - , , :

– 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

, , ConTeXt, , ,- , , ConTeXt . , , . ConTeXt , : LEd, Notepad ++, Scite, TeXnicCenter, TeXworks, vim .

1.3 "ConTEXt Standalone"

Mark IV , "ConTEXt Standalone" . , : "first-setup.sh" .

- "ConTEXt Standalone", "first-setup" "--context=date", date - , , . , «--».

ConTEXt this link.

, , , , GNU Linux 4 , 'Final Adjustments'.

2 LMTX

ConTEXt Mark IV LuaTeX, LuaMetaTex, LuaTeX, , of "ConTEXt Standalone", LMTX, ConTEXt. TEX: LuaMetaTeX. 2019 , 2020 ConTEXt, ConTEXt wiki.

LMTX , - . , Mark IV, , , LMTX (4 2020 .) \Caps. "ConTEXt Standalone".

2.1

:

– 1: , LMTX, , , . , "context", .

– 2: ( ) zip- ConTEXt 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 , ,   ConTEXt   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,   .   ,   shell: bash, sh, zsh, ksh, tcsh, csh ...   Linux,   bash,   ".bashrc"   :

  echo 'export PATH="/home/user/context/texmf-linux-64/bin:"$PATH >> .bashrc

  : ,   ConTEXt , , ,   TeX Live "ConTEXt Standalone".   , , section 3.

2.2   LMTX

ConTEXt LMTX   ConTEXt. ConTEXt 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)

"ConTEXt Standalone" ,   , ("tex/setuptex"),   , , 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 OSFONTDIR="~/.fonts:/usr/share/fonts:/usr/share/texmf/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 , , OSFONTDIR, , ConTEXt wiki .

3 ConTEXt (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".

, , ; ( ) .

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

, . , , ConTEXt, -, . , ,, TEX LATEX, , , ConTEXt. LATEX ('$'). ConTEXt, , .

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℗	\textcircledP	¤	\textcurrency	$	\textdollar
đ	\textdong	€	\texteuro	ƒ	\textflorin
£	\textsterling	¥	\textyen	™	\trademark

, ,

△	\triangle	●	\bigcirc	□	\square
◁	\triangleleft	◦	\circ	■	\blacksquare
▷	\triangleright	•	\bullet	⊡	\boxdot
▽	\triangledown	⊛	\circledast	⊟	\boxminus
▼	\blacktriangledown	◎	\circledcirc	⊞	\boxplus
◄	\blacktriangleleft	⊖	\circleddash	⊠	\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	⟷	\longleftrightarrow
⇐	\Lleftarrow	⇒	\Rrightarrow	⟺	\Longleftrightarrow
⇍	\nLeftarrow	⇏	\nRightarrow	⇋	\leftrightharpoons
↰	\Lsh	↱	\Rsh	↭	\leftrightsquigarrow
↤	\mapsfrom	↦	\mapsto	⇎	\nLeftrightarrow
⟻	\longmapsfrom	⟼	\longmapsto	↮	\nleftrightarrow
⇐	\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

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↖	\nwarrow	↗	\nearrow	⇓	\Downarrow
↝	\leftsquigarrow	↝	\leadsto, \rightsquigarrow	⇊	\downdownarrows
⟺	$\iff$	↡	\twoheaddownarrow	↽	\downharpoonleft
⟹	$\implies$			⇁	\downharpoonright

∵	\because	·	\cdot	·	\cdotp
⋯	\cdots	·	\centerdot	:	\colon
⋱	\ddots	...	\dots	.	\ldotp
...	\ldots	...	\textellipsis	∴	\therefore
⋮	\vdots	„	\quotedblbase	"	\quotedbl

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ℵ	\aleph	⨿	\amalg	∠	\angle
≈	\approx	≊	\approxeq	≍	\asymp
∽	\backsim	\	\backslash	⊼	\barwedge
≬	\between	∩	\bigcap	∪	\bigcup
⨆	\bigsqcup	⨄	\biguplus	⋁	\bigvee
⋀	\bigwedge	⊥	\bot	⋈	\bowtie
≏	\Bumpeq	∩	$\cap$		\Cap
≗	\circeq	∁	\complement	≅	\cong
∐	\coprod	∪	\cup	⋓	\Cup
⋞	\curlyeqprec	⋟	\curlyeqsucc	⋎	\curlyvee
⋏	\curlywedge	⊣	$\dashv$	†	\dagger, \dag
‡	\ddagger, \ddag	◇	\diamondsuit	÷	\div
⋇	\divideontimes	≐	\doteq	≑	\doteqdot
∔	\dotplus	ℓ	\ell	∅	\emptyset
≖	\eqcirc	⪖	\eqslantgtr	⪕	\eqslantless
≡	\equiv	ð	\eth	∃	\exists
∃!	\exists!	≒	\fallingdotseq	♭	\flat
∀	\forall	⌢	\frown	≥	\geq, \ge
⩾	\geqslant	≫	\gg	⋙	\ggg
⪊	\gnapprox	≩	\gneqq	≳	\gnsim
⪆	\gtrapprox	⋗	\gtrdot	⋛	\gtreqless
⪌	\gtreqqless	≷	\gtrless	≳	\gtrsim
ℏ	\hbar	♡	\heartsuit	ℏ	\hslash
⨌	\iiiint	ℑ	\Im	ι	\imath
∈	$\in$	∞	\infty	∫	$\int$
⊺	\intercal	ȷ	\jmath	∧	\land
⋋	\leftthreetimes	≤	\leq, \le	≦	\leqq
⩽	\leqslant	⪅	\lessapprox	⋖	\lessdot
⋚	\lesseqgtr	⪋	\lesseqqgtr	≶	\lessgtr
≲	\lesssim	≪	\ll	⋘	\lll
⪉	\lnapprox	≨	\lneq	≨	\lneqq
≲	\lnsim	∨	\lor	⋉	\ltimes
∡	\measuredangle	⊨	\models	∓	\mp
⊸	\multimap	⊮	\nVDash	∇	\nabla
♮	\natural	≇	\ncong	≠	\neq
¬	\neg o \lnot	∄	\nexists	≱	\ngeq
≯	\ngtr	∋	\ni	≰	\nleq
≮	\nless	∤	\nmid	/≈	\not\approx
/≡	\not\equiv	/~	\not\sim	/≃	\not\simeq
∉	\notin	∦	\nparallel	⊀	\nprec
≁	\nsim	⊈	\nsubseteq	⊁	\nsucc

⊉	\nsupseteq	⋪	\ntriangleleft	⋬	\ntrianglelefteq
⋫	\ntriangleright	⋭	\ntrianglerighteq	⊬	\nvdash
⊮	\nvDash	∮	$\oint$	∥	\parallel
∂	\partial	⊥	\perp	‰	\perthousand
±	\pm	≺	\prec	≼	\preccurlyeq
⪯	\preceq	⋨	\precnsim	≾	\precsim
′	\prime	∏	\prod	∝	\propto
ℜ	\Re	⋌	\rightthreetimes	≓	\risingdotseq
⋊	\rtimes	♯	\sharp	~	\sim
≃	\simeq	⌣	\smile	∢	\sphericalangle
⊓	\sqcap	⊔	\sqcup	⊏	\sqsubset
⊑	$\sqsubseteq$	⊐	\sqsupset	⊒	\sqsupseteq
⊂	\subset	⋐	\Subset	⊆	\subseteq
⊊	\subsetneq	≻	\succ	≽	\succcurlyeq
⪰	\succeq	⋩	\succnsim	≿	\succsim
∑	\sum	⊃	$\supset$	⋑	\Supset
⊇	\supseteq	⊋	\supsetneq	√	\surd
±	\textpm	×	\times	⊤	\top
△	\triangle	⊎	\uplus	⊨	\vDash
⊩	\Vdash	∨	\vee o \lor	⊻	\veebar
‖	$\Vert$	⊪	\Vvdash	∧	\wedge o \land
℘	\wp	≀	\wr		

¶	\P	§	\S	°C	\celsius
✓	\checkmark	℧	\mho	Ω	\ohm
°	\textdegree	№	\textnumero	␣	\textvisiblespace

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

:

– **\stopSomething** , , **\startSomething**, - **\stop** , **\start** .

– , , **Appendix B**.

– , , , , .

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