

ConT_EXt

title : ConT_EXt User Module
subtitle : Something like KOMA-TypeArea
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```

1 \writestatus{loading}{Something like KOMA-TypeArea}
2 \unprotect
\setupType... Setting up some values.
                Default setup:
                    \setupTypeArea[bcor=0pt,oneside=no,alphabets=2.6]
                Example:
                    \setupTypeArea[bcor=3mm,oneside=yes,alphabets=3.1]
3 \def\setupTypeArea[#1]{\getparameters[TA@][#1]\doTypeArea}

    Some internal dimensions:
4 \newdimen\PageWidth \newdimen\Back
  \doifundefined{Width}{\newdimen\Width}
  \doifundefined{Height}{\newdimen\Height}

    This internal macro does the whole work:
5 \def\doTypeArea{
    Set visible page width:
6 \PageWidth=\dimexpr\paperwidth-\TA@bcor\relax

    Determine the paper aspect ratio:
7 \edef\Ratio{\withoutpt{\the\dimexpr2\paperheight/(\PageWidth/32768)\relax}}

    Set the textarea width to X alphabets:
8 \setbox\scratchbox\hbox{\dorecurse{26}{\character\recurselevel}}
  \Width=\dimexpr\TA@alphabets\wd\scratchbox\relax
  \ifdim\Width<\PageWidth\else
  \writestatus{error}{line wider than page}\end\fi

    Set the textarea height proportional to the width:
9 \Height=\dimexpr(\Ratio\Width)

    Set the margin/gutter widths to be equal on a full spread:
10 \doifelse\TA@oneside{yes}
   {\Back=\dimexpr(\PageWidth - \Width) / 2 + \TA@bcor\relax}
   {\Back=\dimexpr(\PageWidth - \Width) / 3 + \TA@bcor\relax}

    Set the top and bottom margins in a 1:2 ratio, ignoring headers:
11 \edef\Top{\the\dimexpr(\paperheight - \Height) / 3 - 3\lineheight\relax}

    Redefine \Height to include header and footer space:

```

Something like KOMA-TypeArea

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12 \Height=\dimexpr(\Height + 8\lineheight)
```

Set up the page layout using the calculated parameters:

```
13 \setuplayout[
    backspace=\the\Back,
    height=\the\Height,
    width=\the\Width,
    header=2\lineheight,
    headerdistance=\lineheight,
    footer=2\lineheight,
    footerdistance=3\lineheight,
    topspace=\Top]
}
\protect

14 \setupTypeArea[bcor=0pt,oneside=no,alphabets=2.6]

15 \doifnotmode{demo}{\endinput}
```

Usage example:

```
16 \usemodule[typearea]
\setupTypeArea[bcor=0mm,alphabets=3.1]
\setuppagenumbering[alternative=doublesided]
\starttext
\dorecurse4{\framed[width=\textwidth,height=\textheight]{test}\page}
\stoptext
```