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**Information technology — Document  
description and processing languages —  
DSSSL library for complex compositions**

AMENDMENT 1: Extensions to basic  
composition styles and tables

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*Technologies de l'information — Description de document et langages  
de traitement — Bibliothèque DSSSL pour compositions complexes —*

*AMENDEMENT 1: Extensions aux styles de composition de base et  
aux tableaux*

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Amendment 1 to ISO/IEC TR 19758:2003 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 34, *Document description and processing languages*.

This amendment provides additional DSSSL library specifications for basic composition styles and table compositions.

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# Information technology — Document description and processing languages — DSSSL library for complex compositions

## AMENDMENT 1

### Extensions to basic composition styles and tables

Page 5, Clause 4.4

Add the following clause 4.4.1 before 4.5:

“

#### 4.4.1 Graphical method using the Unwin module concept

Content-driven specification can be determined by using a graphical method based on the Unwin module concept. The following procedure and Figure A1.1 show how all four margins are specified graphically using the Unwin module concept.

- a) Specify S point.
- b) Draw diagonal line from the top-right edge through S point to bottom left edge.
- c) Draw line from left page of bottom-left edge to right page of top-right edge.
- d) Draw line from left page of top-left edge to right page of bottom-right edge.
- e) Draw line from left page of top-left edge to left page of bottom right edge.
- f) Draw line from right page of top-left edge to right page of bottom right edge.
- g) Draw horizontal line from S point until reaching line which was drawn in procedure d).
- h) Draw vertical line from point A until reaching line which was drawn in procedure b).
- i) Draw horizontal line from point B and vertical line from S to set point C.

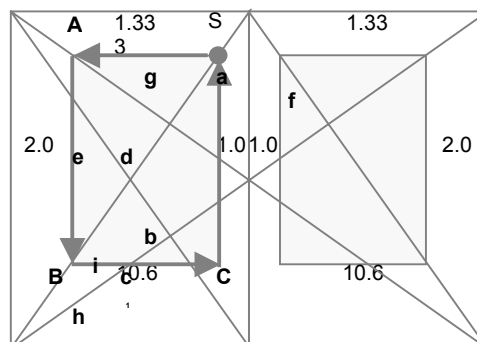
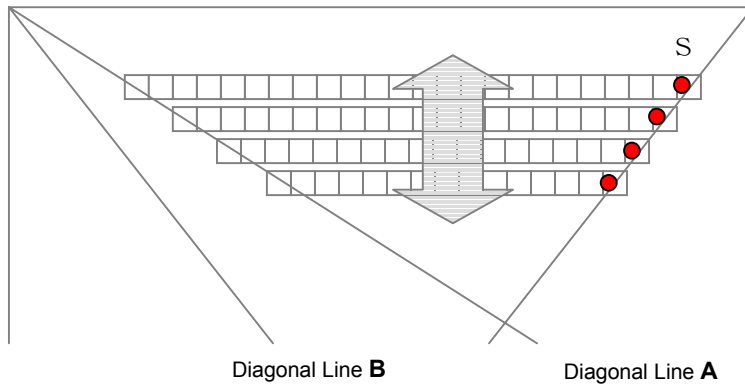


Figure A1.1 — Procedure of graphical method

It is difficult to flow content into areas defined using the Unwin.



**Figure A1.2 — Specification of starting point**

The number of em characters in a line and the number of lines in a page must be specified in a content-driven specification. As shown in figure A1.2, starting point S is determined by the closest starting point on diagonal line A that will give the largest number of designated em characters in a line between diagonal lines A and B.

The following equation is used to calculate the length of the line floating direction:

$$\text{length of line direction} = (\text{number of line} - 1) (\text{line spacing}) + (\text{character size})$$

By adopting this equation, the graphical method can be applied to content-driven method.

When using the above content-driven method as part of a DSSSL library, specification of right margin, font size, number of lines and line spacing is required.

Since the use of four sets of data is not efficient within a DSSSL library, users should limit the inputting data to values of **gutter margin** (\*gutter-margin\*) and **font size** (\*default-font-size\*).

The default value of line-spacing is designated as 1.5 em.

Page 14, Clause 4.18

Add the following clauses after 4.18.2:

**4.18.3 Rounded corner table**

The shape of a table is rectangular, though corners are allowed to be rounded.

- If you wish to round the corner of table, use \*corner-rounded-table-style\* under the specification of element table.
- The radius of the corner is specified using (define \*base-table-corner-radius\* 3pt). By changing the number within **define**, the radius of table corner is specified as the value of it. The default value of a table corner radius is 3pt.

#### 4.18.4 Table header column and row

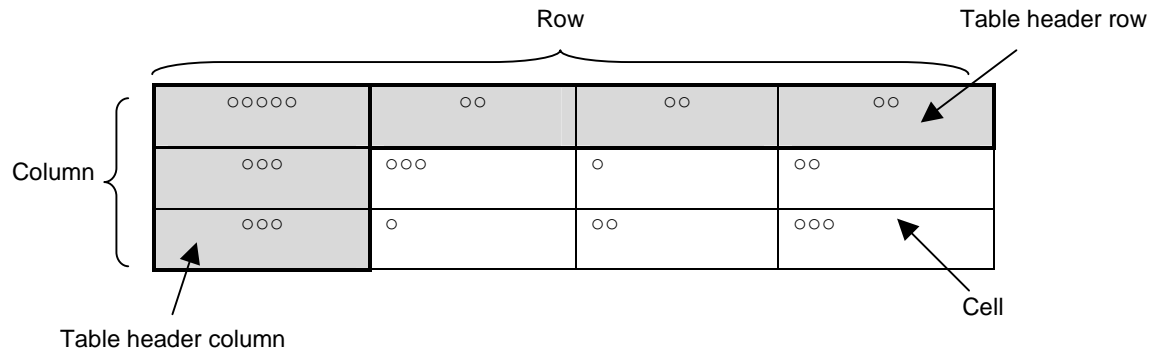


Figure A1.3 — Major Table layout

Table header column <THC> and table header row <THR> should be defined as siblings of table column <TC> and table row <TR> respectively. The table header column and table header row should have the same children as table column and table row respectively, and initially be specified with their background color of light-gray, as shown in figure A1.3.

#### 4.18.5 Multiple strings in table cells

alpha	oo	oo	oo
num	ooo	oo	ooo
ooo	o	oo	ooo

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Figure A1.4 — Multiple strings in table cell

Multiple table cell <MTD> should be defined as siblings of table-cell <TD>, and have its children; row string <RSTR> and column string <CSTR>. The row string includes #PCDATA which are related to row data. The column string includes #PCDATA which are related to column data.

The multiple table cell with the following specification will be rendered as shown at the top-left cell of figure A1.4.

```
<MTD>
  <RSTR IMAGESRC="">alpha</RSTR>
  <CSTR IMAGESRC="">num</CSTR>
</MTD>
```

##### 4.18.5.1 Diagonal line through table

If you wish to draw a diagonal line through a whole table, such as a league match table, specify the diagonal line as the attribute of the element TABLE. One restriction of this designation is that the number of columns and rows to which the diagonal is applied must be the same number.

#### 4.18.6 Word wrapping

It is possible to reduce the font size if the string in a cell is larger than the width of the cell. This is designated using the attribute DesFSize="#f", which indicated that the font size is to be reduced if the cell width is exceeded. "#f" means a linefeed must be inserted to wrap the remainder of the word onto a second line.

"

Add the following specification before ";;;;;;;;;; Position of image area":

```

;;;;;;;;;;;;; graphical method using the Unwin module concept
;;
;;
(define *gutter-margin* 10mm)
(define *default-font-size* 15pt)

(define *a4-width* 210.0mm)
(define *a4-height* 297.0mm)

(define-unit linefeed (* *default-font-size* 1.5))
(declare-initial-value font-size *default-font-size*)
(declare-initial-value line-spacing 1linefeed)

(define _PH_ *a4-height*)
(define _PW_ *a4-width*)
(define _TM_ (* *gutter-margin* (/ _PH_ _PW_)))
(define _BM_ (* 2 _TM_))
(define _LM_ (* 2 _RM_))
(define _RM_ *gutter-margin*)
(define _RW_ (* *default-font-size*
              (ceiling (/ (- *a4-width* (* 3 _RM_)) *default-font-size*))))
(define *linenumber* (ceiling
                      (/ (- (+ (- *a4-height* (* 3 _TM_)) 1linefeed) *default-font-
size*)
                        1linefeed)))
(define _RH_ (+ (* (- *linenumber* 1) 1linefeed) *default-font-size*))

(define-page-model unwin_module_a4_left
  (filling-direction `top-to-bottom)
  (width _PW_)
  (height _PH_)
  (region
    (width _RW_)
    (height _RH_)
    (x-origin (- *a4-width* _RW_ _RM_))
    (y-origin _BM_))
  )

(define-page-model unwin_module_a4_right
  (filling-direction `top-to-bottom)
  (width _PW_)
  (height _PH_)
  (region
    (width _RW_)
    (height _RH_)
    (x-origin _RM_)
    (y-origin _BM_))
  )

```

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## Page 56, Clause 9

Replace existing Table specification with the following specification:

```
;; ===== TABLES =====
;; Specification of table corner rounded style
(declare-characteristic table-corner-rounded
  "UNREGISTERED::Next Solution//Characteristic::table-corner-rounded" "#f")

;; Specification of actual table element
(element TABLE
  (let ((number-of-columns
        (node-list-reduce (node-list-rest (children (current-node)))
          (lambda (cols nd)
            (max cols
              (node-list-length (children nd))))
          0)))
    (make display-group
      space-before: %block-sep%
      space-after: %block-sep%
      start-indent: %body-start-indent%
      (with-mode table-caption-mode (process-first-descendant "CAPTION"))
      (make table
        use: *table-style*
        ;; Replace below designation to above if you wish to round table corner
        ;; use: *corner-rounded-table-style*
        (process-children))))))

(mode table-caption-mode
  (element CAPTION
    (make paragraph
      ;; use: para-style
      quadding: 'center
      font-weight: 'bold
      space-before: %block-sep%
      space-after: %para-sep%
      start-indent: (inherited-start-indent);
      (literal
        (string-append
          "Table "
          (format-number
            (element-number) "1") ". ")))
      (process-children-trim))))

(element CAPTION (empty-sosof)) ; don't show caption inside the table

(element TC (make-column "COLUMN_WIDTH"))
(element THC (make-background-column "COLUMN_WIDTH"))

(element THR
  (make table-row
    use: *background-cell-style*
    (process-children-trim)))
```