

TEST

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QTF

QTF is the native format of Ultimate++ rich texts (formatted texts).

It is byte oriented format. Bytes with values 2-31 are ignored. Other values are interpreted as characters or formatting commands.

Letters (a-zA-Z), numbers (0-9), space (32) and characters

and bytes greater than 127 are guaranteed to be never used as command characters (not even in future versions of QTF). Other characters should be prefixed with escape character ` (reverse apostrophe). Group of characters can be escaped using byte 1. Example:

"\1a[x]\1[* bold]"

Byte 0 represents the end of input sequence.

Dimension units of QTF are dots - one dot is defined as 1/600 of inch.

Colors are described as either number 0-9, with meaning

0	1	2	3	4	5	6	7	8	9
Black	LtGray	White	Red	Green	Blue	LtRed	WhiteGray	LtCyan	Yellow

or letters

b	С	g	k	1	m	0	r	y
Blue	Cyan	Green	Black	LtGray	Magenta	Brown	Red	Yellow

В	C	G	K	L	M	W	R	Y
LtBlue	LtCyan	LtGreen	Gray	WhiteGray	LtMagenta	White	LtRed	LtYellow

or as the RGB value in form

(number.number.number)

where *number* is 0-255.

Form with single *number*

(number)

specifies grays.

Letter

N

used in place of color designates transparent color.

Basic QTF codes

_	Hard-space - space that cannot be divided at the end of line.
&	New paragraph.
-	Tabulator
@\$hex;	Unicode character as hexadecimal number.

Character and paragraph formatting

Character and paragraph formatting starts with

ſ

character followed by **character/paragraph formating** sequence ended with single space character and applies to the text until matching

]

is encountered.

Character/paragraph formating sequence		
/	Italic.	

*	Bold.			
	Underline.			
-	Strikeout.			
С	Capitals.			
*	Superscript.			
,	Subscript.			
d	Dashed underline.			
Т	Non anti aliased font.			
^text^	Hyperlink.			
Itext;	Index entry.			
+number	Font height in dots.			
0	Font height 50 dots (6 points).			
1	Font height 67 dots (8 points).			
2	Font height 84 dots (10 points).			
3	Font height 100 dots (12 points).			
4	Font height 134 dots (16 points).			
5	Font height 167 dots (20 points).			
6	Font height 200 dots (24 points).			
7	Font height 234 dots (28 points).			
8	Font height 300 dots (36 points).			
9	Font height 400 dots (48 points).			
@color	Text color.			
\$color	Text background color.			
Α	Arial font.			
R	Times New Roman font.			
С	Courier font.			
G	Standard GUI font.			
S	Symbol font.			
.number	Font with specified font <i>number</i> .			
!text!	Font with face name equal to <i>text</i> . If such font does not exist on system, Arial is used.			
{charset}	Character set. It can be defined as either single character			
	utf-8			
	0 windows-1250			
	1 windows-1251			
	2 windows-1252 3 windows-1253			
	4 windows-1254 5 windows-1255			
	WIIIUUWS-1233			

	_ utf-8					
	6 windows-1256					
	7 windows-1257					
	A iso-8859-1					
	B iso-8859-2					
	C iso-8859-3					
	D iso-8859-4					
	E iso-8859-5					
	F iso-8859-6					
	G iso-8859-7					
	H iso-8859-8					
	I iso-8859-9					
	J iso-8859-10					
	or as the string designating character set (example: "[{_}}]",					
	"[{windows-1250}]").					
%lang	Language. It is defined in form XX-YY, according to ISO 639 and ISO					
	3166 standards. (example: "[%EN-US]"). "[%00-00 " represents "none" language. As special optimization, %- is equivalent					
	to %00-00 (no language) and					
	%% is equivalent to %EN-US.					
:text:	Paragraph label.					
<	Align paragraph left.					
=	Center paragraph.					
>	Align paragraph right.					
#	Justify paragraph.					
1number	Left margin in dots.					
rnumber	Right margin in dots.					
inumber	Indent in dots.					
pn	Line spacing 1.0.					
ph	Line spacing 1.5.					
pd	Line spacing 2.0.					
Hnumber	Horizontal ruler height (if zero, there is no ruler).					
hcolor	Color of horizontal ruler (default is black).					
Lnumber	Style of horizontal ruler line, 0 - solid color, 1 - dots, 2 - dashes					
bnumber	Space before paragraph in dots.					
anumber	Space after paragraph in dots.					
P	Page break before paragraph.					
k	Keep paragraph on single page.					
K	Keep paragraph on same page as next one.					
Q	Orphan control.					

ntext;	Text to insert before paragraph number.				
mtext;	Text to insert after paragraph number.				
N	Numbering. It is followed by up to 8 characters defining numbering style of each level				
	- Level is not used.				
	1 Numbers, starting with 1.				
	0 Numbers, starting with 0.				
	a Lowercase letters, starting with a.				
	A Uppercase letters, starting with A.				
	Lowercase roman numbers, starting with i.				
	I Uppercase roman numbers, starting with I				
	If after 8 numbering style characters there is a '!' suffix, the reset is performed for those numbering levels that are used. If all levels are not used, reset is performed for the top-level.				
0	Bullet style.				
0_	No bullet.				
00	Bullet style.				
01	Bullet style.				
02	Bullet style.				
03	Bullet style.				
09	Text bullet style.				
tnumber	Default tab size.				
~	Tabulator setting. Can be followed by character designating type of tabulation				
	> Normal tabulation.				
	< Left tabulation.				
	= Centered tabulation.				
	(default is normal) and by filler character				
	and is followed by number specifying tabulator position in dots. The number can be preceded by > - in that case, position is relative to the right side.				
	When followed by ~ ("~~"), clears all current tab settings (including those inherited from paragraph style).				

	NOP separator. In some cases it is needed to separate command code. Example: "[1200;4"
<pre>snumber s"text"</pre>	Paragraph style, either defined by style number, or style name.

Styles

Paragraph styles are defined using normal character/paragraph formatting sequence with

\$\$number,nnumber#uuid:name

instead of text, where

number	Number of style - can be used with s paragraph format command code.
nnumber	Number of style of next paragraph - used by RichText editor when inserting paragraphs.
uuid	32 digit unique hexadecimal identifier of style.
name	Name of style, displayed by editors. Can also be used with s paragraph format command code.

Example:

"[*/+117 \$\$2,0#07143242482611002448121871408047:title]"

Objects

Object plays the role of the single character and is displayed according to its type. It is started with a header in the form

@@format:cx&cy

or

@@format:cx*cy

where

format	Format of objects. This format must be recognized by the application. By default, RichText recognizes the PNG format and <i>iml</i> format (see bellow).
CX	Width of object in dots.

First form with '&' activates "keep aspect ratio" for the object, second form with '*' leaves this option inactive.

Optionally, there can be 3rd number, separated by '/' character. This number represent vertical placement of object, default value 0 means that bottom border of object is aligned with baseline of text.

If header is followed by '`' character, object data are in text format. In that case, object data are terminated with another '`' character. If there needs to be '`' in the text, '`` can be used as escape sequence.

If header is followed by '(', it countains BASE64 encoded binary data, ending with ')'. This is default format for binary data.

If there is no '`' nor '(', header is in binary 7 bit format. Bit 7 of data bytes is always 1, so that actual data bytes are in range 128-255. First byte in range 32-127 ends data sequence. Data are encoded in 7 byte groups, which corresponds to 8 bytes of encoded format. First byte of this 8 bytes block always contains eight bits of following bytes, LSB (that is bit 0) being the eight bit for first byte in block. This format is deprecated.

iml format

iml format is text format of rich object where text data reference existing .iml based Image as pair iml class name:image name. Example of full object definition in iml format:

```
"@@iml:400*400`CtrlImg:exclamation`"
```

Fields

Fields are special elements of text that are evaluated by client code into rich text. QTF format for fields is

{:field_type_id:parameter:}

field_type_id	Type of field. Field types are represented by RichPara::FieldType derived instances and registred using RichPara::Register function.
parameter	Additional string parameter that gets passed to FieldType::Evaluate method

Tables

Table definition starts with

pair, followed by set of numbers separated with

:

Numbers represent ratios of column widths; count of numbers is equivalent to count of columns. Next there is *table/cell formatting sequence* ended with single space character. Cells are separated with

::

characters and another table/cell formating sequence (to setup format for each individual cell). Formating of cells is inherited from previous cells. Table ends with

}}

pair.

Table/cell form	Table/cell formating sequence				
<number< th=""><th>Left margin of table in dots.</th></number<>	Left margin of table in dots.				
>number	Right margin of table in dots.				
Bnumber	Space before table in dots.				
Anumber	Space after table in dots.				
fnumber	Frame thickness in dots. Frame is outer border of table. Default value is 10.				
Fcolor	Color of the frame.				
gnumber	Grid thickness in dots. Grid are lines dividing cells inside table. Default value is 4.				
Gcolor	Color of the grid.				
k	Keep the cell on single page.				
K	Keep the table on single page.				
~	Sets grid and frame thickness to zero. Useful when using tables to organize text.				
hnumber	Number of header rows. Header rows are repeated at the beginning of every page.				
٨	Cell aligns to top.				
=	Cell aligns to center (vertical). Default.				
V	Cell aligns to bottom.				
lnumber/number lnumber l/number	Sets left cell border (first <i>number</i>) and margin in dots. If any of numbers is missing, sets only the one present. Default is border: 0, margin: 25.				
rnumber/number rnumber r/number	Sets right cell border (first <i>number</i>) and margin in dots. If any of numbers is missing, sets only the one present. Default is border: 0, margin: 25.				
tnumber/number tnumber	Sets top cell border (first <i>number</i>) and margin in dots. If any of				

t/number	numbers is missing, sets only the one present. Default is border: 0, margin: 15.
bnumber/number bnumber b/number	Sets bottom cell border (first <i>number</i>) and margin in dots. If any of numbers is missing, sets only the one present. Default is border: 0, margin: 15.
anumber/number anumber a/number	Sets all cell borders (first <i>number</i>) and margins in dots. If any of numbers is missing, sets only the one present.
@color	Cell background color. Default is White.
Rcolor	Cell border color. Default is Black.
!	Resets cell formatting to default values.
Hnumber	Sets the minimal height of cell (and therefore also of row) in dots.
-number	Horizontal cell span.
number	Vertical cell span.
;	NOP separator. In some cases it helps to separate command code.

Note: There is also legacy support for old table format (from previous QTF version) that is based on ++ pair as table start/stop and | | -- to divide cells/lines.

Header and Footer

Global text header is defined using <code>^Hqtf_text^^</code>, footer <code>^Fqtf_text^^</code>, where <code>Hqtf_text</code> is complete embeded QTF representing header/footer. This QTF can contain field <code>{:VALUE:PAGENUMBER:}</code> to represent page number and <code>{:VALUE:PAGECOUNT:}</code> to represent total number of pages.

Examples

```
"Normal [* bold] [/ italic] [_ underline] [` superscript] [, subscript]"

Normal bold italic underline superscript subscript
```

```
"`[ `] \1[escaped]\1 [* bold]"
[][escaped] bold
```

```
"[A Arial (Sans-Serif)] [R Times New Roman (Serif)] [C Courier (Monospace)]"

Arial (Sans-Serif) Times New Roman (Serif) Courier (Monospace)
```

```
"[0 6pt ][1 8pt ][2 10pt ][3 12pt ][4 16pt ][5 20pt ][6 24pt ][7 28pt ][8 36pt ][9 48pt ]"

6pt 8pt 10pt 12pt 16pt 20pt 24pt 28pt 36pt 48pt 

Get 8pt 10pt 12pt 16pt 20pt 24pt 28pt 36pt 48pt 

Get 8pt 10pt 12pt 16pt 20pt 24pt 28pt 36pt 48pt ]
```

```
"[!Tahoma! Tahoma]"
```

Tahoma

"[+500 500dots]"

500dots

"[@4 Green text] [\$(255.220.200) Pink background]"

Green text Pink background

"[%EN-US English language] [%CS-CZ Czech language]"

English language Czech language

"[^upp.sf.net^ Hyperlink] [Icompiler, linker; Index entry]"

Hyperlink Index entry

"[:label: Labeled paragraph]"

Labeled paragraph

"[< Left paragraph alignment]"

Left paragraph alignment

"[= Center paragraph alignment]"

Center paragraph alignment

"[> Right paragraph alignment]"

Right paragraph alignment

"[# Justify alignment. Just some text to demosntrate it... Just some text to demonstrate it...]"

Justify alignment. Just some text to demosntrate it... Just some text to demonstrate it... Just some text to demonstrate it...

"[11000 Left margin 1000dots]"

Left margin 1000dots

"[i1000 Indent 1000 dots.Just some text to demonstrate it... Just some text to demonstrate it...]" $\label{eq:constraint}$

Indent 1000 dots. Just some text to demonstrate it... Just some text to demonstrate it...

"[r1000 Right margin 1000 dots.Just some text to demonstrate it... Just some text to demonstrate it...]"

Right margin 1000 dots. Just some text to demonstrate it... Just some text to demonstrate it...

"Paragraph&[b200 Before 200dots]" Paragraph Before 200dots "[a200 After 200dots]&Paragraph" After 200dots Paragraph "[i200 [00 bullet&][01 bullet&][02 bullet&][03 bullet]]" bullet bullet 0 bullet bullet "[09i500 text bullet-|Just some text to demonstrate it... Just some text to demonstrate it...Just some text to demonstrate it... Just some text to demonstrate it...]' text bullet Just some text to demonstrate it... Just some text to demonstrate it...Just some text to demonstrate it... Just some text to demonstrate it... "[09i200 [N1m.; -|level 1&][N1a -|level 2&][N1a -|level 2&][N1 -|level 1&][N1a -|level 2]]" 1. level 1 1.a level 2 1.b level 2 2 level 1 level 2 "[~300~=.2000~>-3000 -|Normal tab-|Centered tab-|Right tab]" Normal tab Centered tab Right tab "{{1:2 A1||A2||B1||B2}}" **A1** A2 **B1** B2 "{{2:1G4g100F5f50 A1:: A2:: B1:: B2}}" A2 **A1** B2 "{{1:2 A1::140/60R6@3 A2::! B1:: B2}}" **A1** В1 B2 "{{1:1:1|2 A1::-2 A2:: A3:: B1:: B2:: B3}}"

A1	A2	
AT	B2	B3

"{{1:2 A1:: A2:: B1:: {{1:2 a1:: a2:: a1:: a2}}}}"				
A1	A2			
D1	a1	a2		
B1	a1	a2		



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