Summary of Grade 1 and 2 Braille

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1 Braille Alphabets

The following is list of TEX macros and Braille symbols contained in `braille.sty`. The user command `\braille{}` converts sequence of tags to Braille symbols. A tag can be one character which appears as is, or multi characters which must be enclosed with {}. For each tag, a predefined TeX macro is called to print out the Braille symbols. For example, `\braille{a{the}b}` prints out Braille symbols for *a*, *the*, and *b*.

As usual, TEX collapses multiple spaces to single space, and ignores spaces at the end of line, and tabs and newlines everywhere. This means that for multi-line paragraph, there must be at least one space after newline (`\n`).

⠁	a 1
⠃	b 2
⠉	c 3
⠙	d 4
⠑	e 5
⠋	f 6
⠛	g 7
⠓	h 8
⠊	i 9
⠚	j 0
⠅	k
⠇	l
⠍	m
⠝	n
⠕	o

⠏	p
⠟	q
⠗	r
⠎	s
⠞	t
⠥	u
⠧	v
⠺	w
⠭	x
⠽	y
⠵	z
⠯	{and}
⠜	{ar}
⠼	{ble}
⠡	{ch}

⠫	{ed}
⠢	{en}
⠻	{er}
⠿	{for}
⠣	{gh}
⠔	{in}
⠬	{ing}
⠔⠖	{into}
⠷	{of}
⠳	{ou}
⠪	{ow}
⠩	{sh}
⠹	{th}
⠮	{the}
⠱	{wh}
⠾	{with}

⠂	, {ea}
⠆	; {bb} {be}
⠒	: {cc} {con}
⠲	. $ {dd} {dis}
⠖	! {ff} {to}
⠶	( ) {gg} {were}
⠦	{``} ? {his}
⠔⠔	*
⠴	{''} {by} {was}
⠄	'
⠤	- {com}
⠌	/ {st}
⠠⠶	[
⠶⠄	]
⠠⠦	{.`}
⠴⠄	{'.}
⠒⠏	{percent}

Double quotes are specified by the usual TEX notation of 2 consecutive single quotes (`{``}...{''}`). Single quotes are specified by 2 character notation (`{.`}...{'.}`) similar to actual Braille code. This is because apostrophe (') and closing single quote (') are identical in print and in ASCII text. Also, % must be spelled out, because it is an escape character for comment in TEX.

2 Prefix Indicator

⠠	{Capital}
⠠⠠	{Upper}
⠨	{Italic}

⠼	{Number}
⠰	{Letter}

3 Contraction for Part of Word

Anywhere	
{and}	and
{ar}	ar
{ch}	ch
{ed}	ed
{en}	en
{er}	er
{for}	for
{gh}	gh
{in}	in

Anywhere	
{of}	of
{ou}	ou
{ow}	ow
{sh}	sh
{st}	st
{th}	th
{the}	the
{wh}	wh
{with}	with

Beginning	
{be}	be
{com}	com
{con}	con
{dis}	dis

Middle	
{bb}	bb
{ble}	ble
{cc}	cc
{dd}	dd
{ea}	ea
{ff}	ff
{gg}	gg
{ing}	ing

End	
{ble}	ble
{ing}	ing

4 Final Letter Contraction for Middle or End of Word

Prefix ⠨	
d	ound
e	ance
n	sion
s	less
t	ount

Prefix ⠰	
e	ence
g	ong
l	ful
n	tion
s	ness
t	ment
y	ity

Prefix ⠠	
n	ation
y	ally

5 Initial Letter Contraction for Whole or Part of Word

Prefix ⠘	
{the}	these
{th}	those
u	upon
{wh}	whose
w	word

Prefix ⠸	
c	cannot
h	had
m	many
s	spirit
{the}	their
w	world

Prefix ⠐	
{ch}	character
d	day
e	ever
f	father
h	here
k	know
l	lord
m	mother
n	name
o	one
{ou}	ought

Prefix ⠐	
p	part
q	question
r	right
s	some
{the}	there
{th}	through
t	time
u	under
{wh}	where
w	work
y	young

6 Abbreviation for Whole Word

ab	about
abv	above
ac	according
acr	across
af	after
afn	afternoon
afw	afterward
ag	again
ag{st}	against
alm	almost
alr	already
al	also
al{th}	although
alt	altogether
alw	always
{and}	and
z	as
{be}	be
{be}c	because
{be}f	before
{be}h	behind
{be}l	below
{be}n	beneath
{be}s	beside
{be}t	between
{be}y	beyond
bl	blind
brl	braille
b	but
{by}	by

c	can
{ch}	child
{ch}n	children
{con}cv	conceive
{con}cvg	conceiving
cd	could
dcv	deceive
dcvg	deceiving
dcl	declare
dclg	declaring
d	do
ei	either
{en}	enough
e	every
f{st}	first
{for}	for
fr	friend
f	from
g	go
gd	good
grt	great
h	have
h{er}f	herself
hm	him
hmf	himself
{his}	his
imm	immediate
{in}	in
{into}	into
x	it

xs	its
xf	itself
j	just
k	knowledge
lr	letter
l	like
ll	little
m	more
m{ch}	much
m{st}	must
myf	myself
nec	necessary
nei	neither
n	not
o'c	o'clock
{of}	of
{one}f	oneself
{ou}rvs	ourselves
{ou}	out
pd	paid
p	people
p{er}cv	perceive
p{er}cvg	perceiving
p{er}h	perhaps
qk	quick
q	quite
r	rather
rcv	receive
rcvg	receiving
rjc	rejoice

rjcg	rejoicing
sd	said
{sh}	shall
{sh}d	should
s	so
{st}	still
s{ch}	such
t	that
{the}	the
{the}mvs	themselves
{th}	this
{th}yf	thyself
{to}	to
td	today
tgr	together
tm	tomorrow
tn	tonight
u	us
v	very
{was}	was
{were}	were
{wh}	which
w	will
{with}	with
wd	would
y	you
yr	your
yrf	yourself
yrvs	yourselves

Abbreviation `{in}` cannot touch any other word or punctuation. And, abbreviations `{be}`, `{enough}`, `{his}` `{was}`, and `{were}` cannot touch punctuations.

Abbreviations `{by}`, `{into}`, and `{to}` must adjoin next word without a space. But, abbreviations `{and}`, `{for}`, `{of}`, `{the}`, `{with}`, and letter `{a}` can join one another if they occur as consecutive words.

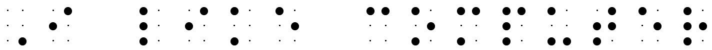
7 List of All Tags

about	before	day	gg	letter	ount	so	under
above	behind	dd	gh	like	ourselves	some	upon
according	below	deceive	go	little	out	spirit	us
across	beneath	deceiving	good	lord	ow	st	very
after	beside	declare	great	many	paid	still	was
afternoon	between	declaring	had	ment	part	such	were
afterward	beyond	dis	have	more	people	th	wh
again	ble	do	here	mother	perceive	that	where
against	blind	ea	herself	much	perceiving	the	which
ally	braille	ed	him	must	perhaps	their	whose
almost	but	either	himself	myself	question	themselves	will
already	by	en	his	name	quick	there	with
also	can	ence	immediate	necessary	quite	these	word
although	cannot	enough	in	neither	rather	this	work
altogether	cc	er	ing	ness	receive	those	world
always	ch	ever	into	not	receiving	through	would
ance	character	every	it	o'clock	rejoice	thyself	you
and	child	father	its	of	rejoicing	time	young
ar	children	ff	itself	one	right	tion	your
as	com	first	ity	oneself	said	to	yourself
ation	con	for	just	ong	sh	today	yourselves
bb	conceive	friend	know	ou	shall	together	
be	conceiving	from	knowledge	ought	should	tomorrow	
because	could	ful	less	ound	sion	tonight	

8 Examples

- I like computer

  Grade 1: I like computer

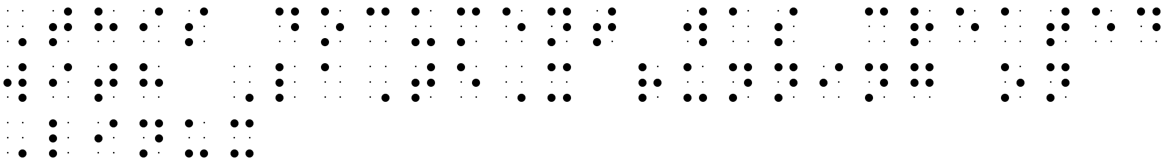
  

  Grade 2: I {like} {com}put{er}

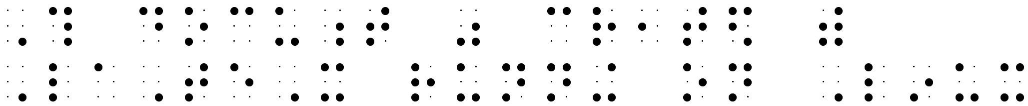
  

- This document was created with LaTeX running on Linux

  Grade 1: This document was created with LaTeX running on Linux

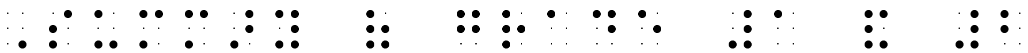
  

  Grade 2: {Capital}{this} docu{ment} {was} cr{ea}t{ed} {with} LaTeX runn{ing} on L{in}ux

- Summary of grade 1 and 2 braille

  Grade 2: Summ{ar}y {of} grade {Number}1 {and} {Number}2 {braille}

- William Park

  Grade 1: William Park

- September 1998

  Grade 1: September {Number}1998

- I do not have to know how to read braille in order to produce beautifully typeset braille documents. All I have to do is parse ordinary text into tags for which TeX macros exist. TeX will, then, print out predefined symbols associated with each tags.

  Grade 2: I {do} {not} {have} {to}{know} h{ow} {to}r{ea}d {braille} {in} ord{er} {to}produce b{ea}uti{ful}ly typeset {braille} docu{ment}s. All I {have} {to}{do} is p{ar}se ord{in}{ar}y text {into}tags {for} {which} TeX macros exist. TeX {will}, {the}n, pr{in}t {out} pr{ed}ef{in}{ed} symbols associat{ed} {with} ea{ch} tags.