

The Danish braille 2022

What is new and what has changed compared to the previous version from 1993/2004?

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1. Introduction Den

Danske Punktskrift 2022 has been drawn up and completed during 2021 and 2022 and approved by the Danish Punctuation Board in the summer of 2022.

DDP 2022 is based on and mostly a continuation, expansion and modernization of the version of the Braille script used in Denmark, albeit with a number of clarifications and additions.

DDP 2022 is now available in digital form. It can therefore be immediately reproduced and distributed in desired media and formats, in braille on paper, for reading via electronic media such as a braille display on a notebook or in printed form with a visual reproduction of the dot patterns.

Reference is made in this publication to chapters and sections in DDP 2022, where details and an overall review of the system, both the rules which have been carried over from the 1993/2004 edition and changes and additions, are reproduced systematically.

DDP 2022 is not just written for teachers, educators and users, but also for other resource persons who can benefit from the publication. It can promote understanding of the background and power of this important tool that Braille is, as it can improve practical and cultural opportunities for visually impaired people of all ages.

It therefore begins with a series of background information on the emergence of braille, its advantages and possibilities, the rationale behind abbreviated braille as well as the differences and parallel characteristics of 6- and 8-point braille. The mention of the braille in international legal documents of a human rights nature, such as the disability convention, also appears in the introduction.

2. Comments on individual basic systematic steps taken There has been a change in the order of bullet points from no. 51-63, i.e. the characters that are not included in the letters a-j with the addition of the dots 3, 36, 6 and the letters lowered. (see chapter 1 about this). However, this change is only of a purely systematic nature.

Capital letter (Capital/capital letters) now follows the printed text one-to-one so that the starting point for a bullet point is that it represents a "small" letter (minuscule), unless it is indicated as a capital letter with a prefixed dot 6 or there with preceded by the points 456, it is indicated that all letters in the word in question are written in capital letters. (see chapter 7, sections 7.1 and 7.2).

The 29 letters that make up the Danish alphabet are represented by the known and thus unchanged dot patterns (cf. chapter 3).

Some other letters have a special appearance in braille, but are then written in abbreviated text using a prefix in front of the character that represents the letter itself:

The prefix can be a resolution character, item 56 \ddot{y} , or an accent/foreign letter character item 5 \ddot{y} .

In the unabridged text (full text), the resolution sign for the four characters mentioned below can be omitted, as the dot here must be understood in its basic meaning.

See chapters 7.3 and 7.5 and appendix 4 about this.

In the case of:

With prefixed resolution sign, point 56:

ü \ddot{y} (point 1256)

To \ddot{y} (point 12356)

It is \ddot{y} (point 123456)

And \ddot{y} (point 2346)

With prefixed character for foreign letter, point 5:

he $\ddot{y}\ddot{y}$ (point: 5, 246)

ä $\ddot{y}\ddot{y}$ (point: 5, 345)

3. Abbreviations

3.1 Repeal of small abbreviation DDP 2022

contains an abbreviation system which differs from previous editions in that the small abbreviation has been abolished. This has been adopted after thorough discussion with FDDB and visual education professionals.

3.2 Previously adopted abbreviations A single

abbreviation has been removed: Abbreviation for the word "meanwhile" has been cancelled. ii has, however, acquired a new meaning, see below.

The word "was", which in the previously existing system was represented by items 3-6, has been changed and has thus been given a new representation, item 3456.

4. Abbreviations 63 new

abbreviations have been introduced. In the 1993/2004 edition there were 146 word abbreviations, all of which have been preserved (however, in the case of a single word changed, see above). A total of 209 word abbreviations have now been adopted (see chapter 4).

The new word abbreviations contain individual verbs and a number of nouns in their various conjugations (indefinite and definite singular, indefinite and definite plural) as well as in the genitive (possessive case) with added s.

The genitive form is not specified specifically, as its use applies to all forms of the noun.

These are the following new abbreviations, all of which consist of two or more characters:

A

occupation	ÿÿÿÿ	(dot: 1, 12, 1456)
worked	ÿÿÿÿÿÿ (dot: 1, 12, 1456, 1456)	
works	ÿÿÿÿ	(point: 1, 12, 23456)
the work	ÿÿÿÿ	(point: 1, 12, 2346)

B

mean	ÿÿÿÿ	(dot: 12, 2345, 1456)
means	ÿÿÿÿ	(point: 12, 2345, 23456)

D

Denmark	ÿÿÿÿÿÿ	(dot: 6, 145, 1345, 13)
Denmark's	ÿÿÿÿÿÿÿÿ (point: 6, 145, 1345, 13, 234)	
danish	ÿÿÿÿ	(point: 145, 123456)
Danish	ÿÿÿÿ	(point: 145, 123456, 15)

and

since	ÿÿÿÿ	(point: 1356, 234)
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F

actually	ŷŷŷŷ	(dot: 124, 13, 2345)
past	ŷŷŷ	(point: 124, 12)
tell	ŷŷŷ	(point: 124, 1256)
Narrator	ŷŷŷŷ	(point: 124, 2345, 156)

G

gang	ŷŷŷ	(point: 1245, 1245)
times	ŷŷŷ	(point: 1245, 12456)
did	ŷŷŷ	(point: 1245, 1456)

H

all	ŷŷŷŷ	(point: 125, 123, 15)
rather	ŷŷŷŷ	(point: 125, 123, 1235)
help	ŷŷŷŷ	(point: 125, 1234, 15)
helps	ŷŷŷŷ	(point: 125, 1234, 156)
which ones	ŷŷŷŷ	(dot: 2456, 13, 15)
Which one	ŷŷŷŷ	(dot: 2456, 13, 126)
which	ŷŷŷŷ	(dot: 2456, 13, 346)

.

No	ŷŷŷ	(point: 24, 126)
nothing	ŷŷŷ	(point: 24, 24)

K

woman	ŷŷŷŷ	(dot: 13, 1236, 1456)
the woman	ŷŷŷŷ	(point 13, 1236, 12346)
women	ŷŷŷŷ	(point 13, 1236, 23456)
the women	ŷŷŷŷŷ	(point 13, 1236, 23456, 1246)

L

just	ÿÿÿÿ	(point: 123, 1245)
longing	ÿÿÿÿ	(point: 123, 12456)
long	ÿÿÿÿÿ	(dot: 123, 1245, 2345)
little	ÿÿÿÿ	(point: 123, 2345)

M

human being	ÿÿÿÿÿ	(dot: 146, 123456, 15)
people	ÿÿÿÿÿ	(point: 146, 123456, 156)
the humans	ÿÿÿÿÿÿ	(point 146, 123456, 15, 1246)
the human being	ÿÿÿÿÿ	(point: 146, 123456, 346)
possibility	ÿÿÿÿÿ	(point: 134, 123, 125)
the possibility	ÿÿÿÿÿÿ	(point: 134, 123, 125, 126)
opportunities	ÿÿÿÿÿÿ	(point: 134, 123, 125, 156)
the possibilities	ÿÿÿÿÿÿÿ	(dot: 134, 123, 125, 156, 1246)

N

natural	ÿÿÿÿÿ	(point: 1345, 2345, 123)
naturally	ÿÿÿÿÿÿ	(dot: 1345, 2345, 123, 2345)
ever	ÿÿÿÿÿ	(point: 1345, 234 1456)
next	ÿÿÿÿ	(point: 1345, 1256)
almost	ÿÿÿÿ	(point: 1345, 126)

O

organisation	ÿÿÿÿÿ	(dot: 1346, 1245, 234)
the organization	ÿÿÿÿÿÿ	(dot: 1346, 1245, 234, 126)
organizations	ÿÿÿÿÿÿ	(dot: 1346, 1245, 234, 156)
the organizations	ÿÿÿÿÿÿÿ	(dot: 1346, 1245, 234, 156, 1246)

P

Braille	⠠⠃⠗⠊⠇⠇⠑	(point: 1234, 1345, 123456)
problem	⠠⠏⠗⠔⠇⠑⠇	(point: 1234, 12)
the problem	⠠⠏⠗⠔⠇⠑⠇	(point: 1234, 12, 346)
problems	⠠⠏⠗⠔⠇⠑⠇	(point: 1234, 12, 156)
the problems	⠠⠏⠗⠔⠇⠑⠇	(point: 1234, 12, 156 1246)

S

simultaneously	⠠⠎⠊⠇⠗⠏⠁⠗⠊⠇⠏⠏⠏	(dot: 234, 134, 2345)
questions	⠠⠗⠗⠔⠗⠏⠏⠏	(point: 234, 1234, 134)
the question	⠠⠗⠗⠔⠗⠏⠏⠏	(dot: 234, 1234, 134, 346)
the questions	⠠⠗⠗⠔⠗⠏⠏⠏	(dot: 234, 1234, 134, 1246)
still	⠠⠎⠊⠇⠗	(point: 1356, 1245)

T

early	⠠⠗⠗⠔⠗⠏⠏	(dot: 2345, 145, 123)
early	⠠⠗⠗⠔⠗⠏⠏	(dot: 2345, 145, 123, 12456)
earliest	⠠⠗⠗⠔⠗⠏⠏	(dot: 2345, 145, 123, 1356)
earlier	⠠⠗⠗⠔⠗⠏⠏	(point: 2345, 145, 123 12356)
coincidence	⠠⠗⠗⠔⠗	(point: 2345, 124)

IN

difficult	⠠⠗⠗⠔⠗	(point: 1236, 123456)
difficult	⠠⠗⠗⠔⠗	(point: 1236, 123456, 15)
difficult	⠠⠗⠗⠔⠗	(point: 1236, 123456, 2345)
knew	⠠⠗⠗⠔⠗	(point: 1236, 1356, 15)
really	⠠⠗⠗⠔⠗	(point: 1236, 1235, 13)

IN

www	⠠⠗⠗⠔⠗	(point: 2456, 2456, 2456)
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Island moment

ÿÿÿÿ

(point: 246, 245, 12)

5. Part-of-word abbreviations 8 new

part-of-word abbreviations have been introduced. Previously there were 20 part-of-word abbreviations (10 single characters as part-of-word abbreviations and 10 other allowed part-of-word abbreviations). Thus, 28 word part abbreviations have now been adopted (see chapter 5, section 5.1 and 5.2).

The new word part abbreviations are the following:

Danish	ÿÿÿ	(point: 145, 123456)
Gang	ÿÿÿ	(point: 1245, 1245)
help	ÿÿÿÿ	(point: 125, 1234, 15)
woman	ÿÿÿÿ	(dot: 13, 1236, 1456)
human being	ÿÿÿÿ	(dot: 146, 123456, 15)
organisation	ÿÿÿÿ	(dot: 1346, 1245, 234)
problem	ÿÿÿ	(point: 1234, 12)
really	ÿÿÿÿ	(dot: 1236, 1235, 13)

For part-of-word abbreviations consisting of more than one character, the rule applies that these may only be used at the beginning of words.

6. Specially adopted abbreviations in non-fiction

Under special conditions, specific non-approved abbreviations may be used in non-technical literature supplied by the manufacturer of braille (see chapter 13).

7. Auxiliary characters

A number of auxiliary characters are represented with new dot patterns (see chapter 7.)

The following auxiliary characters are used in DDP 2022:

(new) Character for capital letter	ÿÿ	(point 6)
Characters for a series of uppercase letters	ÿÿ	(point 456)
(new) Resolution sign	ÿÿ	(point 56)
(new) Character for highlighting letters or text start and end	ÿÿ	(point 46)
Character for foreign letter / accent character	ÿÿ	(point 5)
Signs for foreign languages in Danish texts start and end	ÿÿÿÿ	(point: 5, 2)
Number sign	ÿÿ	(point 3456)
Graphic sign	ÿÿ	(point 45)

8. Symbols containing a graphic sign The content of the supplement to DDP 1993 published in 2004 has been incorporated into the current publication, including the use of a graphic sign $\ddot{y}\ddot{y}$ (point 45).

This sign is a so-called prefix, which has been used continuously from 1993 onwards based on the development and use of a number of signs in the printed text. With the help of the graphic sign, the meaning of dot patterns (letters and other characters in Danish braille) is changed and thus gives the sign a new meaning.

The list below is arranged according to the occurrence of the signs in chapter 2, where the 63 punctuation marks are listed systematically (see DDP 2022 section 7.8).

The following characters are defined using prefix graphic character, item 45 (22 characters):

(Note: All adopted signs with a prefixed graphic sign are reproduced here. A number of these were adopted and specified in additions to the Danish Braille 2004, and these have thus been in force since then.

To create a complete overview, all characters are included, and the characters adopted in the most recent revision (11 items) are marked with (new).

@snabela:	$\ddot{y}\ddot{y}$	(point: 45, 1)
copyright: ©	$\ddot{y}\ddot{y}$	(point: 45, 14)
(now) dollartegn: \$	$\ddot{y}\ddot{y}$	(point: 45, 145)
euro sign: €	$\ddot{y}\ddot{y}$	(point: 45, 15)
pound sign: £	$\ddot{y}\ddot{y}$	(point: 45, 123)
less than/pointed parenthesis begin: <	$\ddot{y}\ddot{y}$	(point: 45, 134)
Tuborg clamp end/right tuborg: }	$\ddot{y}\ddot{y}$	(point: 45, 135)
Registered trademark: ®	$\ddot{y}\ddot{y}$	(point: 45, 1235)
Greater than Point parentheses end: >	$\ddot{y}\ddot{y}$	(point: 45, 234)
(new) root character	$\ddot{y}\ddot{y}$	(point 45, 146)
tuborg clamp start/left tuborg: {	$\ddot{y}\ddot{y}$	(point: 45, 246)
(new) Tilde: ~	$\ddot{y}\ddot{y}$	(point: 45, 23)

(new) division sign: ÷	ÿÿÿ	(Point: 45, 256)
(new) plus sign: +	ÿÿÿ	(point 45, 235)
(new) Equal sign: =	ÿÿÿ	(point: 45, 2356)
(new) Multiplication sign/multiplication sign: x	ÿÿÿ	(point: 45, 35)
(new) Degree sign: °	ÿÿÿ	(point: 45, 356)
backslash: \	ÿÿÿ	(point: 45, 34)
(new) power sign	ÿÿÿ	(point 45, 346)
number sign/number sign/garden gate: #	ÿÿÿ	(point: 45, 3456)
bullet: •	ÿÿÿ	(point: 45, 3)
underscore / underline: _	ÿÿÿ	(point: 45, 36)
(new) selection of emojis start and end:	ÿÿÿ	(point: 45, 45)
(now) vector:	ÿÿÿ	(point: 45, 56)

9. The 8-point code

The 8-point code is incorporated in DDP 2022. It can be requested as a separate appendix to the publication. For editorial reasons, it has been omitted to include this 8-point table in DDP 2022, partly because production on paper will involve production challenges.

Maximum parallelism has been created between 6 and 8 points in terms of character representation. It is therefore desirable that users of one system (the 6- or 8-point code) should be able to read, write and decode the other system with ease.

10. Guidelines for formatting braille Guidelines are given for formatting braille both in digital form (represented on a braille display) and on paper.

These guidelines specify norms for the following conditions:

- . Margin
- . Braille paper thickness
- . Line length
- . Wrap around
- . The top and bottom margin
- . Number of lines per page
- . Page number in Braille
- . Page number in printed text
- . New chapters
- . Headings of chapters and main sections
- . Subsection
- . New sections in fiction texts
- . To note
- . Tables of contents
- . Keyword registers
- . Tables and layouts