Braille Patterns
Range: 2800–28FF

This file contains an excerpt from the character code tables and list of character names for
The Unicode Standard, Version 12.1

This file may be changed at any time without notice to reflect errata or other updates to the Unicode Standard.
See http://www.unicode.org/errata/ for an up-to-date list of errata.

See http://www.unicode.org/charts/ for access to a complete list of the latest character code charts.
See http://www.unicode.org/charts/PDF/Unicode-12.1/ for charts showing only the characters added in Unicode 12.1.
See http://www.unicode.org/Public/12.1.0/charts/ for a complete archived file of character code charts for Unicode 12.1.

Disclaimer
These charts are provided as the online reference to the character contents of the Unicode Standard, Version 12.1 but do not provide all the information needed to fully support individual scripts using the Unicode Standard. For a complete understanding of the use of the characters contained in this file, please consult the appropriate sections of The Unicode Standard, Version 12.1, online at http://www.unicode.org/versions/Unicode12.1.0/, as well as Unicode Standard Annexes #9, #11, #14, #15, #24, #29, #31, #34, #38, #41, #42, #44, #45, and #50, the other Unicode Technical Reports and Standards, and the Unicode Character Database, which are available online.

See http://www.unicode.org/ucd/ and http://www.unicode.org/reports/

A thorough understanding of the information contained in these additional sources is required for a successful implementation.

Fonts
The shapes of the reference glyphs used in these code charts are not prescriptive. Considerable variation is to be expected in actual fonts. The particular fonts used in these charts were provided to the Unicode Consortium by a number of different font designers, who own the rights to the fonts.


Terms of Use
You may freely use these code charts for personal or internal business uses only. You may not incorporate them either wholly or in part into any product or publication, or otherwise distribute them without express written permission from the Unicode Consortium. However, you may provide links to these charts.

The fonts and font data used in production of these code charts may NOT be extracted, or used in any other way in any product or publication, without permission or license granted by the typeface owner(s).

The Unicode Consortium is not liable for errors or omissions in this file or the standard itself. Information on characters added to the Unicode Standard since the publication of the most recent version of the Unicode Standard, as well as on characters currently being considered for addition to the Unicode Standard can be found on the Unicode web site.


Copyright © 1991-2019 Unicode, Inc. All rights reserved.
When braille patterns are punched, the filled circles shown here correspond to punch impression.

**Braille patterns**

<table>
<thead>
<tr>
<th>U+2800</th>
<th>BRAILLE PATTERN BLANK</th>
</tr>
</thead>
<tbody>
<tr>
<td>U+2801</td>
<td>BRAILLE PATTERN DOTS-1</td>
</tr>
<tr>
<td>U+2802</td>
<td>BRAILLE PATTERN DOTS-2</td>
</tr>
<tr>
<td>U+2803</td>
<td>BRAILLE PATTERN DOTS-12</td>
</tr>
<tr>
<td>U+2804</td>
<td>BRAILLE PATTERN DOTS-3</td>
</tr>
<tr>
<td>U+2805</td>
<td>BRAILLE PATTERN DOTS-13</td>
</tr>
<tr>
<td>U+2806</td>
<td>BRAILLE PATTERN DOTS-23</td>
</tr>
<tr>
<td>U+2807</td>
<td>BRAILLE PATTERN DOTS-123</td>
</tr>
<tr>
<td>U+2808</td>
<td>BRAILLE PATTERN DOTS-4</td>
</tr>
<tr>
<td>U+2809</td>
<td>BRAILLE PATTERN DOTS-14</td>
</tr>
<tr>
<td>U+280A</td>
<td>BRAILLE PATTERN DOTS-24</td>
</tr>
<tr>
<td>U+280B</td>
<td>BRAILLE PATTERN DOTS-124</td>
</tr>
<tr>
<td>U+280C</td>
<td>BRAILLE PATTERN DOTS-34</td>
</tr>
<tr>
<td>U+280D</td>
<td>BRAILLE PATTERN DOTS-134</td>
</tr>
<tr>
<td>U+280E</td>
<td>BRAILLE PATTERN DOTS-234</td>
</tr>
<tr>
<td>U+280F</td>
<td>BRAILLE PATTERN DOTS-1234</td>
</tr>
<tr>
<td>U+2810</td>
<td>BRAILLE PATTERN DOTS-5</td>
</tr>
<tr>
<td>U+2811</td>
<td>BRAILLE PATTERN DOTS-15</td>
</tr>
<tr>
<td>U+2812</td>
<td>BRAILLE PATTERN DOTS-25</td>
</tr>
<tr>
<td>U+2813</td>
<td>BRAILLE PATTERN DOTS-125</td>
</tr>
<tr>
<td>U+2814</td>
<td>BRAILLE PATTERN DOTS-35</td>
</tr>
<tr>
<td>U+2815</td>
<td>BRAILLE PATTERN DOTS-135</td>
</tr>
<tr>
<td>U+2816</td>
<td>BRAILLE PATTERN DOTS-235</td>
</tr>
<tr>
<td>U+2817</td>
<td>BRAILLE PATTERN DOTS-1235</td>
</tr>
<tr>
<td>U+2818</td>
<td>BRAILLE PATTERN DOTS-45</td>
</tr>
<tr>
<td>U+2819</td>
<td>BRAILLE PATTERN DOTS-145</td>
</tr>
<tr>
<td>U+281A</td>
<td>BRAILLE PATTERN DOTS-245</td>
</tr>
<tr>
<td>U+281B</td>
<td>BRAILLE PATTERN DOTS-1245</td>
</tr>
<tr>
<td>U+281C</td>
<td>BRAILLE PATTERN DOTS-345</td>
</tr>
<tr>
<td>U+281D</td>
<td>BRAILLE PATTERN DOTS-1345</td>
</tr>
<tr>
<td>U+281E</td>
<td>BRAILLE PATTERN DOTS-2345</td>
</tr>
<tr>
<td>U+281F</td>
<td>BRAILLE PATTERN DOTS-12345</td>
</tr>
<tr>
<td>U+2820</td>
<td>BRAILLE PATTERN DOTS-6</td>
</tr>
<tr>
<td>U+2821</td>
<td>BRAILLE PATTERN DOTS-16</td>
</tr>
<tr>
<td>U+2822</td>
<td>BRAILLE PATTERN DOTS-26</td>
</tr>
<tr>
<td>U+2823</td>
<td>BRAILLE PATTERN DOTS-126</td>
</tr>
<tr>
<td>U+2824</td>
<td>BRAILLE PATTERN DOTS-36</td>
</tr>
<tr>
<td>U+2825</td>
<td>BRAILLE PATTERN DOTS-136</td>
</tr>
<tr>
<td>U+2826</td>
<td>BRAILLE PATTERN DOTS-236</td>
</tr>
<tr>
<td>U+2827</td>
<td>BRAILLE PATTERN DOTS-1236</td>
</tr>
<tr>
<td>U+2828</td>
<td>BRAILLE PATTERN DOTS-46</td>
</tr>
<tr>
<td>U+2829</td>
<td>BRAILLE PATTERN DOTS-146</td>
</tr>
<tr>
<td>U+282A</td>
<td>BRAILLE PATTERN DOTS-246</td>
</tr>
<tr>
<td>U+282B</td>
<td>BRAILLE PATTERN DOTS-1246</td>
</tr>
<tr>
<td>U+282C</td>
<td>BRAILLE PATTERN DOTS-346</td>
</tr>
<tr>
<td>U+282D</td>
<td>BRAILLE PATTERN DOTS-1346</td>
</tr>
<tr>
<td>U+282E</td>
<td>BRAILLE PATTERN DOTS-2346</td>
</tr>
<tr>
<td>U+282F</td>
<td>BRAILLE PATTERN DOTS-12346</td>
</tr>
<tr>
<td>U+2830</td>
<td>BRAILLE PATTERN DOTS-56</td>
</tr>
<tr>
<td>U+2831</td>
<td>BRAILLE PATTERN DOTS-156</td>
</tr>
<tr>
<td>U+2832</td>
<td>BRAILLE PATTERN DOTS-256</td>
</tr>
<tr>
<td>U+2833</td>
<td>BRAILLE PATTERN DOTS-1256</td>
</tr>
<tr>
<td>U+2834</td>
<td>BRAILLE PATTERN DOTS-356</td>
</tr>
<tr>
<td>U+2835</td>
<td>BRAILLE PATTERN DOTS-1356</td>
</tr>
<tr>
<td>U+2836</td>
<td>BRAILLE PATTERN DOTS-2356</td>
</tr>
<tr>
<td>U+2837</td>
<td>BRAILLE PATTERN DOTS-12356</td>
</tr>
<tr>
<td>U+2838</td>
<td>BRAILLE PATTERN DOTS-456</td>
</tr>
<tr>
<td>U+2839</td>
<td>BRAILLE PATTERN DOTS-1456</td>
</tr>
<tr>
<td>U+283A</td>
<td>BRAILLE PATTERN DOTS-2456</td>
</tr>
<tr>
<td>U+283B</td>
<td>BRAILLE PATTERN DOTS-12456</td>
</tr>
<tr>
<td>U+283C</td>
<td>BRAILLE PATTERN DOTS-3456</td>
</tr>
<tr>
<td>U+283D</td>
<td>BRAILLE PATTERN DOTS-13456</td>
</tr>
<tr>
<td>U+283E</td>
<td>BRAILLE PATTERN DOTS-23456</td>
</tr>
<tr>
<td>U+283F</td>
<td>BRAILLE PATTERN DOTS-123456</td>
</tr>
<tr>
<td>U+2840</td>
<td>BRAILLE PATTERN DOTS-7</td>
</tr>
<tr>
<td>U+2841</td>
<td>BRAILLE PATTERN DOTS-17</td>
</tr>
<tr>
<td>U+2842</td>
<td>BRAILLE PATTERN DOTS-27</td>
</tr>
<tr>
<td>U+2843</td>
<td>BRAILLE PATTERN DOTS-127</td>
</tr>
<tr>
<td>U+2844</td>
<td>BRAILLE PATTERN DOTS-37</td>
</tr>
<tr>
<td>U+2845</td>
<td>BRAILLE PATTERN DOTS-137</td>
</tr>
<tr>
<td>U+2846</td>
<td>BRAILLE PATTERN DOTS-237</td>
</tr>
<tr>
<td>U+2847</td>
<td>BRAILLE PATTERN DOTS-1237</td>
</tr>
<tr>
<td>U+2848</td>
<td>BRAILLE PATTERN DOTS-47</td>
</tr>
<tr>
<td>U+2849</td>
<td>BRAILLE PATTERN DOTS-147</td>
</tr>
<tr>
<td>U+284A</td>
<td>BRAILLE PATTERN DOTS-247</td>
</tr>
<tr>
<td>U+284B</td>
<td>BRAILLE PATTERN DOTS-1247</td>
</tr>
<tr>
<td>U+284C</td>
<td>BRAILLE PATTERN DOTS-347</td>
</tr>
<tr>
<td>U+284D</td>
<td>BRAILLE PATTERN DOTS-1347</td>
</tr>
<tr>
<td>U+284E</td>
<td>BRAILLE PATTERN DOTS-2347</td>
</tr>
<tr>
<td>U+284F</td>
<td>BRAILLE PATTERN DOTS-12347</td>
</tr>
<tr>
<td>U+2850</td>
<td>BRAILLE PATTERN DOTS-57</td>
</tr>
<tr>
<td>U+2851</td>
<td>BRAILLE PATTERN DOTS-157</td>
</tr>
<tr>
<td>U+2852</td>
<td>BRAILLE PATTERN DOTS-257</td>
</tr>
<tr>
<td>U+2853</td>
<td>BRAILLE PATTERN DOTS-1257</td>
</tr>
<tr>
<td>U+2854</td>
<td>BRAILLE PATTERN DOTS-357</td>
</tr>
<tr>
<td>U+2855</td>
<td>BRAILLE PATTERN DOTS-1357</td>
</tr>
<tr>
<td>U+2856</td>
<td>BRAILLE PATTERN DOTS-2357</td>
</tr>
<tr>
<td>U+2857</td>
<td>BRAILLE PATTERN DOTS-12357</td>
</tr>
<tr>
<td>U+2858</td>
<td>BRAILLE PATTERN DOTS-457</td>
</tr>
<tr>
<td>U+2859</td>
<td>BRAILLE PATTERN DOTS-1457</td>
</tr>
<tr>
<td>U+285A</td>
<td>BRAILLE PATTERN DOTS-2457</td>
</tr>
<tr>
<td>U+285B</td>
<td>BRAILLE PATTERN DOTS-12457</td>
</tr>
<tr>
<td>U+285C</td>
<td>BRAILLE PATTERN DOTS-3457</td>
</tr>
<tr>
<td>U+285D</td>
<td>BRAILLE PATTERN DOTS-13457</td>
</tr>
<tr>
<td>U+285E</td>
<td>BRAILLE PATTERN DOTS-23457</td>
</tr>
<tr>
<td>U+285F</td>
<td>BRAILLE PATTERN DOTS-123457</td>
</tr>
<tr>
<td>U+2860</td>
<td>BRAILLE PATTERN DOTS-67</td>
</tr>
<tr>
<td>U+2861</td>
<td>BRAILLE PATTERN DOTS-167</td>
</tr>
<tr>
<td>U+2862</td>
<td>BRAILLE PATTERN DOTS-267</td>
</tr>
<tr>
<td>U+2863</td>
<td>BRAILLE PATTERN DOTS-1267</td>
</tr>
<tr>
<td>U+2864</td>
<td>BRAILLE PATTERN DOTS-367</td>
</tr>
<tr>
<td>U+2865</td>
<td>BRAILLE PATTERN DOTS-1367</td>
</tr>
<tr>
<td>U+2866</td>
<td>BRAILLE PATTERN DOTS-2367</td>
</tr>
<tr>
<td>U+2867</td>
<td>BRAILLE PATTERN DOTS-12367</td>
</tr>
<tr>
<td>U+2868</td>
<td>BRAILLE PATTERN DOTS-467</td>
</tr>
<tr>
<td>U+2869</td>
<td>BRAILLE PATTERN DOTS-1467</td>
</tr>
<tr>
<td>U+286A</td>
<td>BRAILLE PATTERN DOTS-2467</td>
</tr>
<tr>
<td>U+286B</td>
<td>BRAILLE PATTERN DOTS-12467</td>
</tr>
<tr>
<td>U+286C</td>
<td>BRAILLE PATTERN DOTS-3467</td>
</tr>
<tr>
<td>U+286D</td>
<td>BRAILLE PATTERN DOTS-13467</td>
</tr>
<tr>
<td>U+286E</td>
<td>BRAILLE PATTERN DOTS-23467</td>
</tr>
<tr>
<td>U+286F</td>
<td>BRAILLE PATTERN DOTS-123467</td>
</tr>
<tr>
<td>U+2870</td>
<td>BRAILLE PATTERN DOTS-567</td>
</tr>
<tr>
<td>U+2871</td>
<td>BRAILLE PATTERN DOTS-1567</td>
</tr>
<tr>
<td>U+2872</td>
<td>BRAILLE PATTERN DOTS-2567</td>
</tr>
<tr>
<td>U+2873</td>
<td>BRAILLE PATTERN DOTS-12567</td>
</tr>
<tr>
<td>U+2874</td>
<td>BRAILLE PATTERN DOTS-3567</td>
</tr>
<tr>
<td>U+2875</td>
<td>BRAILLE PATTERN DOTS-13567</td>
</tr>
</tbody>
</table>

*The Unicode Standard 12.1, Copyright © 1991-2019 Unicode, Inc. All rights reserved.*
| 2876 | BRAILLE PATTERN DOTS-23567 |
| 2877 | BRAILLE PATTERN DOTS-123567 |
| 2878 | BRAILLE PATTERN DOTS-4567 |
| 2879 | BRAILLE PATTERN DOTS-14567 |
| 287A | BRAILLE PATTERN DOTS-24567 |
| 287B | BRAILLE PATTERN DOTS-124567 |
| 287C | BRAILLE PATTERN DOTS-34567 |
| 287D | BRAILLE PATTERN DOTS-134567 |
| 287E | BRAILLE PATTERN DOTS-234567 |
| 287F | BRAILLE PATTERN DOTS-1234567 |
| 2880 | BRAILLE PATTERN DOTS-8 |
| 2881 | BRAILLE PATTERN DOTS-18 |
| 2882 | BRAILLE PATTERN DOTS-28 |
| 2883 | BRAILLE PATTERN DOTS-128 |
| 2884 | BRAILLE PATTERN DOTS-38 |
| 2885 | BRAILLE PATTERN DOTS-138 |
| 2886 | BRAILLE PATTERN DOTS-238 |
| 2887 | BRAILLE PATTERN DOTS-1238 |
| 2888 | BRAILLE PATTERN DOTS-48 |
| 2889 | BRAILLE PATTERN DOTS-148 |
| 288A | BRAILLE PATTERN DOTS-248 |
| 288B | BRAILLE PATTERN DOTS-1248 |
| 288C | BRAILLE PATTERN DOTS-348 |
| 288D | BRAILLE PATTERN DOTS-1348 |
| 288E | BRAILLE PATTERN DOTS-2348 |
| 288F | BRAILLE PATTERN DOTS-12348 |
| 2890 | BRAILLE PATTERN DOTS-58 |
| 2891 | BRAILLE PATTERN DOTS-158 |
| 2892 | BRAILLE PATTERN DOTS-258 |
| 2893 | BRAILLE PATTERN DOTS-1258 |
| 2894 | BRAILLE PATTERN DOTS-358 |
| 2895 | BRAILLE PATTERN DOTS-1358 |
| 2896 | BRAILLE PATTERN DOTS-2358 |
| 2897 | BRAILLE PATTERN DOTS-12358 |
| 2898 | BRAILLE PATTERN DOTS-458 |
| 2899 | BRAILLE PATTERN DOTS-12458 |
| 289A | BRAILLE PATTERN DOTS-2458 |
| 289B | BRAILLE PATTERN DOTS-12458 |
| 289C | BRAILLE PATTERN DOTS-3458 |
| 289D | BRAILLE PATTERN DOTS-13458 |
| 289E | BRAILLE PATTERN DOTS-23458 |
| 289F | BRAILLE PATTERN DOTS-123458 |
| 28A0 | BRAILLE PATTERN DOTS-68 |
| 28A1 | BRAILLE PATTERN DOTS-168 |
| 28A2 | BRAILLE PATTERN DOTS-268 |
| 28A3 | BRAILLE PATTERN DOTS-1268 |
| 28A4 | BRAILLE PATTERN DOTS-368 |
| 28A5 | BRAILLE PATTERN DOTS-1368 |
| 28A6 | BRAILLE PATTERN DOTS-2368 |
| 28A7 | BRAILLE PATTERN DOTS-12368 |
| 28A8 | BRAILLE PATTERN DOTS-468 |
| 28A9 | BRAILLE PATTERN DOTS-1468 |
| 28AA | BRAILLE PATTERN DOTS-2468 |
| 28AB | BRAILLE PATTERN DOTS-12468 |
| 28AC | BRAILLE PATTERN DOTS-3468 |
| 28AD | BRAILLE PATTERN DOTS-13468 |
| 28AE | BRAILLE PATTERN DOTS-23468 |
| 28AF | BRAILLE PATTERN DOTS-123468 |
| 28B0 | BRAILLE PATTERN DOTS-568 |
| 28B1 | BRAILLE PATTERN DOTS-1568 |
| 28B2 | BRAILLE PATTERN DOTS-2568 |
| 28B3 | BRAILLE PATTERN DOTS-12568 |

The Unicode Standard 12.1, Copyright © 1991-2019 Unicode, Inc. All rights reserved.
<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>28F2</td>
<td>BRAILLE PATTERN DOTS-25678</td>
</tr>
<tr>
<td>28F3</td>
<td>BRAILLE PATTERN DOTS-125678</td>
</tr>
<tr>
<td>28F4</td>
<td>BRAILLE PATTERN DOTS-35678</td>
</tr>
<tr>
<td>28F5</td>
<td>BRAILLE PATTERN DOTS-135678</td>
</tr>
<tr>
<td>28F6</td>
<td>BRAILLE PATTERN DOTS-235678</td>
</tr>
<tr>
<td>28F7</td>
<td>BRAILLE PATTERN DOTS-1235678</td>
</tr>
<tr>
<td>28F8</td>
<td>BRAILLE PATTERN DOTS-45678</td>
</tr>
<tr>
<td>28F9</td>
<td>BRAILLE PATTERN DOTS-145678</td>
</tr>
<tr>
<td>28FA</td>
<td>BRAILLE PATTERN DOTS-245678</td>
</tr>
<tr>
<td>28FB</td>
<td>BRAILLE PATTERN DOTS-1245678</td>
</tr>
<tr>
<td>28FC</td>
<td>BRAILLE PATTERN DOTS-345678</td>
</tr>
<tr>
<td>28FD</td>
<td>BRAILLE PATTERN DOTS-1345678</td>
</tr>
<tr>
<td>28FE</td>
<td>BRAILLE PATTERN DOTS-2345678</td>
</tr>
<tr>
<td>28FF</td>
<td>BRAILLE PATTERN DOTS-12345678</td>
</tr>
</tbody>
</table>