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API Collection

# Braille displays

Display a graphical representation of images, icons, data, and more on a two-dimensional braille display.

## Overview

A refreshable braille display is a hardware device that shows rows of pins that can raise and lower. People who are blind or deafblind use these devices to read digital content through interaction with a screenreader, such as VoiceOver. For information about connecting a braille display to an Apple device, read [Use a braille display with VoiceOver on iPhone](#).

A two-dimensional refreshable braille display has a grid of evenly spaced pins that you can use to represent images, charts, and other visual data to VoiceOver users so they can experience your content through touch.

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## Topics

### Braille maps

`class AXBrailleMap`

A representation of a two-dimensional braille display.

`protocol AXBrailleMapRenderer`

The interface for providing data for a braille map.

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## See Also

### Braille

`class AXBrailleTable`

A rule for translating print text to Braille, and back-translating Braille to print text.

`class AXBrailleTranslator`

Translates print text to Braille and Braille to print text according to the given Braille table.

`class AXBrailleTranslationResult`

The result of translation or back-translation.