

QR Code and Barcode Generator

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Abstract: Before we delve into the history of a QR Code, let's make sure it's clear what a QR Code is. A QR Code, or quick response Code, is a Code that is quickly readable by a cell phone (hence the word "quick" in the name). Using a combination of spacing as a type of Matrix Barcode (a 2-D Barcode), when a QR Code is scanned, it conveys a wide multitude of information. QR Codes have a wide range of uses across all types of industries such as retail, marketing, and logistics. A barcode, consisting of bars and spaces, is a machine-readable representation of numerals and characters. Today, stripes as shown below on packages of products sold at supermarkets, convenience stores and other stores are ubiquitous. These are barcodes. A barcode consists of bars and spaces of varying width that can be read with an optical barcode scanner. While QR Codes and Barcodes are similar in practice, QR Codes contain more information because they have the ability to hold information both horizontally and vertically. Barcodes only use horizontal information. While Barcodes work wonderfully for situations like scanning supermarket items, QR Codes have a much higher capability of transferring information, likely what has made them increasingly popular due to their versatility.

Keywords: QR code, Barcode

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