zxing

Multi-format 1D/2D barcode image processing library
with clients for Android, Java

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barcode, QRCode, Java,
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dswit...@google.com
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ZXing ("Zebra Crossing")

ZXing (pronounced "zebra crossing") is an open-source, multi-format 1D/2D barcode image processing library implemented in Java, with ports to other languages. Our focus is on using the built-in camera on mobile phones to scan and decode barcodes on the device, without communicating with a server. However the project can be used to encode and decode barcodes on desktops and servers as well. We currently support these formats:

- UPC-A and UPC-E
- EAN-8 and EAN-13
- Code 39
- Code 93
- Code 128
- ITF
- Codabar
- RSS-14 (all variants)
- RSS Expanded (most variants)
- QR Code
- Data Matrix
- Aztec ('beta' quality)
- PDF 417 ('alpha' quality)

This library is divided into several main components which are actively supported:

- **core**: The core image decoding library, and test code
- **javase**: J2SE-specific client code
- **zxingorg**: The source behind zxing.org/w
- **zxing.appspot.com**: The source behind our web-based barcode generator
- **android**: Android client, called Barcode Scanner
- **androidtest**: Android test app
- **android-integration**: Supports integration with our Barcode Scanner app via Intent

There are also additional modules which are contributed and/or intermittently maintained:

- **actionscript**: partial port to Actionscript
- **cpp**: Partial C++ port
- **iphone**: iPhone client + port to Objective C / C++ (QR code only)
- **jruby**: Ruby wrapper

And there are ports to other languages and platforms available as separate third-party projects:

- QZXing : port to Qt framework
- ZXing .NET : port to .NET and C#, and related Windows platforms

And if this isn't what you're looking for, look into other mature open source barcode projects:

- ZBar : decoder in C++, especially for iPhone
- Zint : barcode generator

To complement our decoding software, we have created a web-based QR Code generator which supports contact information, calendar events, URLs, and much more.

Contacting Us

Please post to our discussion forum or tag a question with `zxing` on StackOverflow instead of emailing the authors privately.

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ZXing

Main Language: Java

Total Lines of Code: 113,034

Active Contributors: 7

Commit Activity Timeline:

5 year commit count

Updated Sep 09, 2013   more at O

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