<<interface>> BarcodeIO

+ scan(Barcode bc) : boolean
+ readText(String text) : boolean
+ generateImageFromText() : boolean
+ translateImageToText(): boolean
+ displayTextToConsole() : void
+ displayImageToConsole() : void

<<interface>> Cloneable

DataMatrix

+ BLACK_CHAR: char
+ WHITE_CHAR: char
- image: BarcodeImage
- text: String
- actualWidth: int
- actualHeight: int

+ DataMatrix()
+ DataMatrix(Barcode image)
+ DataMatrix(String text)
+ readText(String text) : boolean
+ scan(Barcode image) : boolean
+ getActualWidth() : int
+ getActualHeight() : int
- computeSignalWidth() : int
- computeSignalHeight() : int
- cleanImage() : void
- moveImageToLowerLeft() : void
- moveShiftImageDown(int offset) : void
- shiftImageLeft(int offset) : void
- readCharFromCol(int col) : char
- writeCharToCol(int col, int code) : boolean
+ displayRawImage() : void
- clearImage() : void

BarcodeImage

+ MAX_HEIGHT: int
+ MAX_WIDTH: int
- imageData: boolean[][]

+ BarcodeImage()
+ BarcodeImage(String[] strData)
+ getPixel(int row, int col) : boolean
+ setPixel(int row, int col, boolean value) : boolean
- checkSize(String[] data) : boolean
+ displayToConsole() : void
+ clone() : Object