

<<interface>>
BarcodeIO

+ scan(BarcodeImage bc): bool
+ readText(String text): bool
+ generateImageFromText(): bool
+ translateImageToText(): bool
+ displayTextToConsole(): void
+ displayImageToConsole(): void



DataMatrix

+ Black_Char: char
+ White_Char: char
- image: BarcodeImage
- text: String
- actualWidth: int
- actualHeight: int

+ displayTextToConsole(): void
+ displayImageToConsole(): void
+ DataMatrix()
+ DataMatrix(BarcodeImage image)
+ DataMatrix(String text)
+ readText(String text): bool
+ scan(BarcodeImage bc): bool
+ getActualWidth(): int
+ getActualHeight(): int
- computeSignalWidth(): int
- computeSignalHeight(): int
- cleanImage(): void
- readCharFromCol(int col): char
+ generateImageFromText(): bool
+ translateImageToText(): bool
- moveImageToLowerLeft(): void
- shiftImageDown(int offset): void
+ shiftImageLeft(int offset): void
+ displayRawImage(): void



BarcodeImage

+ Max_Height: int
+ Max_Width: int
- image_data: [][]

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