

## Barcode Command

*<http://www.connectcode.net/barcodesoftwaremac.shtml>*

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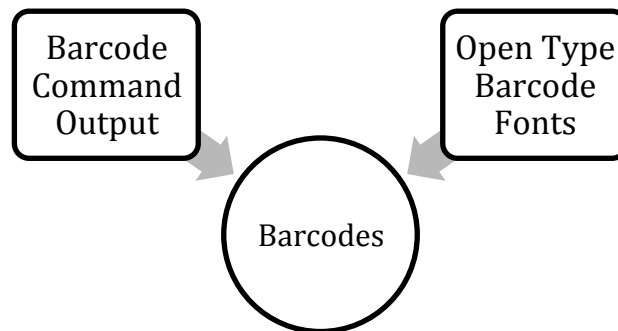
# Table of Contents

<b>1. ConnectCode Barcode Command</b> .....	<b>1-1</b>
1.1 ConnectCode Barcode Command.....	1-1
1.2 Downloading and Using Barcode Command.....	1-2
1.3 An overview on the use of Barcode Command to create a barcode .....	1-2
1.4 Parameters of Barcode Command .....	1-3
1.4.1 General Usage .....	1-3
1.4.2 Code 39.....	1-3
1.4.3 Code 39 ASCII.....	1-4
1.4.4 Code 128 Auto.....	1-4
1.4.5 Code 128 A.....	1-4
1.4.6 Code 128 B.....	1-5
1.4.7 Code 128 C .....	1-5
1.4.8 UCCEAN .....	1-6
1.4.9 Code 93 .....	1-6
1.4.10 Codabar .....	1-7
1.4.11 EAN13.....	1-8
1.4.12 EAN8.....	1-9
1.4.13 UPCA .....	1-10
1.4.14 UPCE .....	1-11
1.4.15 EXT2 .....	1-12
1.4.16 EXT5 .....	1-13
1.4.17 I2of5 .....	1-14
1.4.18 ITF14.....	1-14
1.4.19 Industrial 2 of 5 .....	1-15
1.4.20 Modified Plessey.....	1-15
1.4.21 POSTNET .....	1-15
1.4.22 GS1 Databar 14 .....	1-16

# 1. ConnectCode Barcode Command

## 1.1 ConnectCode Barcode Command

ConnectCode Barcode Command is a command line application/utility for Mac OS X that generates industry adherence barcodes. Information such as like the type of barcode, data, and check digit are specified as input parameters to the command line application. By using the output string of the Barcode Command application with Open Type Barcode Fonts (provided in ConnectCode Barcode Software), high quality barcodes can be created easily.



It is important to note that when a barcode (which is created using a font) is printed, it rasters to the resolution of the printer and will not be limited to the DPI (Dots per Inch) of an image. This allows resolution-independent barcodes that meet the strictest industry requirements to be created and printed.

The "command line" nature of the Barcode Command application allows it to be easily integrated into existing workflow processes. For example, shell scripts (Bash scripts or Apple Scripts etc.) can make use of the command line application to generate barcodes for a large number of product items quickly and easily.

## 1.2 Downloading and Using Barcode Command

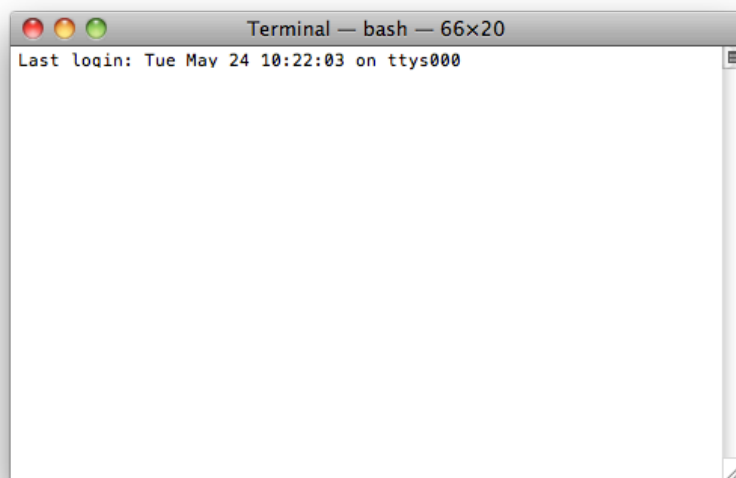
ConnectCode Barcode Command is available for download at the following:

<http://www.connectcode.net/commandlinebarcodemac.shtml>

The software requires the Open Type Barcode Fonts bundled in ConnectCode Barcode Software for Mac (available in the Mac App Store) to generate barcodes.

**Note : Barcode Command can only be used under the terms and conditions of ConnectCode Barcode Software.**

Barcode Command can be installed easily by simply unzipping the downloaded package. This command line application can then be launched from the Mac OS Terminal application, as shown below, by entering the command `./BarcodeCommand`.



## 1.3 An overview on the use of Barcode Command to create a barcode

The following steps provide an overview of using Barcode Command with the Open Type barcode fonts for creating a barcode.

- Enter the following command in Mac OS Terminal. The output `"*12345678-*` returned by Barcode Command is redirected to a file.

```
./BarcodeCommand Code39 `12345678` 1 > barcodefile.txt
```

- Open the "barcodefile.txt" file using TextEdit.
- Select and highlight the data (`"*12345678-*`) in the file.
- Go to the menu `Format->Fonts->Show Fonts`.
- Set the font family to `"CCode39_S3"` and the font size to `"24"`

A Code 39 barcode that adheres to industry specifications is created.

## 1.4 Parameters of Barcode Command

This section focuses on the parameters supported by Barcode Command. The table below illustrates the general pattern of usage. It is common to add “.” before the “BarcodeCommand” to instruct Mac OS Terminal to launch the application from the current directory. When describing the usage of Barcode Command in this section, the “.” is generally not included.

### 1.4.1 General Usage

```
BarcodeCommand <BarcodeType> '<BarcodeData>' <BarcodeParameters>
```

It is important to enclose the barcode data using single quotes as shown above. This is to prevent special characters occurring in the data being interpreted as some UNIX Shell commands.

Different types of barcodes support different types of parameters, which are described in details below.

### 1.4.2 Code 39

```
BarcodeCommand Code39 '<BarcodeData>' <CheckDigit: 0 for Off or 1 for On>
```

An example of creating a Code 39 barcode with a check digit using the data “12345678” is shown below. Note the “.” we described at the start of this section is included in the example below. For the rest of this section, the “.” is assumed in the command entered in the Mac OS Terminal.

```
./BarcodeCommand Code39 '12345678' 1
```

#### 1.4.2.1 Fonts

The Code 39 barcode can use the following fonts:

- CCode39\_S1
- CCode39\_S2
- CCode39\_S3
- CCode39\_S4
- CCode39\_S5
- CCode39\_S6
- CCode39\_S7
- CCode39\_HS3 – With Human Readable Text

### 1.4.3 Code 39 ASCII

```
BarcodeCommand Code39ASCII '<BarcodeData>' <CheckDigit: 0 for Off or 1 for On>
```

#### 1.4.3.1 **Fonts**

The Code 39 ASCII barcode can use the following fonts:

- CCode39\_S1
- CCode39\_S2
- CCode39\_S3
- CCode39\_S4
- CCode39\_S5
- CCode39\_S6
- CCode39\_S7
- CCode39\_HS3 – With Human Readable Text

### 1.4.4 Code 128 Auto

```
BarcodeCommand Code128Auto '<BarcodeData>'
```

#### 1.4.4.1 **Fonts**

The Code 128 Auto barcode can use the following fonts:

- CCode128\_S1
- CCode128\_S2
- CCode128\_S3
- CCode128\_S4
- CCode128\_S5
- CCode128\_S6
- CCode128\_S7

### 1.4.5 Code 128 A

```
BarcodeCommand Code128A '<BarcodeData>'
```

#### 1.4.5.1 **Fonts**

The Code 128 A barcode can use the following fonts:

- CCode128\_S1
- CCode128\_S2
- CCode128\_S3
- CCode128\_S4
- CCode128\_S5

- CCode128\_S6
- CCode128\_S7

#### **1.4.6**     **Code 128 B**

```
BarcodeCommand Code128B '<BarcodeData>'
```

##### **1.4.6.1**   **Fonts**

The Code 128 B barcode can use the following fonts:

- CCode128\_S1
- CCode128\_S2
- CCode128\_S3
- CCode128\_S4
- CCode128\_S5
- CCode128\_S6
- CCode128\_S7
- CCode128B\_HS3 – With Human Readable Text

#### **1.4.7**     **Code 128 C**

```
BarcodeCommand Code128C '<BarcodeData>'
```

##### **1.4.7.1**   **Fonts**

The Code 128 C barcode can use the following fonts:

- CCode128\_S1
- CCode128\_S2
- CCode128\_S3
- CCode128\_S4
- CCode128\_S5
- CCode128\_S6
- CCode128\_S7

## 1.4.8 UCCEAN

```
BarcodeCommand UCCEAN '<BarcodeData>'
```

It is important to note that the data for a UCCEAN barcode **strictly** requires the single quotes as shown above. The reason is that UCCEAN data contains brackets for enclosing Application Identifiers. For example, the SSCC barcode starts with "(00)" and the GTIN barcode starts with "(01)". To cater to the brackets, the single quotes are required in the command. The table below illustrates how to create a GTIN UCCEAN barcode with the single quotes.

```
BarcodeCommand UCCEAN '(01)12345678901234'
```

### 1.4.8.1 **Fonts**

The UCCEAN (GS1 128) barcode can use the following fonts:

- CCode128\_S1
- CCode128\_S2
- CCode128\_S3
- CCode128\_S4
- CCode128\_S5
- CCode128\_S6
- CCode128\_S7

## 1.4.9 Code 93

```
BarcodeCommand Code93 '<BarcodeData>' <CheckDigit: 0 for Off or 1 for On>
```

### 1.4.9.1 **Fonts**

The Code 93 barcode can use the following fonts:

- CCode93\_S1
- CCode93\_S2
- CCode93\_S3
- CCode93\_S4
- CCode93\_S5
- CCode93\_S6
- CCode93\_S7



## 1.4.10 Codabar

```
BarcodeCommand Codabar '<BarcodeData>'
```

### 1.4.10.1 **Fonts**

The Rational Codabar barcode can use the following fonts:

- CCodeCodabar\_S1
- CCodeCodabar\_S2
- CCodeCodabar\_S3
- CCodeCodabar\_S4
- CCodeCodabar\_S5
- CCodeCodabar\_S6
- CCodeCodabar\_S7

## 1.4.11 EAN13

```
BarcodeCommand EAN13 '<BarcodeData>' <Extended Style: 0 for Off or 1 for On>
```

THE UPC/EAN barcode font supports human readable text embedded in an extended style manner as shown below. To generate an output string that produces the barcode below, simply provide the value "1" for the Extended Style parameter.



### 1.4.11.1 Fonts

The EAN13 barcode can use the following fonts:

#### Without Human Text

- CCodeUPCEAN\_S1
- CCodeUPCEAN\_S2
- CCodeUPCEAN\_S3
- CCodeUPCEAN\_S4
- CCodeUPCEAN\_S5
- CCodeUPCEAN\_S6
- CCodeUPCEAN\_S7

#### With Human Text at the Bottom of the barcode (For Extended Style)

- CCodeUPCEAN\_HRBS1
- CCodeUPCEAN\_HRBS2
- CCodeUPCEAN\_HRBS3
- CCodeUPCEAN\_HRBS4
- CCodeUPCEAN\_HRBS5
- CCodeUPCEAN\_HRBS6
- CCodeUPCEAN\_HRBS7

**With Human Text at the Top of the barcode (typically only used by EXT2/EXT5. For this barcode, only 3 font sizes are supported.)**

- CCodeUPCEAN\_HRTS1
- CCodeUPCEAN\_HRTS2
- CCodeUPCEAN\_HRTS3

## 1.4.12 EAN8

BarcodeCommand EAN8 '<BarcodeData>' <Extended Style: 0 for Off or 1 for On>

### 1.4.12.1 **Fonts**

The EAN8 barcode can use the following fonts:

#### **Without Human Text**

- CCodeUPCEAN\_S1
- CCodeUPCEAN\_S2
- CCodeUPCEAN\_S3
- CCodeUPCEAN\_S4
- CCodeUPCEAN\_S5
- CCodeUPCEAN\_S6
- CCodeUPCEAN\_S7

#### **With Human Text at the Bottom of the barcode (For Extended Style)**

- CCodeUPCEAN\_HRBS1
- CCodeUPCEAN\_HRBS2
- CCodeUPCEAN\_HRBS3
- CCodeUPCEAN\_HRBS4
- CCodeUPCEAN\_HRBS5
- CCodeUPCEAN\_HRBS6
- CCodeUPCEAN\_HRBS7

**With Human Text at the Top of the barcode (typically only used by EXT2/EXT5. For this barcode, only 3 font sizes are supported.)**

- CCodeUPCEAN\_HRTS1
- CCodeUPCEAN\_HRTS2
- CCodeUPCEAN\_HRTS3

### 1.4.13 UPCA

BarcodeCommand UPCA '<BarcodeData>' <Extended Style: 0 for Off or 1 for On>

#### 1.4.13.1 **Fonts**

The UPCA barcode can use the following fonts:

##### **Without Human Text**

- CCodeUPCEAN\_S1
- CCodeUPCEAN\_S2
- CCodeUPCEAN\_S3
- CCodeUPCEAN\_S4
- CCodeUPCEAN\_S5
- CCodeUPCEAN\_S6
- CCodeUPCEAN\_S7

##### **With Human Text at the Bottom of the barcode (For Extended Style)**

- CCodeUPCEAN\_HRBS1
- CCodeUPCEAN\_HRBS2
- CCodeUPCEAN\_HRBS3
- CCodeUPCEAN\_HRBS4
- CCodeUPCEAN\_HRBS5
- CCodeUPCEAN\_HRBS6
- CCodeUPCEAN\_HRBS7

**With Human Text at the Top of the barcode (typically only used by EXT2/EXT5. For this barcode, only 3 font sizes are supported.)**

- CCodeUPCEAN\_HRTS1
- CCodeUPCEAN\_HRTS2
- CCodeUPCEAN\_HRTS3

## 1.4.14 UPCE

BarcodeCommand UPCE '<BarcodeData>' <Extended Style: 0 for Off or 1 for On>

### 1.4.14.1 **Fonts**

The UPCE barcode can use the following fonts:

#### **Without Human Text**

- CCodeUPCEAN\_S1
- CCodeUPCEAN\_S2
- CCodeUPCEAN\_S3
- CCodeUPCEAN\_S4
- CCodeUPCEAN\_S5
- CCodeUPCEAN\_S6
- CCodeUPCEAN\_S7

#### **With Human Text at the Bottom of the barcode (For Extended Style)**

- CCodeUPCEAN\_HRBS1
- CCodeUPCEAN\_HRBS2
- CCodeUPCEAN\_HRBS3
- CCodeUPCEAN\_HRBS4
- CCodeUPCEAN\_HRBS5
- CCodeUPCEAN\_HRBS6
- CCodeUPCEAN\_HRBS7

**With Human Text at the Top of the barcode (typically only used by EXT2/EXT5. For this barcode, only 3 font sizes are supported.)**

- CCodeUPCEAN\_HRTS1
- CCodeUPCEAN\_HRTS2
- CCodeUPCEAN\_HRTS3

## 1.4.15 EXT2

BarcodeCommand EXT2 '<BarcodeData>' <Extended Style: 0 for Off or 1 for On>

### 1.4.15.1 Fonts

The EXT2 barcode can use the following fonts:

#### Without Human Text

- CCodeUPCEAN\_S1
- CCodeUPCEAN\_S2
- CCodeUPCEAN\_S3
- CCodeUPCEAN\_S4
- CCodeUPCEAN\_S5
- CCodeUPCEAN\_S6
- CCodeUPCEAN\_S7

#### With Human Text at the Bottom of the barcode (For Extended Style)

- CCodeUPCEAN\_HRBS1
- CCodeUPCEAN\_HRBS2
- CCodeUPCEAN\_HRBS3
- CCodeUPCEAN\_HRBS4
- CCodeUPCEAN\_HRBS5
- CCodeUPCEAN\_HRBS6
- CCodeUPCEAN\_HRBS7

**With Human Text at the Top of the barcode (typically only used by EXT2/EXT5. For this barcode, only 3 font sizes are supported.)**

- CCodeUPCEAN\_HRTS1
- CCodeUPCEAN\_HRTS2
- CCodeUPCEAN\_HRTS3

## 1.4.16 EXT5

BarcodeCommand EXT5 '<BarcodeData>' <Extended Style: 0 for Off or 1 for On>

### 1.4.16.1 Fonts

The EXT5 barcode can use the following fonts:

#### Without Human Text

- CCodeUPCEAN\_S1
- CCodeUPCEAN\_S2
- CCodeUPCEAN\_S3
- CCodeUPCEAN\_S4
- CCodeUPCEAN\_S5
- CCodeUPCEAN\_S6
- CCodeUPCEAN\_S7

#### With Human Text at the Bottom of the barcode (For Extended Style)

- CCodeUPCEAN\_HRBS1
- CCodeUPCEAN\_HRBS2
- CCodeUPCEAN\_HRBS3
- CCodeUPCEAN\_HRBS4
- CCodeUPCEAN\_HRBS5
- CCodeUPCEAN\_HRBS6
- CCodeUPCEAN\_HRBS7

**With Human Text at the Top of the barcode (typically only used by EXT2/EXT5. For this barcode, only 3 font sizes are supported.)**

- CCodeUPCEAN\_HRTS1
- CCodeUPCEAN\_HRTS2
- CCodeUPCEAN\_HRTS3

### 1.4.17 I2of5

```
BarcodeCommand I2of5 '<BarcodeData>' <CheckDigit: 0 for Off or 1 for On>
```

#### 1.4.17.1 **Fonts**

The I2of5 barcode can use the following fonts:

- CCodeI2of5\_S1
- CCodeI2of5\_S2
- CCodeI2of5\_S3
- CCodeI2of5\_S4
- CCodeI2of5\_S5
- CCodeI2of5\_S6
- CCodeI2of5\_S7
- CCodeI2of5\_HS3 - With Human Readable Text

### 1.4.18 ITF14

```
BarcodeCommand ITF14 '<BarcodeData>' <CheckDigit: 0 for Off or 1 for On> <ITF: 0 for TopBottom or 1 for Rectangle
```

The bearers bar of the ITF14 barcode is specified in the third parameter as shown above. A value of "0" will generate a barcode on the left, as shown below, while a value of "1" will generate a barcode on the right with rectangle bearers bar.



#### 1.4.18.1 **Fonts**

The ITF14 barcode can use the following fonts:

- CCodeITF\_S1
- CCodeITF\_S2
- CCodeITF\_S3
- CCodeITF\_S4
- CCodeITF\_S5
- CCodeITF\_S6
- CCodeITF\_S7



### 1.4.19 Industrial 2 of 5

```
BarcodeCommand Industrial2of5 '<BarcodeData>' <CheckDigit: 0 for Off or 1 for On>
```

#### 1.4.19.1 **Fonts**

The Industrial 2 of 5 barcode can use the following fonts:

- CCodeIND2of5\_S1
- CCodeIND2of5\_S2
- CCodeIND2of5\_S3
- CCodeIND2of5\_S4
- CCodeIND2of5\_S5
- CCodeIND2of5\_S6
- CCodeIND2of5\_S7

### 1.4.20 Modified Plessey

```
BarcodeCommand ModifiedPlessey '<BarcodeData>' <CheckDigit: 0 for Off or 1 for On>
```

#### 1.4.20.1 **Fonts**

The Industrial 2 of 5 barcode can use the following fonts:

- CCodeMSI\_S1
- CCodeMSI\_S2
- CCodeMSI\_S3
- CCodeMSI\_S4
- CCodeMSI\_S5
- CCodeMSI\_S6
- CCodeMSI\_S7

### 1.4.21 POSTNET

```
BarcodeCommand POSTNET '<BarcodeData>'
```

#### 1.4.21.1 **Fonts**

The POSTNET barcode only uses the font below:

- CCodeIPostnet (Font Size 9)

## 1.4.22 GS1 Databar 14

```
BarcodeCommand GS1Databar14 '<BarcodeData>'
```

### 1.4.22.1 Fonts

The GS1 Databar 14 barcode can use the following fonts:

- CCodeGS1D\_S1
- CCodeGS1D\_S2
- CCodeGS1D\_S3
- CCodeGS1D\_S4
- CCodeGS1D\_S5
- CCodeGS1D\_S6
- CCodeGS1D\_S7