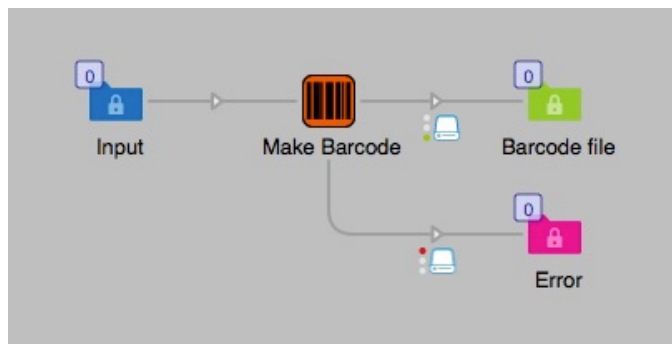


## Make Barcode

### Description

Make Barcode let you create a wide variety of different barcodes (including QR-codes) in different file formats. You can add the barcode values as variable data from metadata sources or by values you enter in the property. There is also an option to add white space on the sides of the barcodes. The barcodes can be saved as PNG (Default), EPS, PDF or SVG all of them are in RGB black. You can use different convert tools to get them to CMYK-black, for example PitStop Server or callas pdfToolbox Server. The barcode value you enter must comply with the format of the barcode type you have selected. If not, the job file ends up in the error folder.



### Compatibility

Switch 13 update 1 and higher. Windows or Mac OSX.

#### Compatibility third-party applications

This app uses Zint to create the barcodes and GhostScript to save the PDF. Zint and GhostScript have to be installed by the user to the system. On Mac OSX you can easily install Zint and GhostScript with Homebrew, read more about this further down in this document.

### Connections

Make Barcode can have several input connections and has the outgoing traffic light connections. No settings are available of the outgoing connection.

### Properties detailed info

There are a few properties in Make Barcode to set for the output of your choice.

Property	Value
<b>Name</b>	Make Barcode
<b>Description</b>	
<b>Path to Zint application</b>	/usr/local/Cellar/zint/2.4.3_2/bin/zint
<b>Type of barcode</b>	Code 128 (automatic subset switching)
<b>Barcode value</b>	12345
<b>Filename of the barcode</b>	Single-line text with variables defined
<b>Show human readable text</b>	Yes
<b>Height of barcode</b>	30
<b>Add white space</b>	No
<b>Output file type</b>	png

## Flow element properties

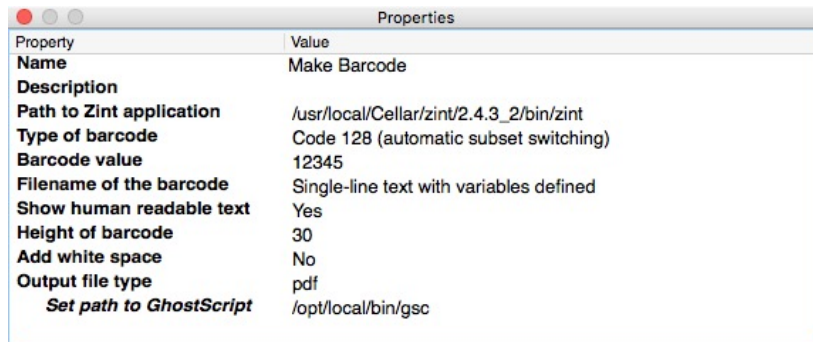
- Path to Zint application
  - Chose the Zint application file.
- Type of barcode
  - Dropdown menu with a long list of available barcode types  
Default is set to Code 128
- Barcode value
 

The value to be represented as the barcode. It includes error checking to prevent illegal barcodes, if the value isn't allowed the job file is routed to the error output connection.

  - Inline value, just a static value (Default = 12345).
  - Single-line text with variables defined.
  - Define script expression
- Filename of the barcode
  - Inline value, just a static filename.
  - Single-line text with variables defined (Default set to [Job.NameProper]) giving you the name of the job that entered the app. This will also give you the option to use the barcode value as the filename if it is available as metadata in the job.
  - Define script expression
- Show human readable text
  - Yes or No  
If set to "No" the readable text of the barcode value is not shown.  
(Default = Yes)
- Height of barcode
  - Set a value of the resulting barcodes height in points (pt). (Default = 30)
- Add white space
  - Yes or No  
Width of white space (only shown if Yes is selected)  
Value is numerical in points (pt). It will add the entered value of white to the left and right sides of the barcode. This is sometimes necessary for easier machine reading of the barcode. Default is set to 10 points.

Property	Value
<b>Name</b>	Make Barcode
<b>Description</b>	
<b>Path to Zint application</b>	/usr/local/Cellar/zint/2.4.3_2/bin/zint
<b>Type of barcode</b>	Code 128 (automatic subset switching)
<b>Barcode value</b>	12345
<b>Filename of the barcode</b>	Single-line text with variables defined
<b>Show human readable text</b>	Yes
<b>Height of barcode</b>	30
<b>Add white space</b>	Yes
<b>Width of white space (pt)</b>	10
<b>Output file type</b>	png

- Output file type
  - pdf
  - eps
  - png (Default)
  - svg



The screenshot shows a 'Properties' dialog box with a table of settings. The 'Output file type' is set to 'pdf' and the 'Set path to GhostScript' is set to '/opt/local/bin/gsc'.

Property	Value
Name	Make Barcode
Description	
Path to Zint application	/usr/local/Cellar/zint/2.4.3_2/bin/zint
Type of barcode	Code 128 (automatic subset switching)
Barcode value	12345
Filename of the barcode	Single-line text with variables defined
Show human readable text	Yes
Height of barcode	30
Add white space	No
Output file type	pdf
Set path to GhostScript	/opt/local/bin/gsc

When selecting PDF as output file type you have to set the path to your GhostScript application. Note that you have to select the one that ends with an “c”. In Mac OSX it normally installs in /opt/local/bin/ and to be able to see that folder you have to hold down CMD+Shift+Dot (.) in the file open dialog. Then browse to the file named “gsc”.

In Windows it installs in the Program folder.

### Third party information

It is required that Zint and GhostScript is installed on the system for all functions to work. If you are not going to output barcodes in PDF-format GhostScript can be omitted.

Easiest way to install on Mac OSX is to use Homebrew that will install both applications properly for you. Homebrew is found here: <https://brew.sh/index.html> after you have installed it the commands in Terminal to install the applications is as follows:

Zint: ***brew install zint***

GhostScript: ***brew install ghostscript***

Before you do any installations check if you already have these applications installed by writing the following in Terminal:

***which zint***

***which gsc***

***which brew***

If it shows any path to one of them you have that one already installed.

For Windows Zint.exe is found here for download:  
[https://sourceforge.net/projects/zint/files/zint/2.6.0/zint-2.6.0\\_win32\\_qtZint\\_cmd\\_tcl.zip/download](https://sourceforge.net/projects/zint/files/zint/2.6.0/zint-2.6.0_win32_qtZint_cmd_tcl.zip/download)

The file to use in this package is “zint.exe”. It is not an installation so you have to copy it to an folder in the Program Files folder on your system. Preferable name the folder to “Zint”.

GhostScript for Windows can be downloaded here:  
<https://www.ghostscript.com/download/gsdnld.html> and run the installer.

You can select “gswin64c.exe” or “gswin32c.exe”, both are valid applications to use.

- Note that when you set the path to GhostScript (OSX and Windows) in the properties of Make Barcode you have to select the one that ends with an “c”. The properties for the file paths are validate checked to be sure that the correct file is loaded.

### **New in version 2**

Property for setting the height of the barcode.

Property for showing barcode text or not.

### **New in version 3**

Fixed a text error preventing selection of EAN-8 and EAN-13

### **List of available barcodes**

Code 11  
Standard Code 2 of 5  
Interleaved 2 of 5  
Code 2 of 5 IATA  
Code 2 of 5 Data Logic  
Code 2 of 5 Industrial  
Code 3 of 9 (Code 39)  
Extended Code 3 of 9 (Code 39+)  
EAN (Including EAN-8 and EAN-13)  
EAN + Check Digit  
GS1-128 (UCC.EAN-128)  
Codabar  
Code 128 (automatic subset switching)  
Deutsche Post Leitcode  
Deutsche Post Identcode  
Code 16K  
Code 49  
Code 93  
Flattermarken  
GS1 DataBar-14  
GS1 Databar Limited  
GS1 DataBar Extended  
Telepen Alpha  
UPC A  
UPC A + Check Digit

UPC E  
UPC E + Check Digit  
PostNet  
MSI Plessey  
FIM  
LOGMARS  
Pharmacode One-Track  
PZN  
Pharmacode Two-Track  
PDF417  
PDF417 Truncated  
Maxicode  
QR Code  
Code 128 (Subset B)  
Australia Post Standard Customer  
Australia Post Reply Paid  
Australia Post Routing  
Australia Post Redirection  
ISBN (EAN-13 with verification stage)  
Royal Mail 4 State (RM4SCC)  
Data Matrix (ECC200)  
EAN-14  
Codablock-F  
NVE-18  
Japanese Postal Code  
Korea Post  
GS1 DataBar-14 Stacked  
GS1 DataBar-14 Stacked Omnidirectional  
GS1 DataBar Expanded Stacked  
PLANET  
MicroPDF417  
USPS OneCode  
Plessey Code  
Telepen Numeric  
ITF-14  
Dutch Post KIX Code  
Aztec Code  
DAFT Code  
Micro QR Code  
HIBC Code 128  
HIBC Code 39  
HIBC Data Matrix ECC200  
HIBC QR Code  
HIBC PDF417  
HIBC MicroPDF417  
HIBC Aztec Code  
DotCode  
Han Xin (Chinese Sensible) Code

Aztec Runes

Code 32

Composite Symbol with EAN linear component

Composite Symbol with GS1-128 linear component

Composite Symbol with GS1 DataBar-14 linear component

Composite Symbol with GS1 DataBar Limited component

Composite Symbol with GS1 DataBar Extended component

Composite Symbol with UPC A linear component

Composite Symbol with UPC E linear component

Composite Symbol with GS1 DataBar-14 Stacked component

Composite Symbol with GS1 DataBar-14 Stacked Omnidirectional component

Composite Symbol with GS1 DataBar Expanded Stacked component

Channel Code

Code One

Grid Matrix