Example: Bardcodes

Any image/photo entering the Free Form language computational container is immediately processed for:

- Any faces? if yes, highlight and cutout the facial regions and compute them (their properties).
- Any barcodes or qr-codes? if yes, highlight the barcode regions and read them.
- Any texts? if yes, OCR the image.
- Add the necessary post-processing e.g. image annotations
- Finally collect at the resulting metadata tags □□ and contents ⚲ (to be hashed) and URL export as String

Case 1: Single image multiple barcodes only




```
//symbol to process barcodes and qrcodes;
□□□□□□□;□□□□□□

□□
```

```
//add name and other information;
□□ (
□□"type"->"image segmentation"
□□"info"->"qr code detection in photo"
□□"publisher"->"CDN: compdatanotes.com"
□□"©"->"CC-BY-NC-ND 4.0"
);

show "□□□□□□□/index";

show "□□□□□□□/bartexts";

save as qr1;
```

Output

"□□□□□□□□□□□/index"



"□□□□□□□□□□□/bartexts"

{"065656915641", "065515000037", "9771468413022", "037000377085", "8435039118747"}

Blockchain Certificate

"□ /certificate" (trimmed text)

https://www.wolframcloud.com/obj/ccn2/freeform/ff/blockchain/bloxberg2/cert_json/ff_free_blox_qr.json

There are currently 4 default mandatory items inside the hash list or the CRID and you can obtain the barcode related ones

Scanned bars as above

https://www.wolframcloud.com/obj/ccn2/freeform/ff/images/ff_free_blox_qr_bars.png

JSON containing if any other OCR texts computed from the image

https://www.wolframcloud.com/obj/ccn2/freeform/ff/images/ff_free_blox_qr_imagetext.json

See the bounding box JSON below addresses as "_boxes"

https://www.wolframcloud.com/obj/ccn2/freeform/ff/images/ff_free_blox_qr_boxes.json

The String values for the barcodes and the qr codes

https://www.wolframcloud.com/obj/ccn2/freeform/ff/images/ff_free_blox_qr_barcodebox.json

"□□□□□□□□□□□□/⚲"

⚲"https://www.wolframcloud.com/obj/ccn2/freeform/ff/images/certs_free_qr1_bars.png⊕https://www.wolframcloud.com/obj/ccn2/freeform/ff/images/certs_free_qr1_imagetext.json⊕https://www.wolframcloud.com/obj/ccn2/freeform/ff/images/certs_free_qr1_boxes.json⊕https://www.wolframcloud.com/obj/ccn2/freeform/ff/images/certs_free_qr1_barcodebox.json⊕https://www.wolframcloud.com/obj/ccn2/freeform/ff/images/certs_free_qr1_linehighlights.png⊕https://www.wolframcloud.com/obj/ccn2/freeform/ff/images/certs_free_qr1_lineboxes.json"

qr-codes or bar-codes bounding box scanning area

Any geometrical information pertinent to full understanding and computational access for a region of an image or a recognized object is computed and place in appropriate JSON structures.

Cloud Object Browser

https://www.wolframcloud.com/obj/ccn2/AI/freeform/blockchain/published/certs_free_qr1

PDF Certificate

https://www.wolframcloud.com/obj/ccn2/freeform/ff/blockchain/bloxberg2/cert_pdf/certs_free_qr1_1.pdf

---

Revision #16
Created 2026-06-01 14:17:21 UTC by Dara
Updated 2026-09-12 02:20:14 UTC by Dara