

Make Your Own AprilTags

This is a printable document of April Tags that includes three families of AprilTags **36h11**, **25h9** and **16h5**.

Print Instructions:

Print:

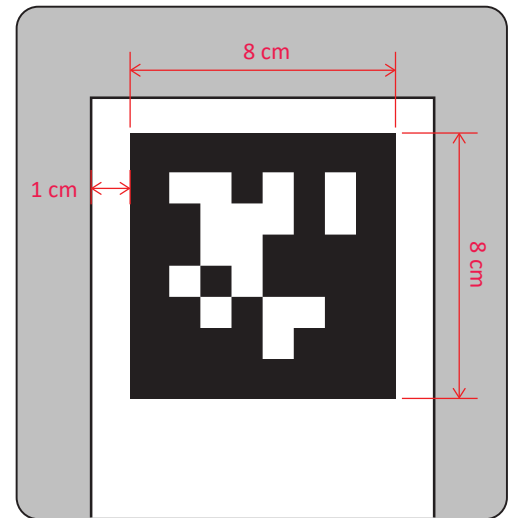
- Print on single-side only.
- Standard **A4 size** Paper (Size: 21 x 29.7 cm)
- Color Print is not needed.

Material:

- Minimum **170 GSM** paper preferred
- The paper should not have a glossy surface to avoid glare or reflection.

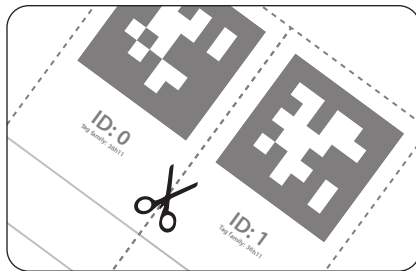
Scale:

- Print at a **100% scale** only.
- To verify the scale, measure the size of black area of any AprilTag, it should be exactly of Size: **8 x 8 cm**. The white area around the black square should be **1 cm**. (Check image on the right for reference)



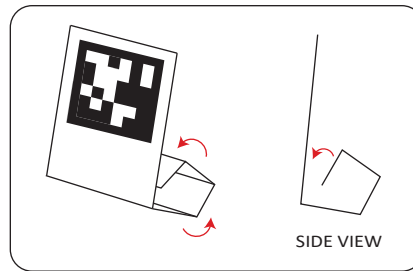
Assembly Instructions:

Step 1:



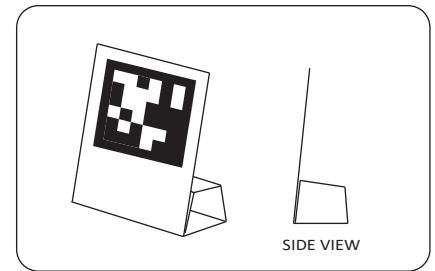
Cut along the dashed lines carefully.

Step 2:



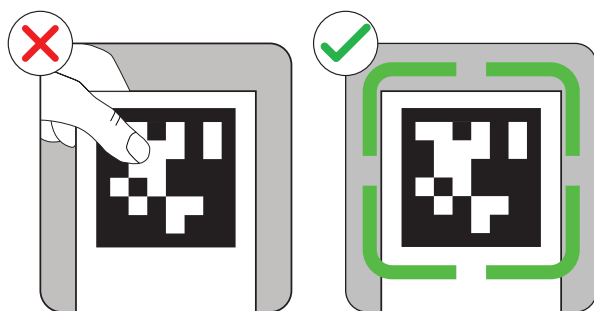
Fold the paper along the printed crease lines. Apply glue to the shaded 'gluing area', then press it into place to close the loop.

Step 3:



The AprilTag is ready!

Scanning Instructions:



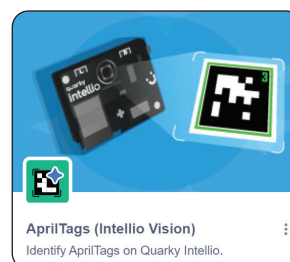
- DO NOT obstruct the AprilTag, keep it 100% visible while scanning.
- Hold the tag flat and facing the camera; avoid steep tilts or angles.
- Ensure good, even lighting and avoid glare or reflections on the tag.
- Keep the tag steady and within the camera's frame not too close, not too far.

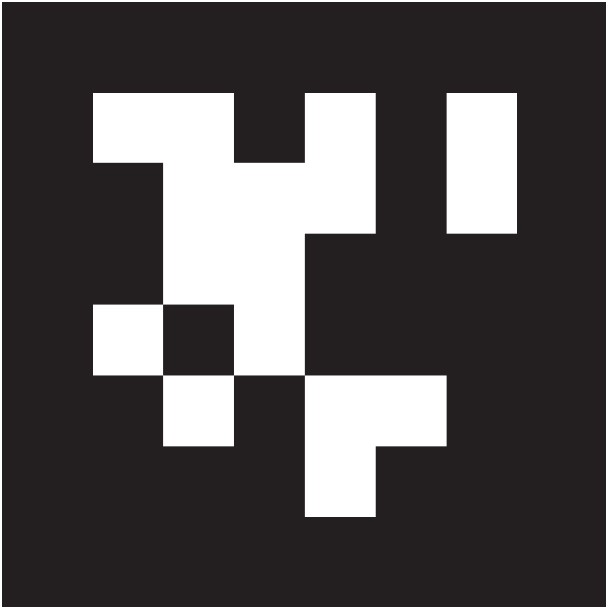
Code with:



PictoBlox

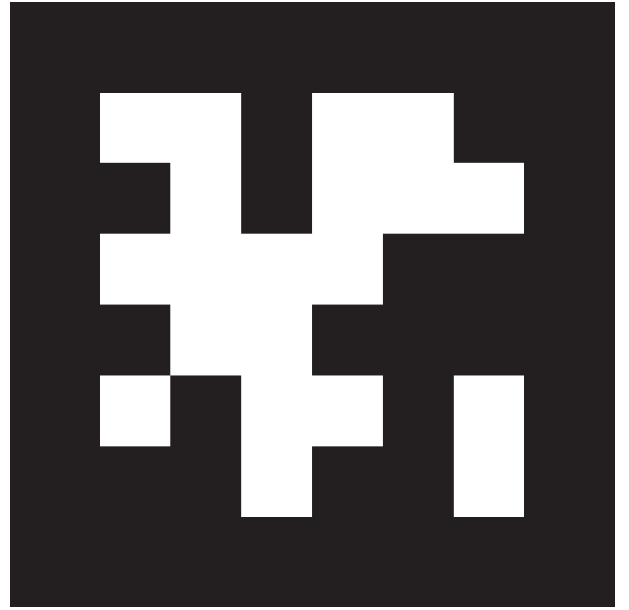
Recommended to be used with PictoBlox's AprilTags extensions as follows:





ID: 0

Tag family: 36h11

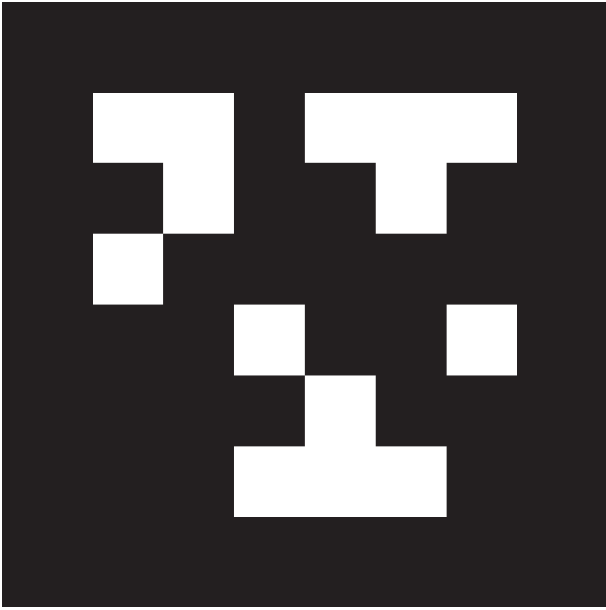


ID: 1

Tag family: 36h11

GLUING AREA

GLUING AREA



ID: 2
Tag family: 36h11



ID: 3
Tag family: 36h11





ID: 0

Tag family: 25h9



ID: 1

Tag family: 25h9

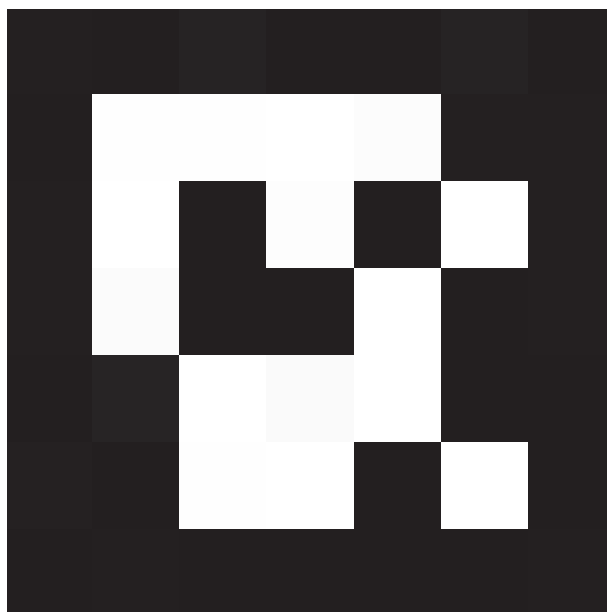
GLUING AREA

GLUING AREA



ID: 2

Tagfamily:25h9

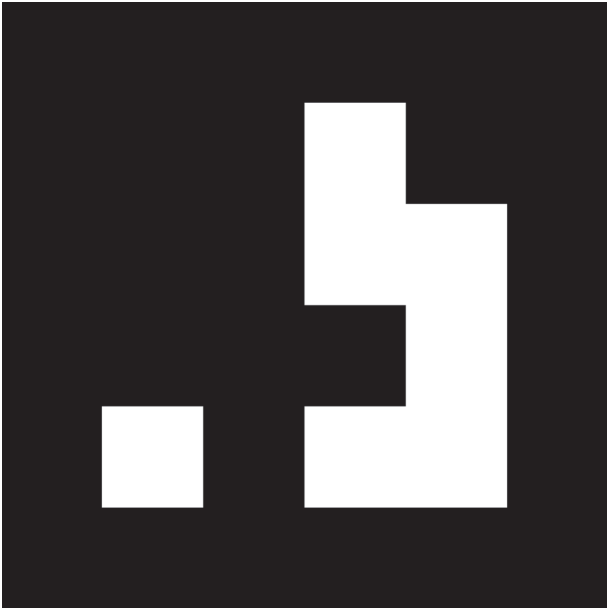


ID: 3

Tag family: 25h9

GLUING AREA

GLUING AREA



ID: 0

Tag family: 16h5

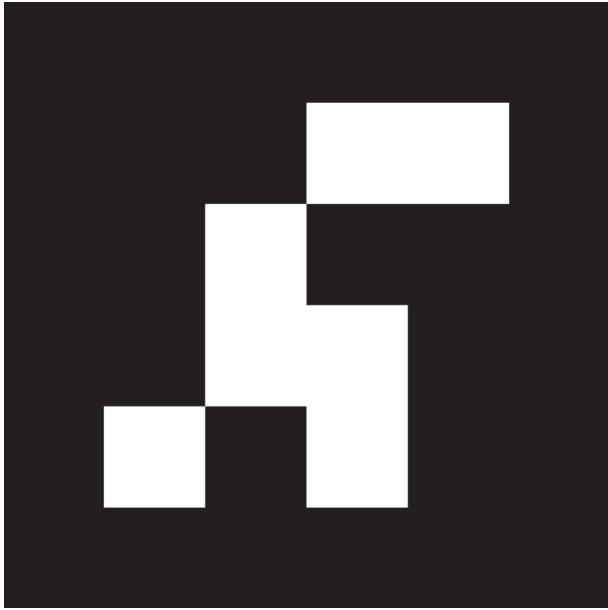


ID: 1

Tag family: 16h5

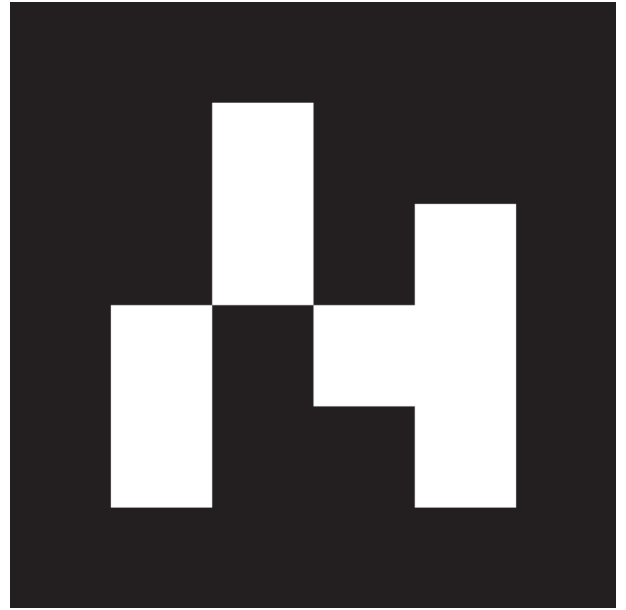
GLUING AREA

GLUING AREA



ID: 2

Tag family: 16h5



ID: 3

Tag family: 16h5

