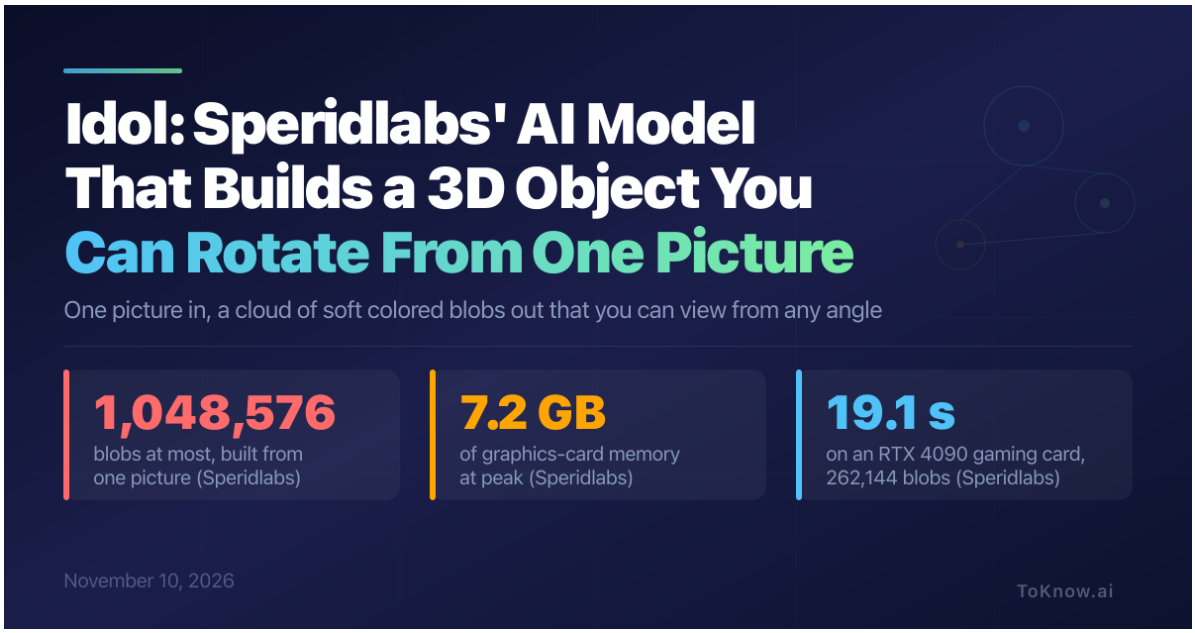
Idol: Speridlabs' AI Model That Builds a 3D Object You Can Rotate From One Picture

Kabui, Charles

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Idol is an AI model from the lab Speridlabs that turns one picture of an object into a 3D version you can turn around on screen. It suits 3D artists and developers who have a picture of an object but no 3D model of it. Idol cuts the object out of its background. A diffusion model, the kind of AI behind many image generators, then builds it over 50 passes by default as a Gaussian splat: a cloud of soft, colored, see-through blobs that viewing software draws

from any angle. The model predicts the back and sides that the picture never showed. One object uses anywhere from 32,768 to 1,048,576 blobs.

Building a splat normally takes many photos from different angles; Idol needs only one. Speridlabs reports a peak of 7.2 GB of graphics-card memory. At 262,144 blobs, its tests took 19.1 seconds on an RTX 4090, a high-end gaming card, and 46.2 seconds on a 10 GB RTX 3080. In the authors' tests on one H100 data-center chip, Idol beat TripoSplat (the model it builds on), TRELLIS and LGM on 6 of 7 quality scores, which compare the result with the input picture and check seven new views. LGM ran faster, 1.1 seconds against 6.8. Idol makes single objects, not scenes, and outputs a splat file rather than a triangle mesh. Speridlabs' GitHub page reports about 18 minutes on a MacBook Air with an M4 chip at the same 262,144 blobs.

Read More: HY-World 2.0, Tencent's model that turns text or a photo into a walkable 3D world

Sources:

- Idol: Single Image to 3D Gaussian Splats (Speridlabs)
- speridlabs/idol model card (Hugging Face)
- idol-sdk README (GitHub)
- TripoSplat (GitHub)
- Speridlabs Idol Turns One Image Into a 3D Gaussian Splat (ComfyUI Wiki)

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