

ARTICULATE-ANYTHING: AUTOMATIC MODELING OF ARTICULATED OBJECTS VIA A VISION-LANGUAGE FOUNDATION MODEL

Long Le, Jason Xie, William Liang, Hung-Ju Wang, Yue Yang, Yecheng Jason Ma,
Kyle Vedder, Arjun Krishna, Dinesh Jayaraman, Eric Eaton
University of Pennsylvania

<https://articulate-anything.github.io>

ABSTRACT

Interactive 3D simulated objects are crucial in AR/VR, animations, and robotics, driving immersive experiences and advanced automation. However, creating these articulated objects requires extensive human effort and expertise, limiting their broader applications. To overcome this challenge, we present ARTICULATE-ANYTHING, a system that automates the articulation of diverse, complex objects from many input modalities, including text, images, and videos. ARTICULATE-ANYTHING leverages vision-language models (VLMs) to generate code that can be compiled into an interactable digital twin for use in standard 3D simulators. Our system exploits existing 3D asset datasets via a mesh retrieval mechanism, along with an actor-critic system that iteratively proposes, evaluates, and refines solutions for articulating the objects, self-correcting errors to achieve a robust outcome. Qualitative evaluations demonstrate ARTICULATE-ANYTHING’s capability to articulate complex and even ambiguous object affordances by leveraging rich grounded inputs. In extensive quantitative experiments on the standard PartNet-Mobility dataset, ARTICULATE-ANYTHING substantially outperforms prior work, increasing the success rate from 8.7–12.2% to 75% and setting a new bar for state-of-the-art performance. We further showcase the utility of our generated assets by using them to train robotic policies for fine-grained manipulation tasks that go beyond basic pick and place.



Figure 1: Given text, images, or videos showing an object’s motion, ARTICULATE-ANYTHING automatically generates its 3D interactable digital twin, handling a wide variety of objects and affordances. Among other applications, these articulated assets can be used to train robotic manipulation policies in simulation. Full video demonstrations and source code are available on the website.

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