

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

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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.

Articulate Objects Articulate Objects

Katrin Zwirgmaier



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Articulate Objects Aura Satz, Jon Wood, 2009 How do objects speak to us What happens to authorship when voice is projected into inanimate objects How can one articulate an object into speech Is the inarticulate body necessarily silent These are just some of the questions brought up by this unique and unusual collection of essays which presents subjects and categories often overlooked by the disciplines of art history visual culture theatre history and comparative literature Drawing from and expanding upon the Performing Objects Animating Images academic session run by the Henry Moore Institute at the Association of Art Historians conference held in London in 2003 this book presents thirteen essays that bring together a multidisciplinary approach to the animated object Contributions range from literal accounts of magic lanterns tableaux vivants puppets and ventriloquist dummies to the more abstract notions of voice displacement in audio art and authorship projection in writing machines The contributors come from diverse backgrounds in art history cultural history comparative literature and artistic theatrical and curatorial practice and all tackle the issue of articulate objects from a range of lively and unexpected perspectives

Articulated Motion and Deformable Objects Francisco J. Perales, Edwin R. Hancock, 2003-08-02 This book constitutes the refereed proceedings of the Second International Workshop on Articulated Motion and Deformable Objects AMDO 2002 held in Palma de Mallorca Spain in November 2002 The 21 revised full papers presented were carefully reviewed and selected for inclusion in the book Among the topics addressed are geometric and physical deformable objects motion analysis articulated models and animation visualization of deformable models 3D recovery from motion single or multiple human motion analysis and synthesis applications of deformable models and motion analysis face tracking recovery and recognition models

Articulated Motion and Deformable Objects Hans-Hellmut Nagel, Francisco J. Perales Lopez, 2006-12-31 This book constitutes the refereed proceedings of the First International Workshop on Articulated Motion and Deformable Objects AMDO 2000 held in Palma de Mallorca Spain in September 2000 The 15 revised full papers presented were carefully reviewed and selected for inclusion in the book As the first book devoted to articulated motion and deformable objects this collection covers the following issues geometry and physics of deformable objects motion analysis articulated motion and animation visualization of deformable models 3D recovery from motion single or multiple view human motion analysis and synthesis and applications

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