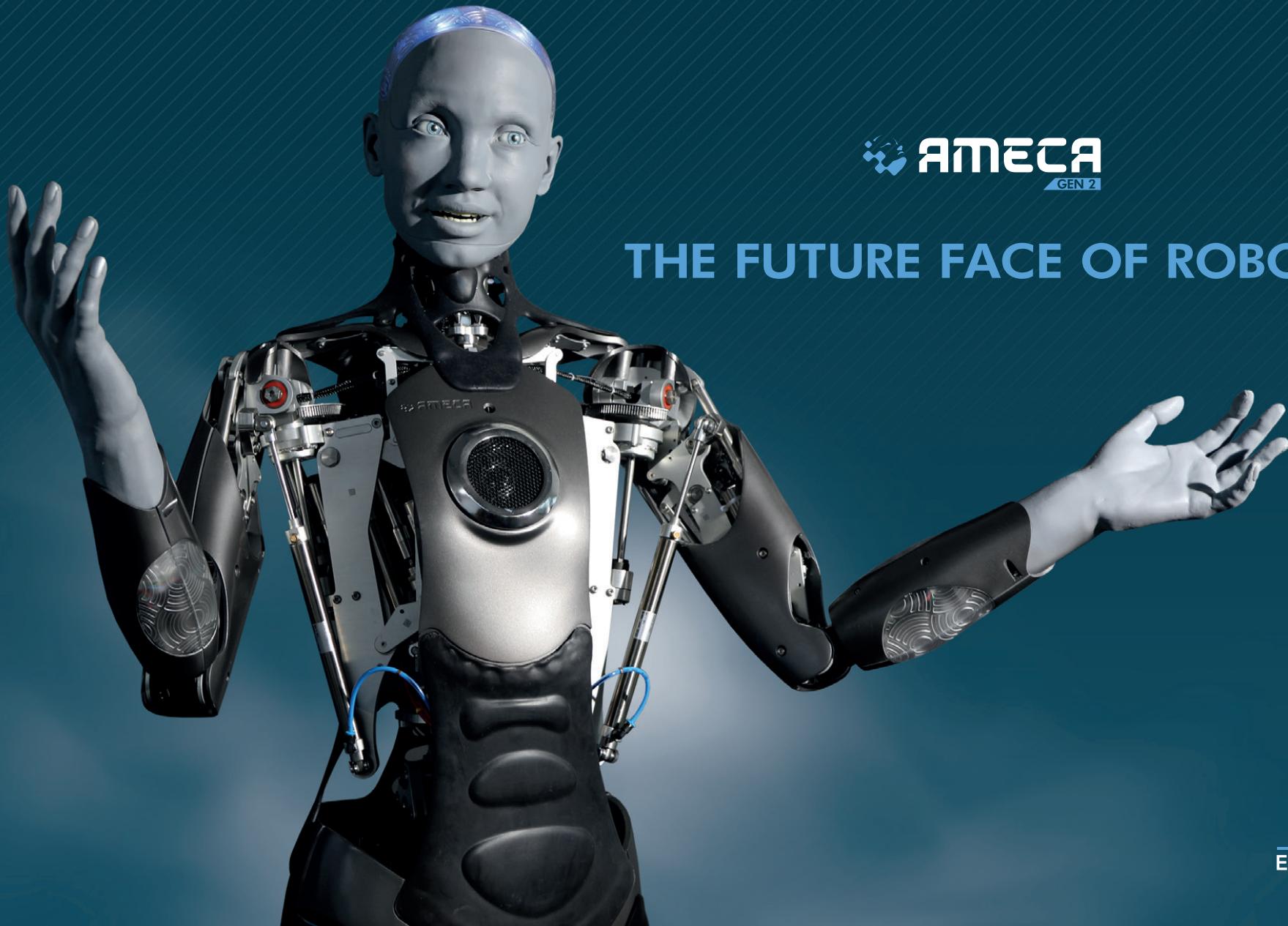




THE FUTURE FACE OF ROBOTICS

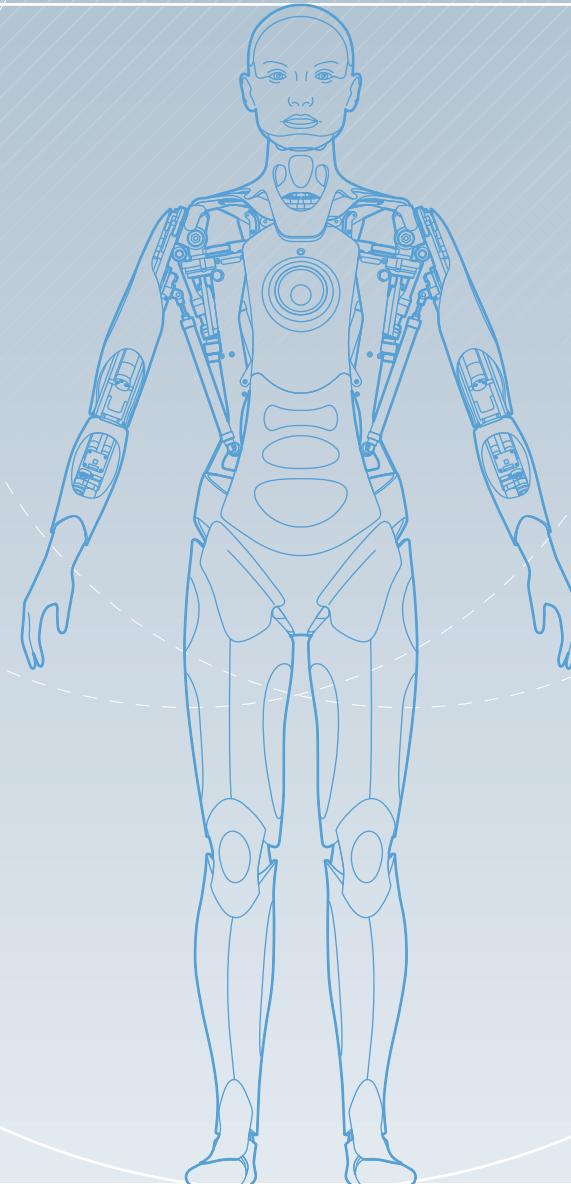


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Introduction

Ameca is the world's most advanced robot with a truly human form. A robot at the forefront of humanoid robotics technology.

Ameca gives us a glimpse of the future and provides a reliable hardware platform to develop new AI and machine learning technologies.

A human form with a robotic visage, exposed mechanical, structural, and aesthetic elements. Neutral coloured silicone face and hands convey unparalleled expression.

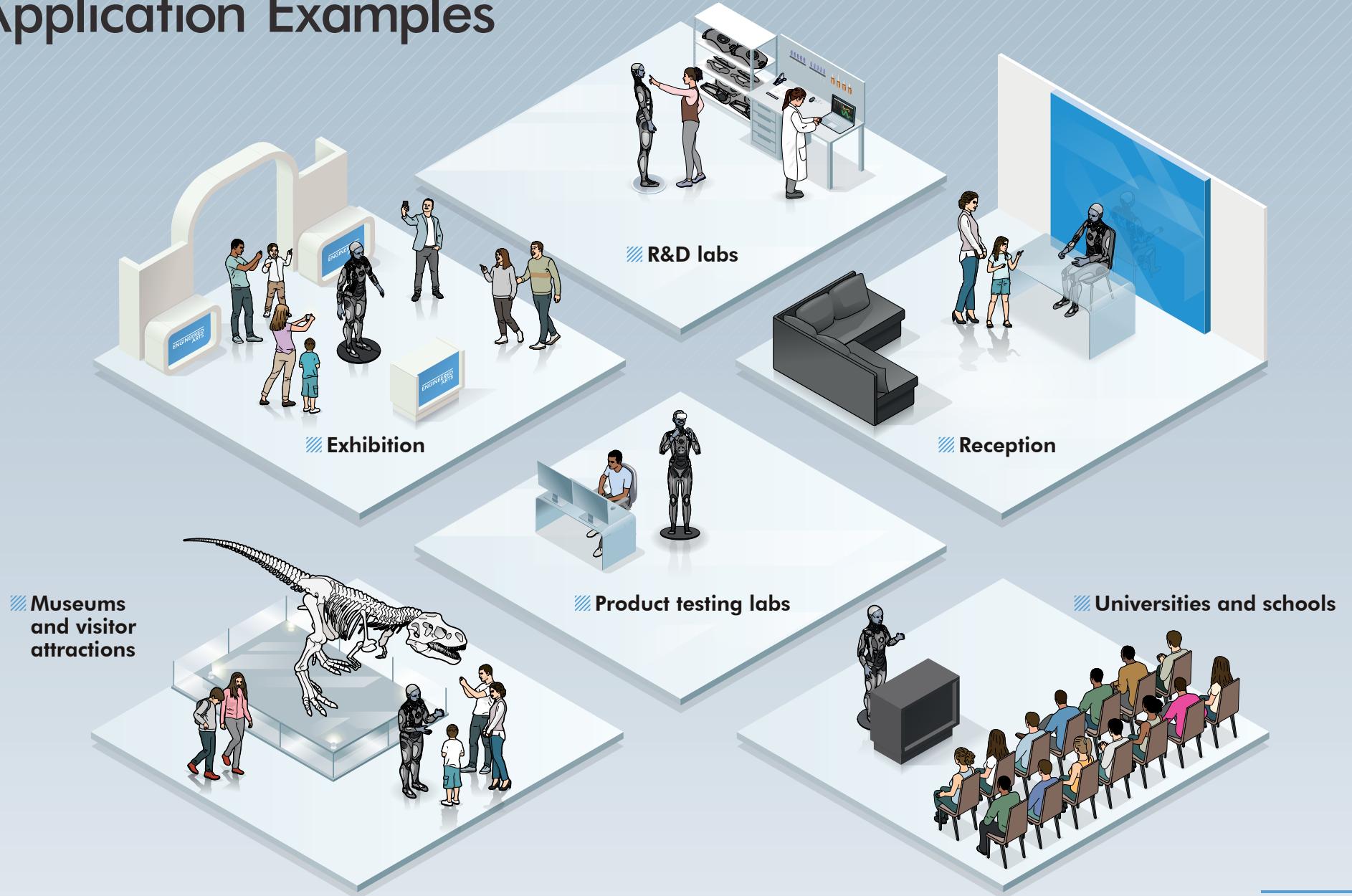


The first generation Ameca was released in early 2022 and instantly won the hearts and minds of the world, racking up tens of millions of views on social media.

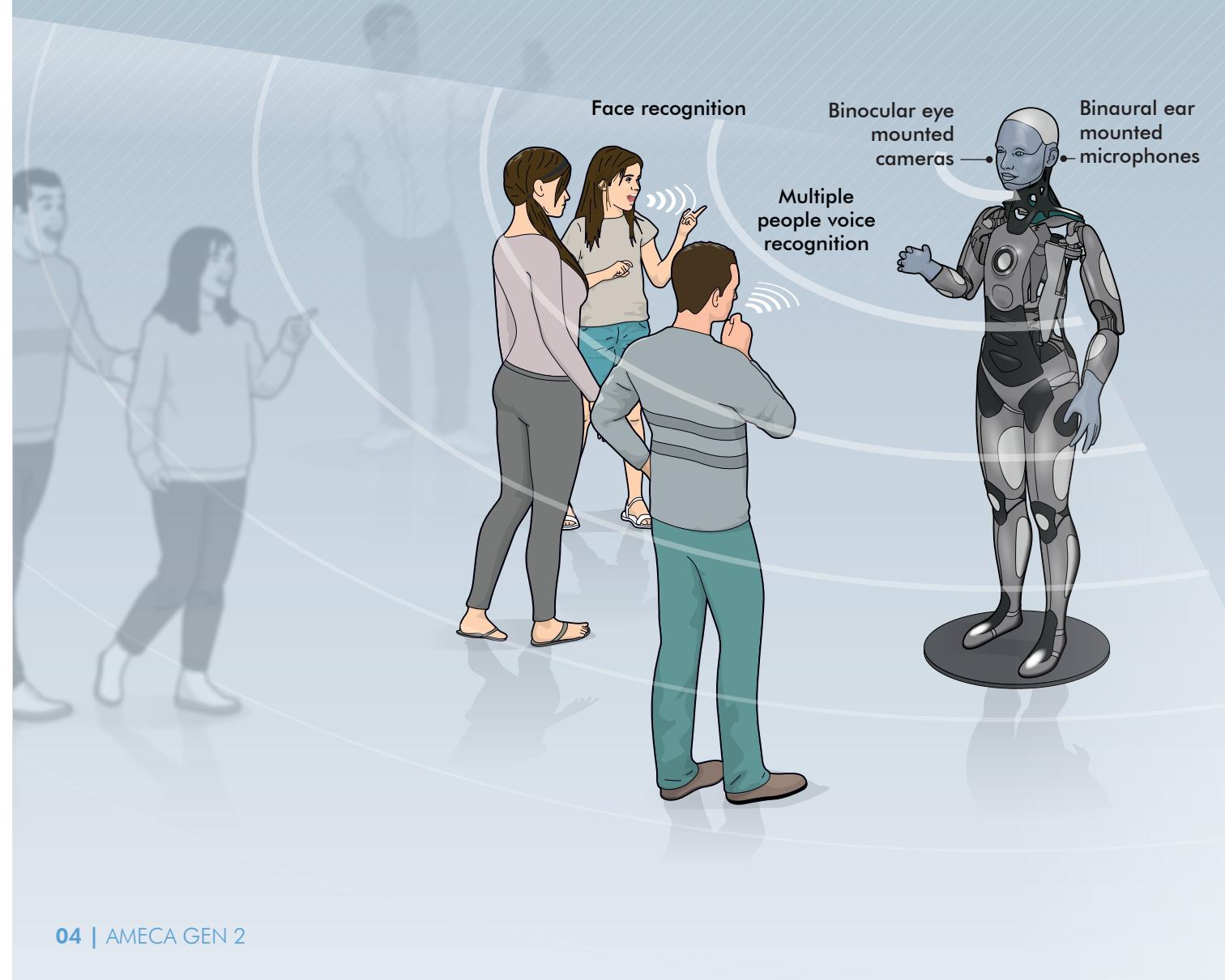
The second generation builds upon the successful platform by greatly increasing the fidelity of the face, giving unmatched expressive capabilities and superior lip synchronization.

With intelligence built in, and a powerful cloud-centric software suite, Ameca is the perfect platform to develop advanced interactions and behaviours.

Application Examples

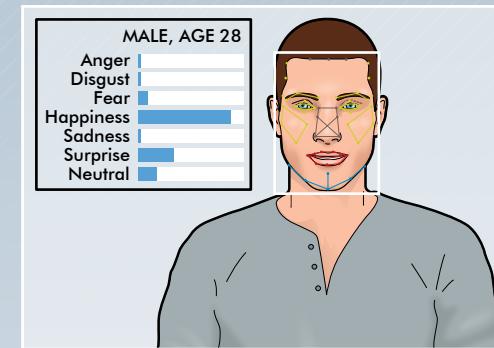


Key Features



Recognising face expressions

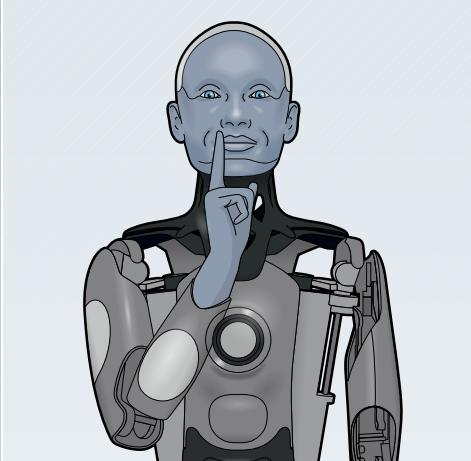
Camera detects faces and then uses face tracking and action units to accurately provide gender, emotions and age



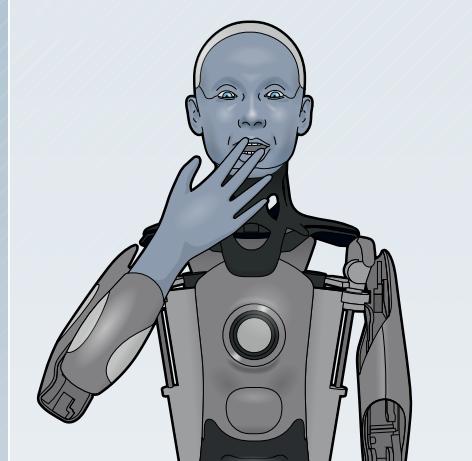
AI integration

Integration of leading large language models creates the most compelling conversational AI experience

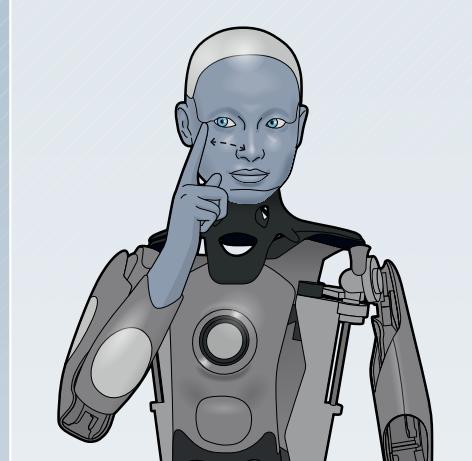
Ameca Gestures Examples



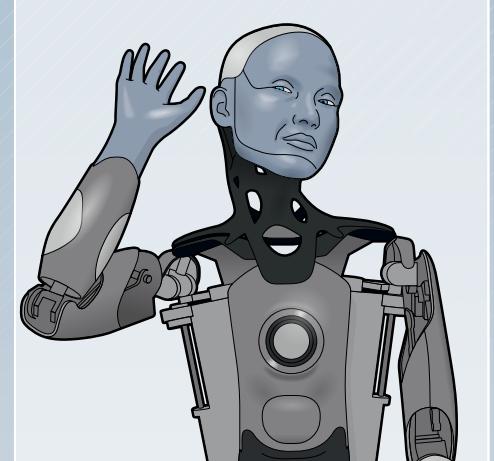
Quiet Please



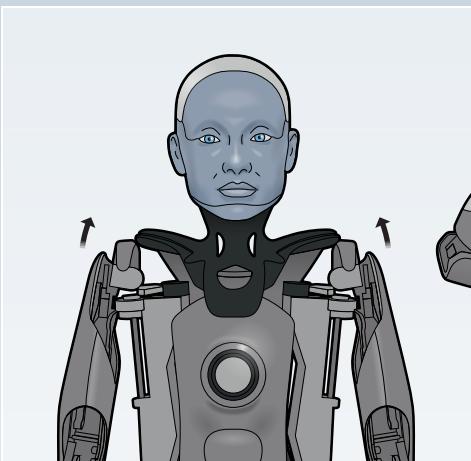
Gobsmacked



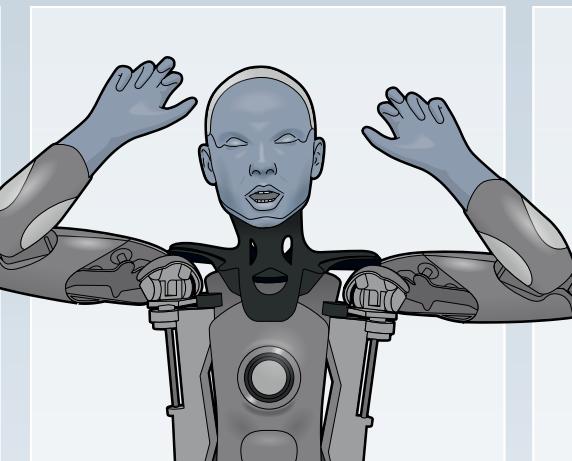
Nosey



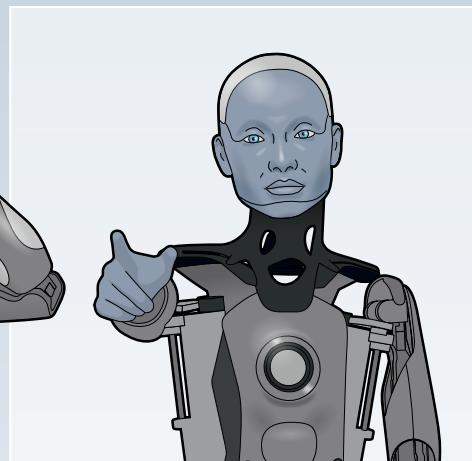
Say again louder



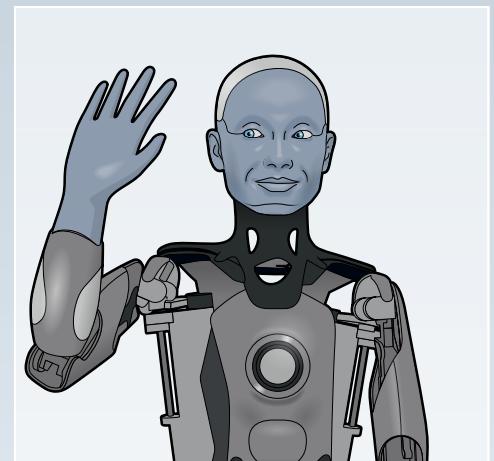
Shrug



Yawn

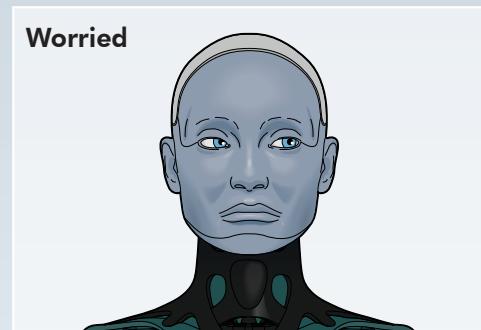
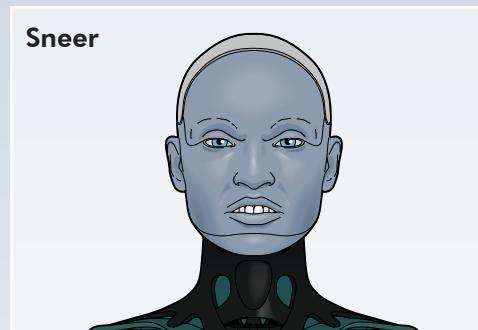
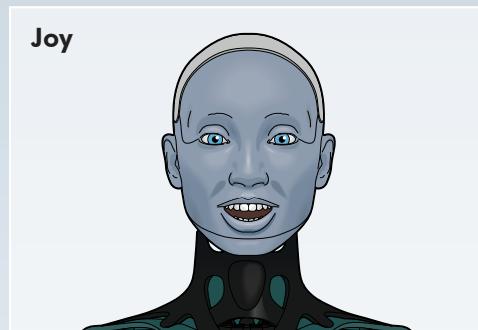
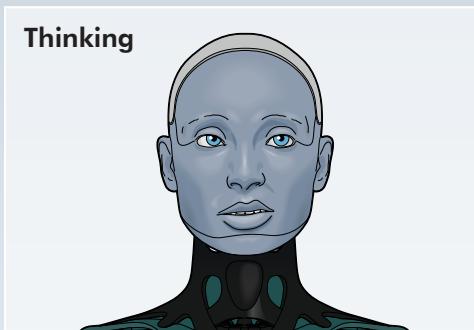
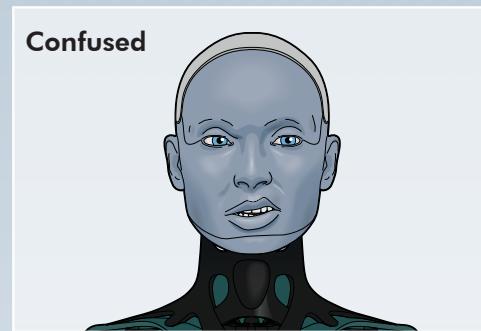
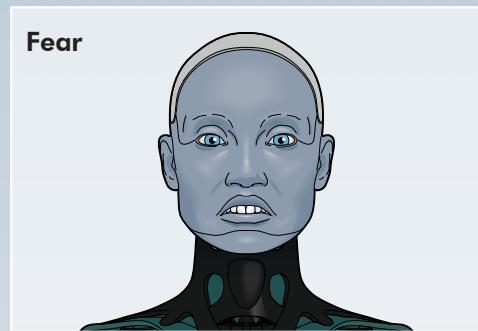
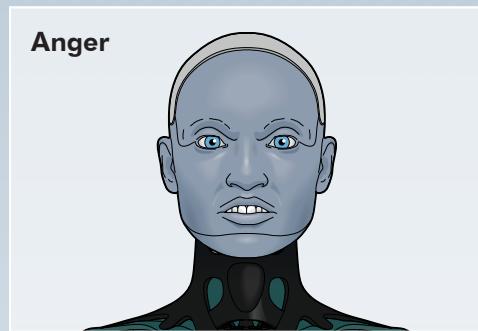
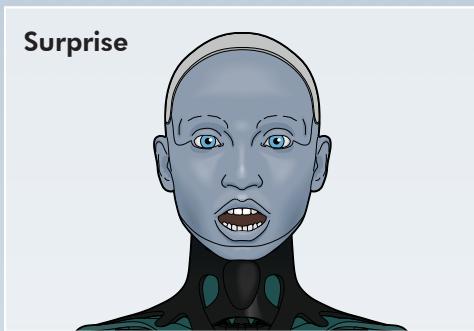
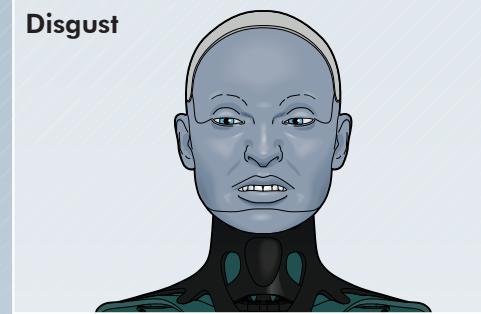
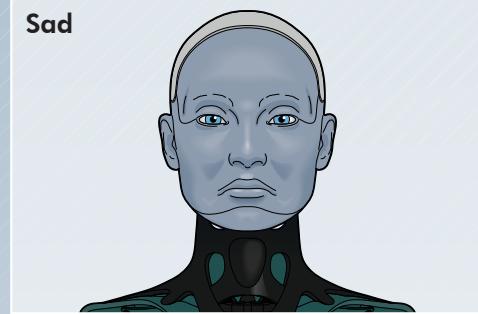
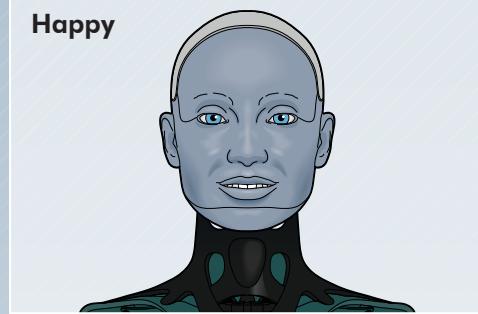
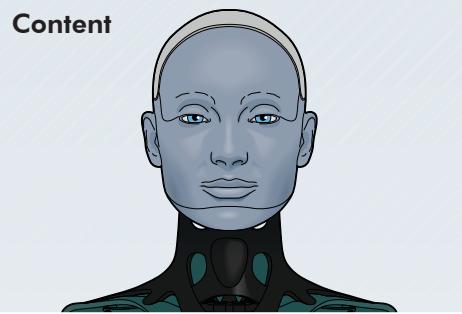


Point



Wave

Expressions Examples



Tritium

Ameca is powered by our most advanced operating system to date, Tritium 3.

Built from the ground up with a cloud connected focus, integration of new and innovative digital technologies is simple.

Any robot running Tritium 3 can benefit from the very best the tech world has to offer.

All of the software interfaces run in browser, no installation is necessary and access is global.



Animator and Viz

- 3D visualization and simulation tools
- Create and play your animations
- View the real and digital Ameca side-by-side

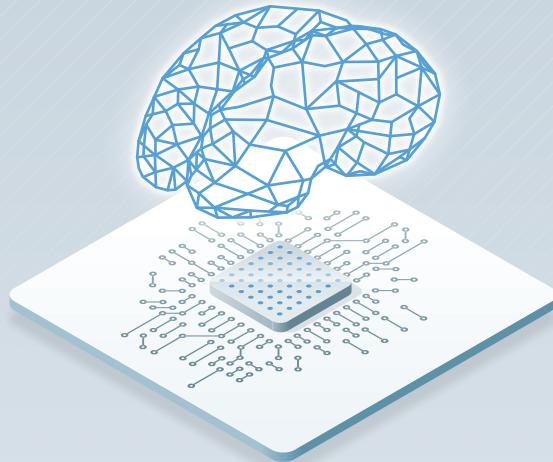
Development tools

- Develop using Python directly on the robot
- Real-time visualization of thousands of parameters
- Error reporting and log management

Fleet management

- More robots? No problem! Manage them all in one place
- Tritium is designed to run any hardware, not just Ameca
- See what's up with your robots anytime, anywhere

AI or NI?



Artificial Intelligence

Ameca can be not just the voice, consider "real physical presence", "real body", "embodiment", "real body and voice" of the best artificial intelligence around.

Easy integration of new cloud, edge and local AI services such as large language model transformers, NLPs, automated speech recognition, text-to-speech engines, translators, visual object recognition, face recognition and many more make it the perfect platform for technology demonstrations, and can even create a truly helpful humanoid.



Natural Intelligence

AI is great, but it doesn't beat a human for emotional intelligence, entertainment and creative thinking.

Using the Tinman remote operation features built into Tritium, an operator can virtually inhabit Ameca from anywhere in the world. With automated gesturing and gaze using face tracking technology anyone can learn to control a robot in minutes. Ameca will even mimic the operator's face in real-time for a truly natural conversational experience.

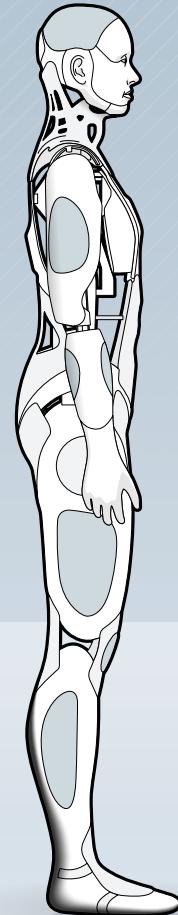
Technical Specification



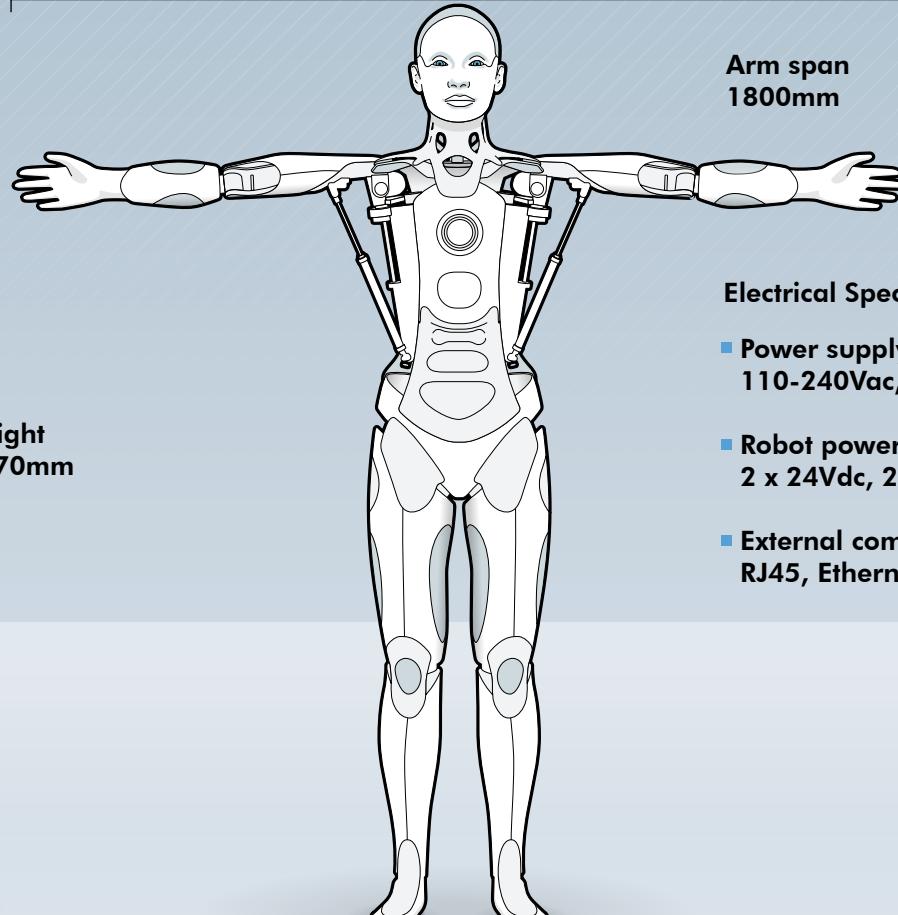
Mass
49Kg



61 articulated
movements



Height
1870mm



Arm span
1800mm

Electrical Specification

- Power supply input
110-240Vac, 50/60Hz, 400W
- Robot power supply
2 x 24Vdc, 200W
- External communication
RJ45, Ethernet

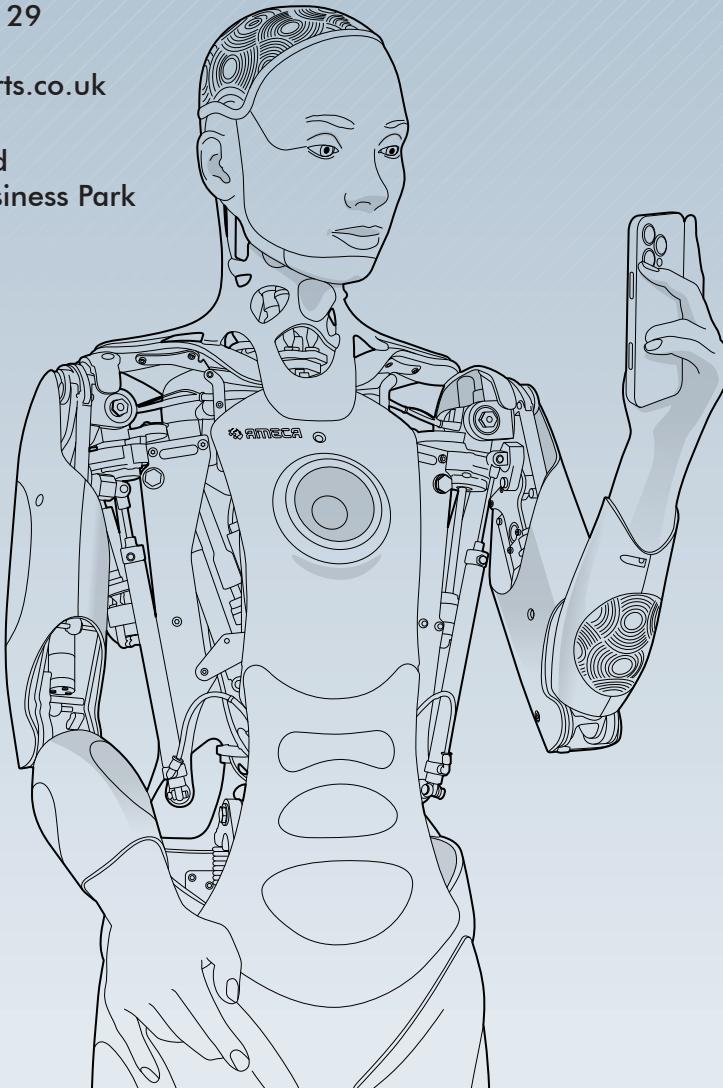
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