As much as playing an instrument, conducting is a craft. Maestro is computer software that lets conductors practice without an orchestra—artificial intelligence adapts orchestral audio output in real time, so conductors can get a full rehearsal experience from the comfort of their own home. Especially in the pandemic, this tool is indispensable for anyone without access to a full orchestra who’s looking to hone their conducting skills.

Maestro implements motion capture and language processing technology for an immersive and interactive conducting experience. Both live video feed and the MaestroGlove can be used for motion input: the virtual orchestra automatically changes tempo and volume with registered movement. Users can also issue vocal commands for Maestro to simulate, adding another layer of realism to the conducting experience.

Beyond its functional capabilities, Maestro boasts a burgeoning forum where users can share tips on the software, conducting, or music in general. "Performance" videos for each of Maestro’s preset pieces can be found here as well, an invaluable resource for new and experienced conductors alike.
How to Use Maestro

1. **Set up motion input.** Use Maestro's video calibration wizard to sync movement from your computer camera's live video feed. Follow the instructions as directed so the system can adapt to your personal conducting style. Alternatively, connect the MaestroGlove via Bluetooth to your computer, then sync in the application.

2. **Set up audio input.** For vocal commands, first use the audio calibration wizard so Maestro can learn your voice. Input sample phrases as directed as a starting point for the algorithm.

3. **Start Conducting!** Pick a piece from the preset list to open a session. Press play, and let out your inner Maestro! Faster gestures will increase the speed of the audio playback, and vice versa. Larger movements will increase the volume of playback, and vice versa.

4. **Share your performance.** Consult Maestro's Forum, navigable from the homepage, for community videos of conducting performances, orchestra included. Copy presets from a video into your own session with the click of a button. Upload your own video by using the record feature at the top left of the session interface. Conducting performances from the Maestro team for each preset piece can also be found in the Forum, as well as community discussions on the preset pieces, the software, and conducting practice.

Additional features:
- Free sheet music: annotatable scrolling score in each session
- Space manipulation: choose acoustics from dozens of venues worldwide
- Manual controls: adjustable section balance, articulation, vibrato, timing
- Cross-platform compatibility: available on macOS, Windows, Linux