

Vocal clones

Recently announced

Microsoft VALL-E software:

- can mimic a particular voice from 3-second sample
- not yet released

Eleven Labs

- Voice generator released in January
 - Speech synthesis
 - Text-to-speech
- Started by ex-Google and ex-Palantir engineers
- Used to replicate voices of pop stars
- Fake examples posted on 4chan
- Charges per 1000 characters

Lots of hybrid experimentation

- Voices cloned, music not cloned
- Mashups
- Duets by real and virtual singers
- Lyrics generated by AI software
- Myriad IP (Intellectual property) issues; voices are not copyrighted

More cloning styles

Human song, GPT lyrics

Software to isolate voice from other tracks

RIAA is protesting on several grounds

Holly Herndon: Holly+

CCRMA c2012

Lives in Berlin

Holly+ reinterprets songs in her voice

Users can download audio and hear download in Herndon's voice

She warns against signing away “voice rights”

“Jolene”: <https://youtu.be/kPAEMUzDxuo>



Julie Herndon

Recent CCRMA Ph.D.
Teaching in Cal Poly, Sn Luis Obispo

2

imitate cello by watching
bow: tip, bouncy words (poco spiccato)
LH: low
brief: slow getting faster

to speak
LH: low → middle

stretching words = syllable

4p. (V: brief, slow and getting slower)

imitate cello sentences by closing eyes and listening
bow: tip, bouncy words (poco spiccato)
LH: low
brief: getting slower

bow: tip, bouncy words (poco spiccato)
LH: low
brief: slow getting faster

4

imitate violin II but quieter
bow: middle, on bridge
LH: low
III: brief, fast, to audience

imitate viola
bow: middle
LH: low
verbose, slow, lugubrious

bow: middle, on bridge
LH: low
III: brief, fast, to audience

medium, fast, to violin I, accel.

explosive, but dainty
(repeat ad lib.)

bow: ad lib. frog
LH: low
alternate III and IV: verbose, slow, lugubrious to violin II

middle
LH: low
to cello

to violin II

bow: frog (ad lib.)
LH: low
alternate III and IV: verbose, fast, to self

tip
high
a little frenetic

allowing some words to push into *mf*

* whistles, holding some words into longer tones



Vocify

Create AI covers with your favorite voices

<https://www.voicify.ai>

\$24.99/month, more for “creators”

Boomy

AI-audio software allowing user set up some parameters (style, tempo, et al.)

- Has generated 15 million songs
- 14% of Spotify's holdings recently purged of Boomy creations

