VOSIM
A simple and fun synthesis method inspired by the voice

- Voice-inspired technique.
- Developed in 70’s by Kaegi and Tempelaars
- What happens when a glottal pulse hits a resonance?
  - Answer: exponentially damped sinusoid
VOSIM Parameters

- VOSIM uses a pulse train of $\sin^2$ pulses.

![Graph showing VOSIM parameters with a pulse train and decay factor](image)

VOSIM Application

- One formant (resonance) per VOSIM oscillator
- $T$ gives formant position
- $M + NT$ is period
- Tempelaars used various “delta” or “increment” parameters to get change over time
- See vosim.sal example code
- Some sounds on youtube: [https://www.youtube.com/watch?v=7GetTjx96D0](https://www.youtube.com/watch?v=7GetTjx96D0)