



# VOSIM

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A simple and fun synthesis method inspired by the voice



# VOSIM

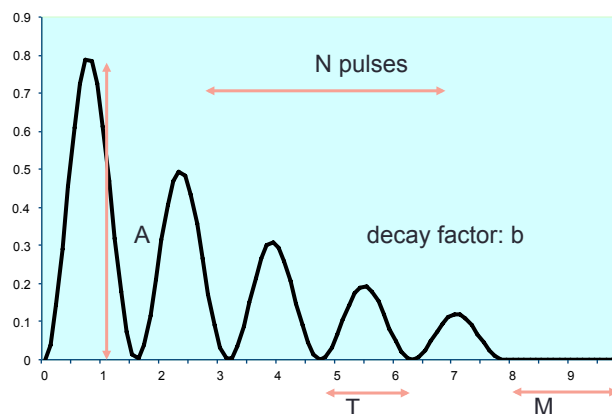
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- Voice-inspired technique.
- Developed in 70' s by Kaegi and Tempelaars
- What happens when a glottal pulse hits a resonance?
  - Answer: exponentially damped sinusoid



## VOSIM Parameters

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



ICM Week 9

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## 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>

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