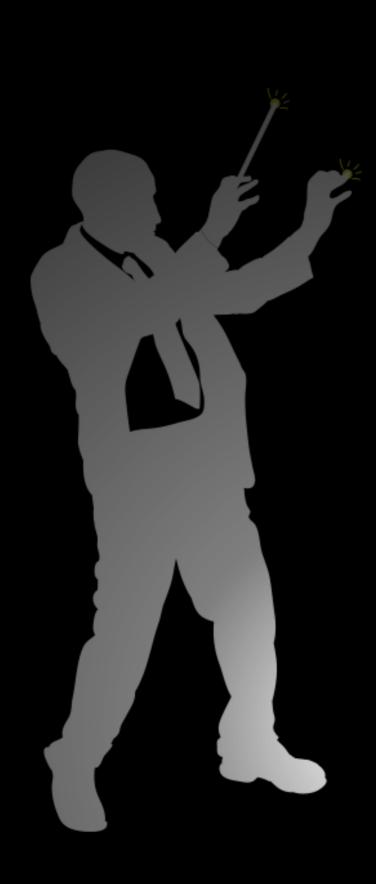
Maes/ro

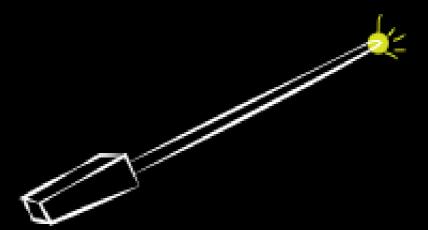




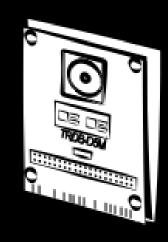




Glove LED Light



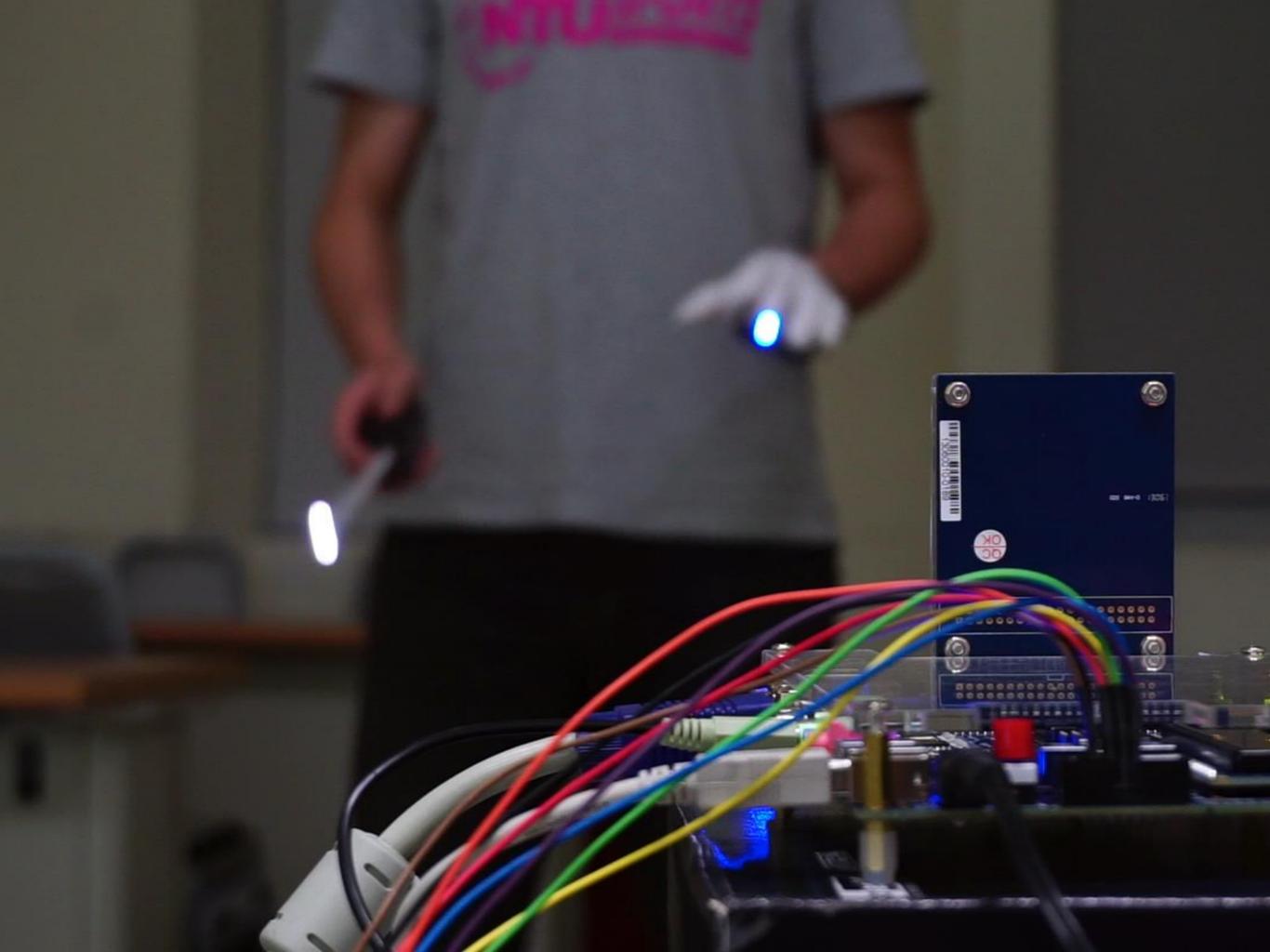
Baton LED Light

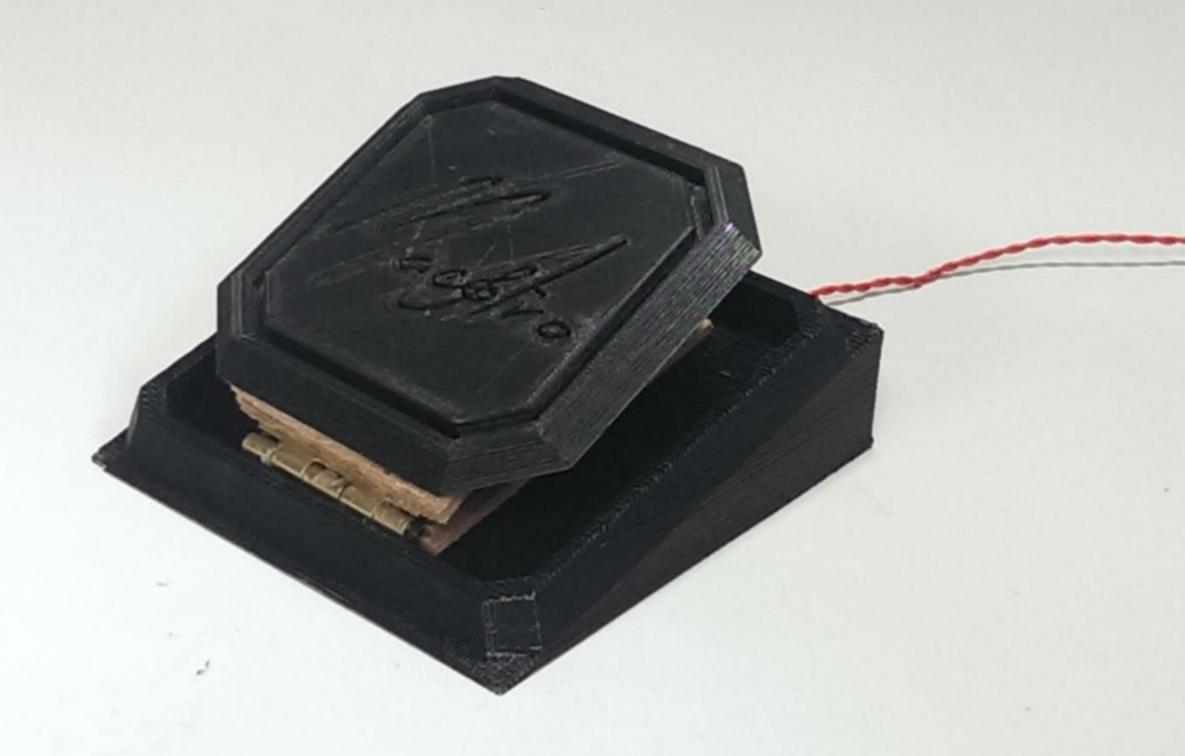


D5M Camera



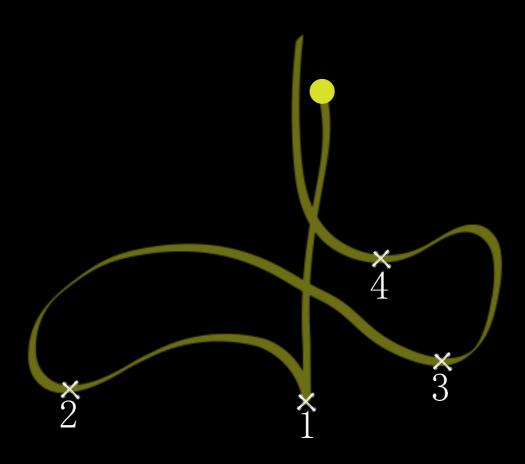
Volume Pedal



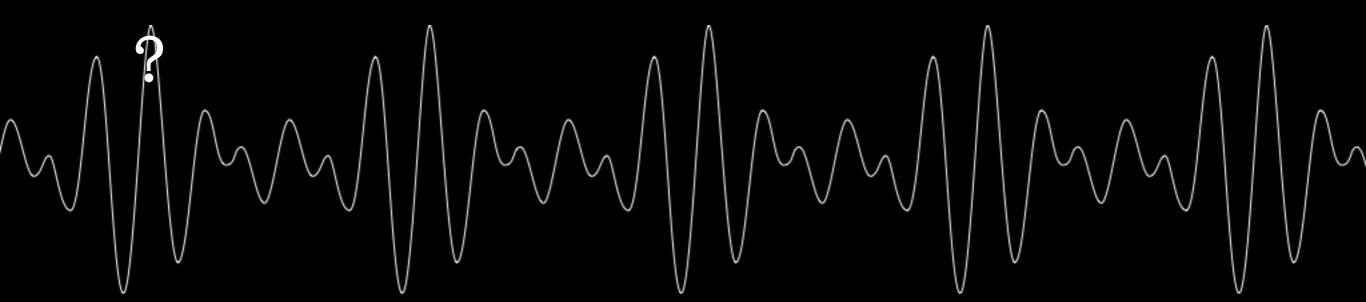


How to

Recognize the conductor's gesture ?

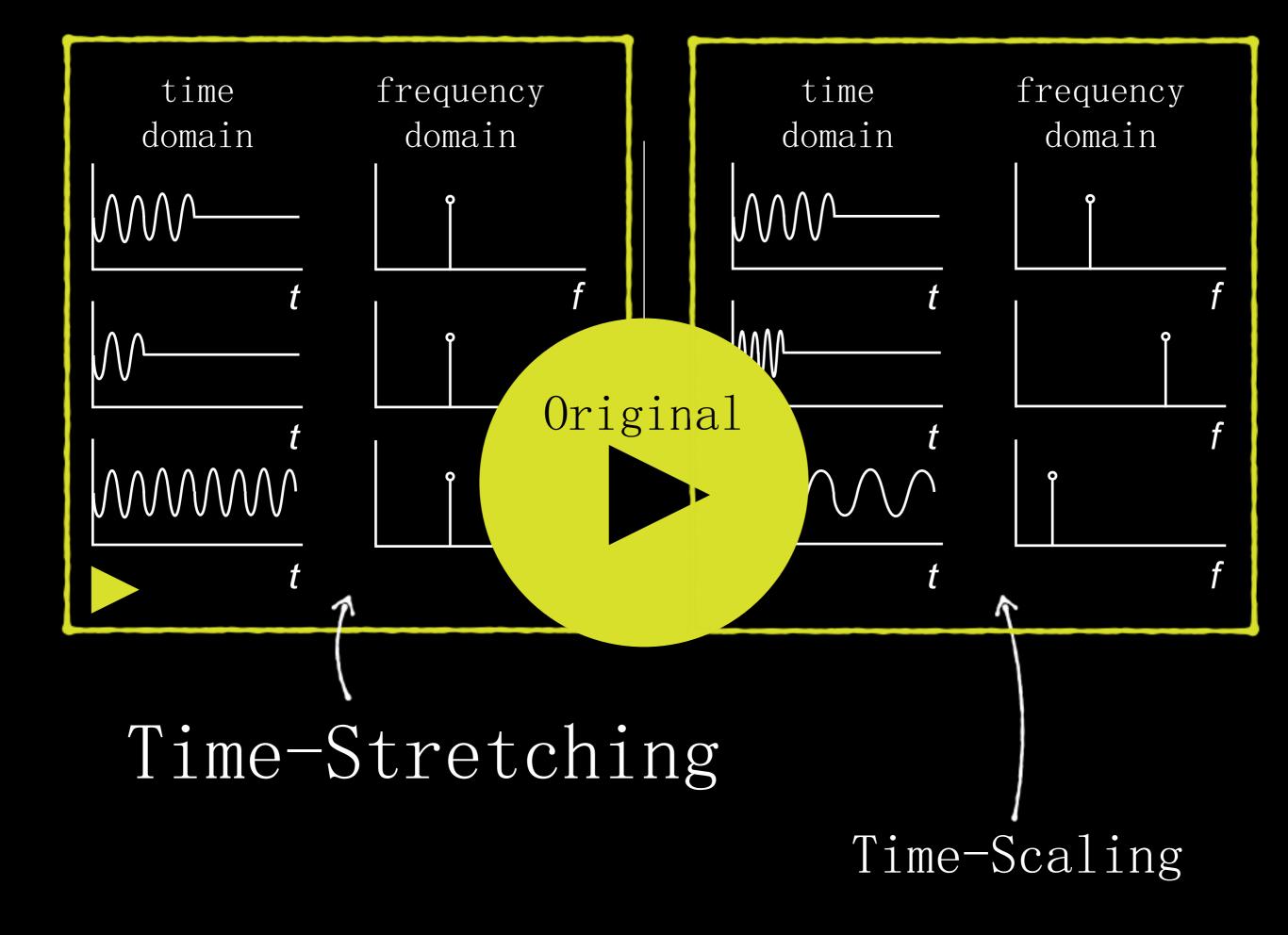


How to modify the music tempo without changing the pitch



Time-Stretching!

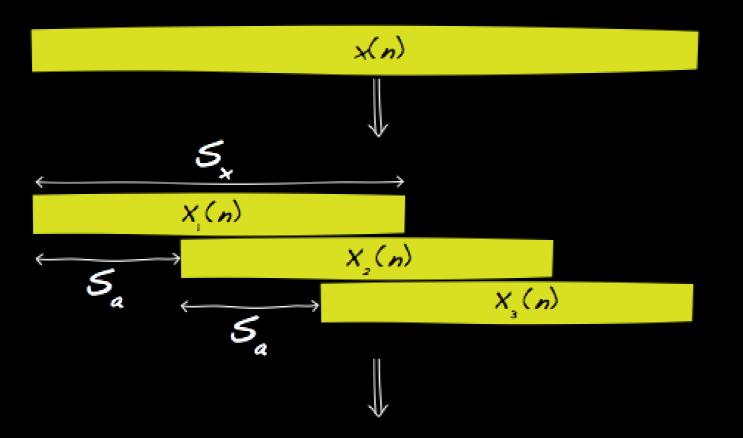
· · · not Time-Scaling

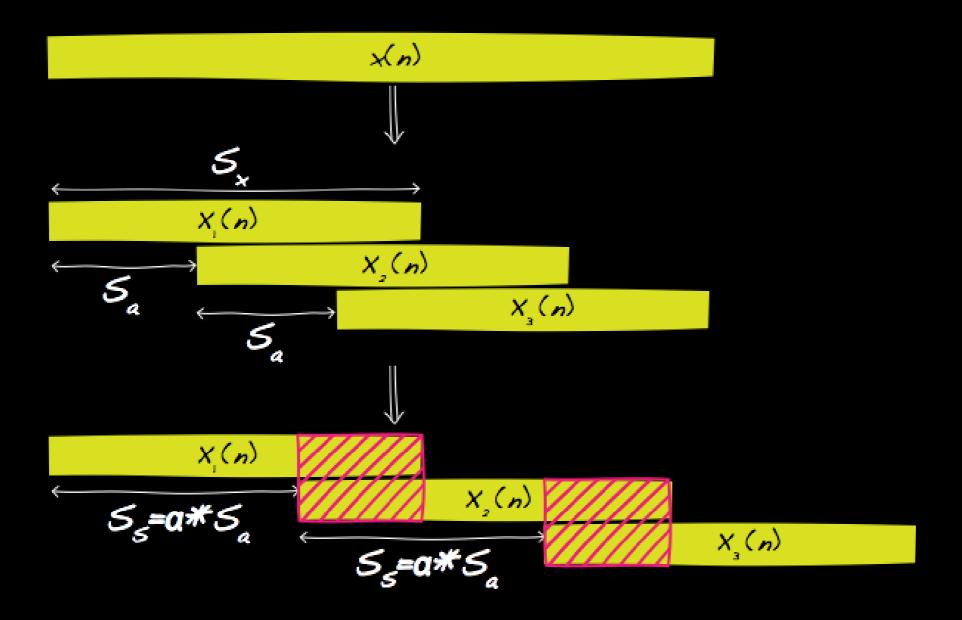


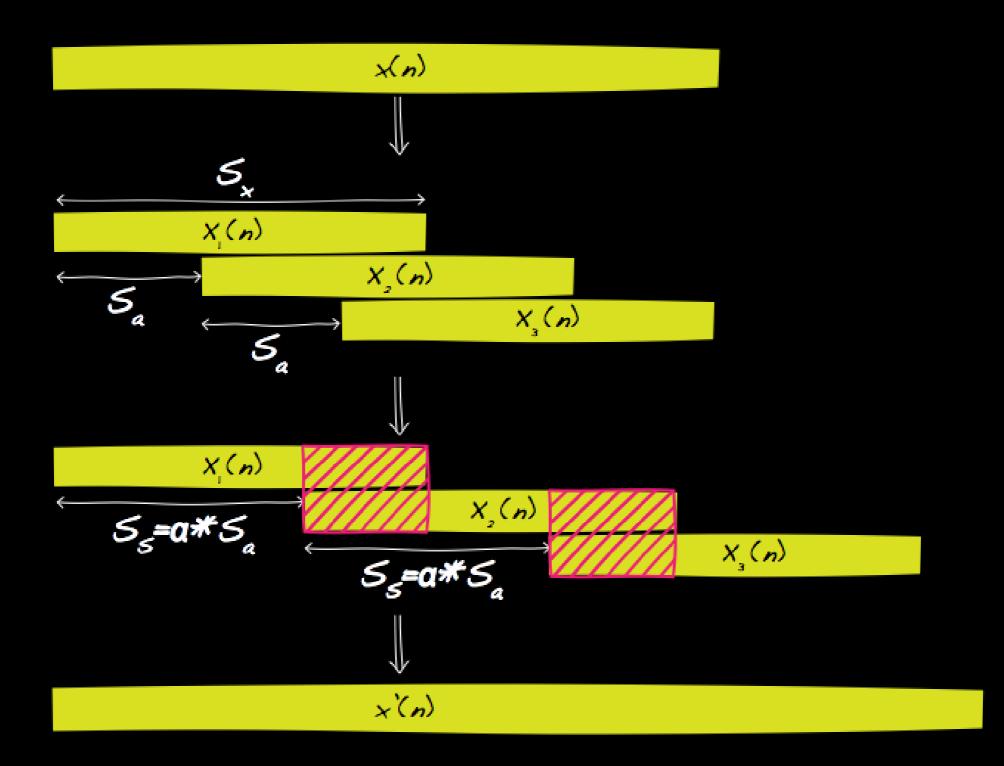
SOLA algorithm

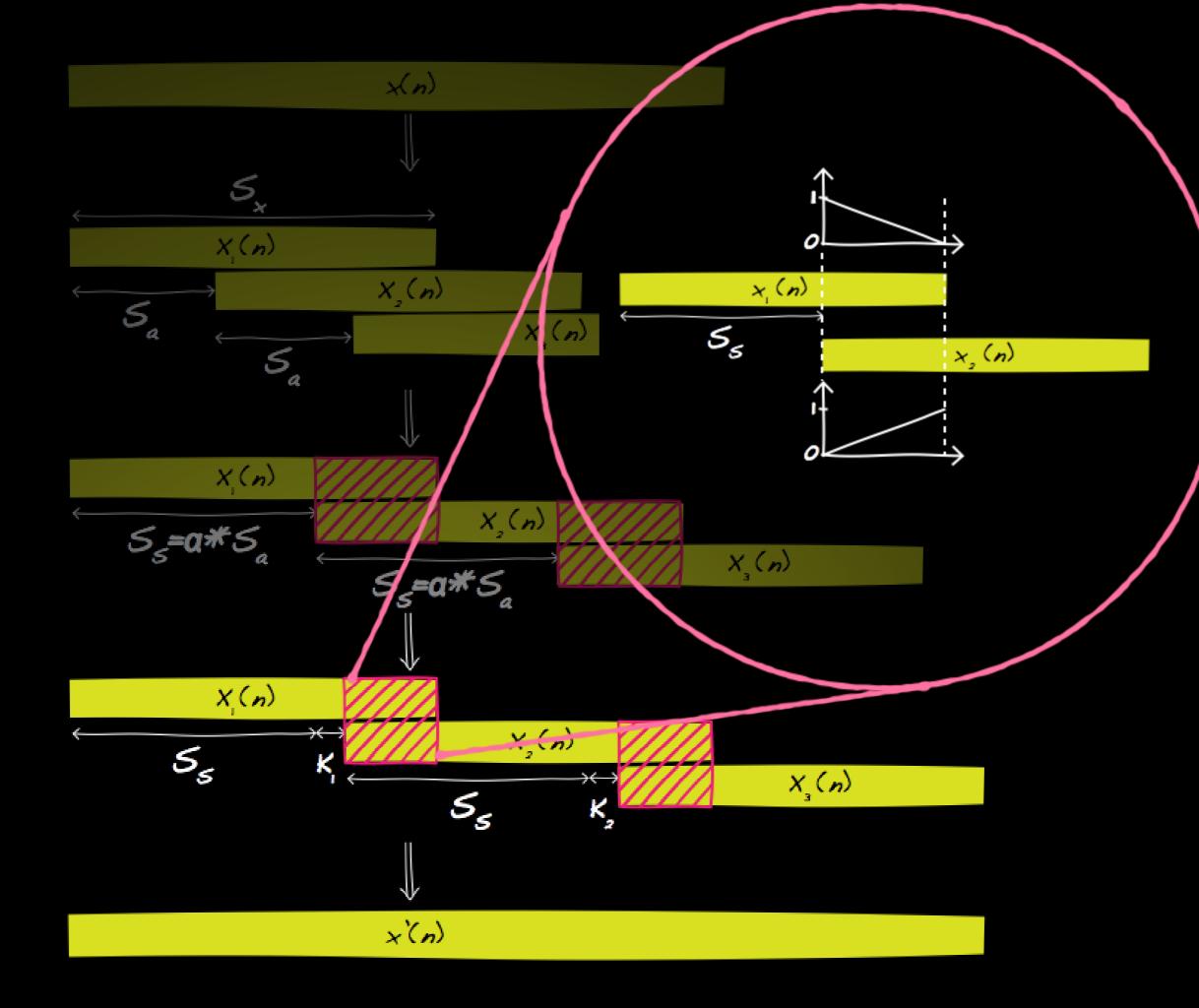
Synchronous Overlap and Add







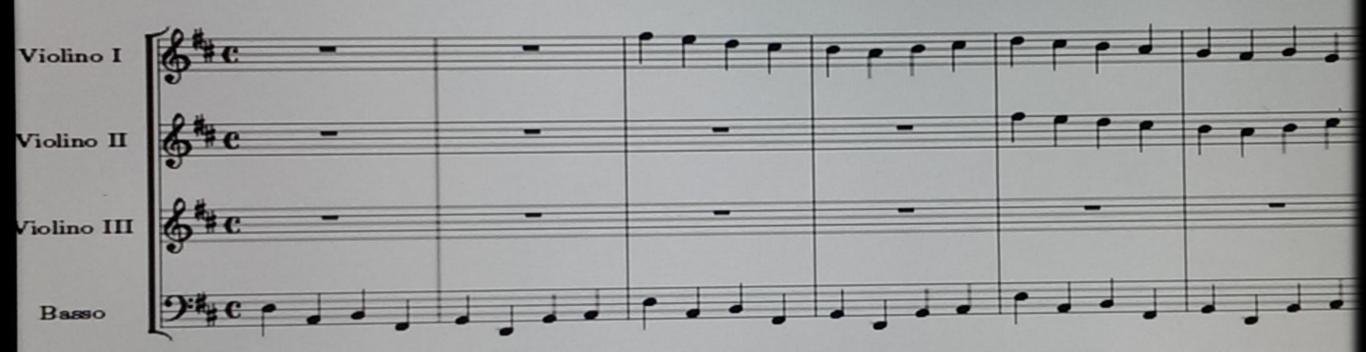






• Tempo Modification

Pachelbel, Canon in Prajor

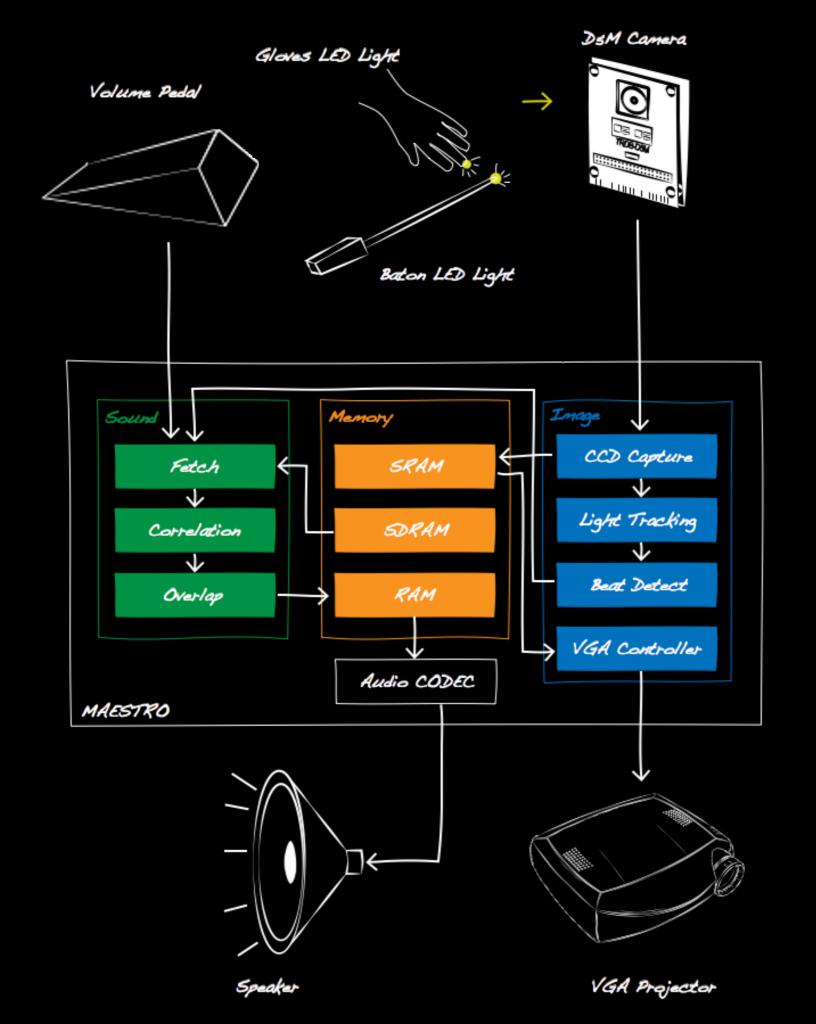


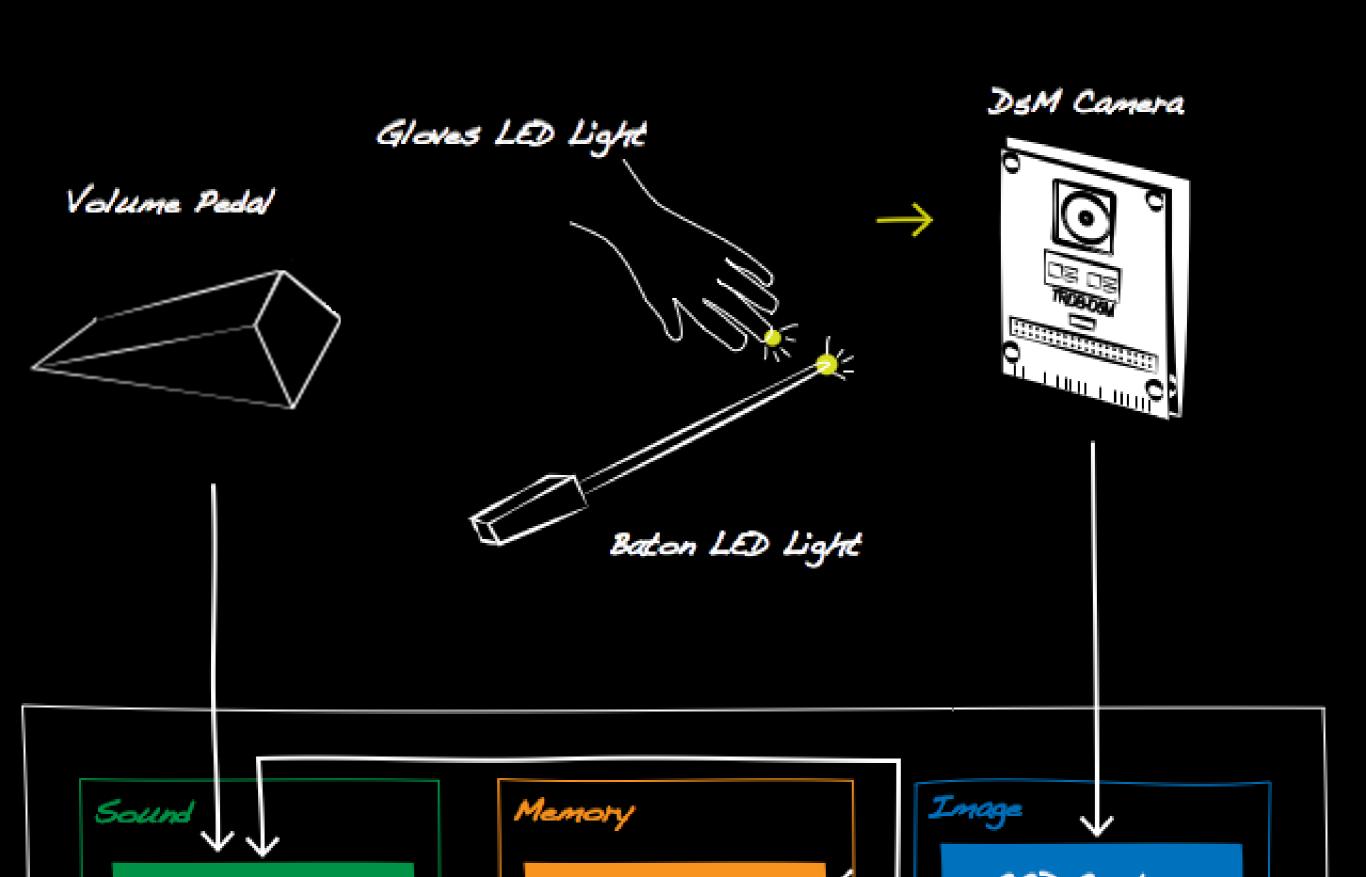
Strength of SOLA algorithm

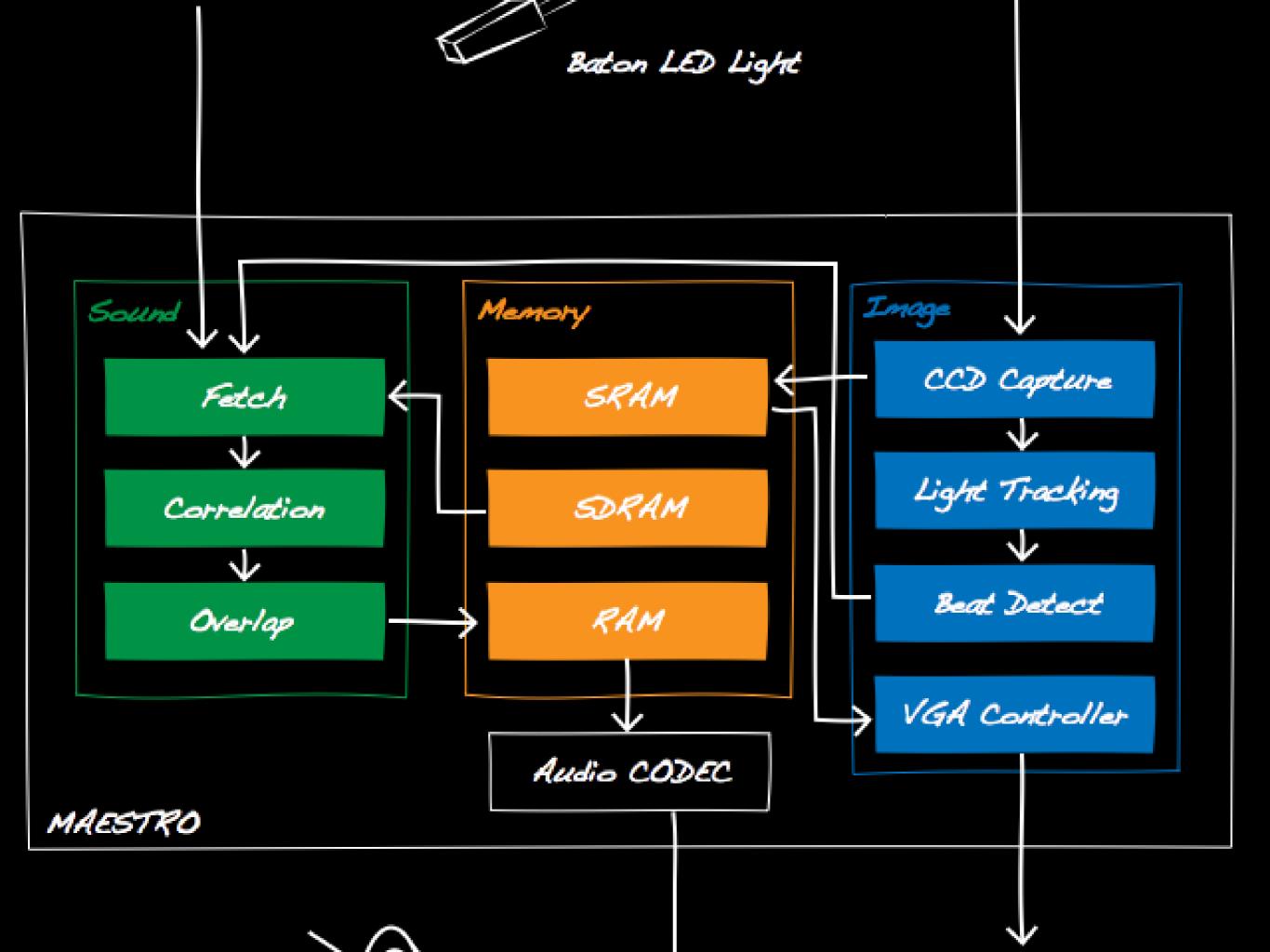
- Real-time processing

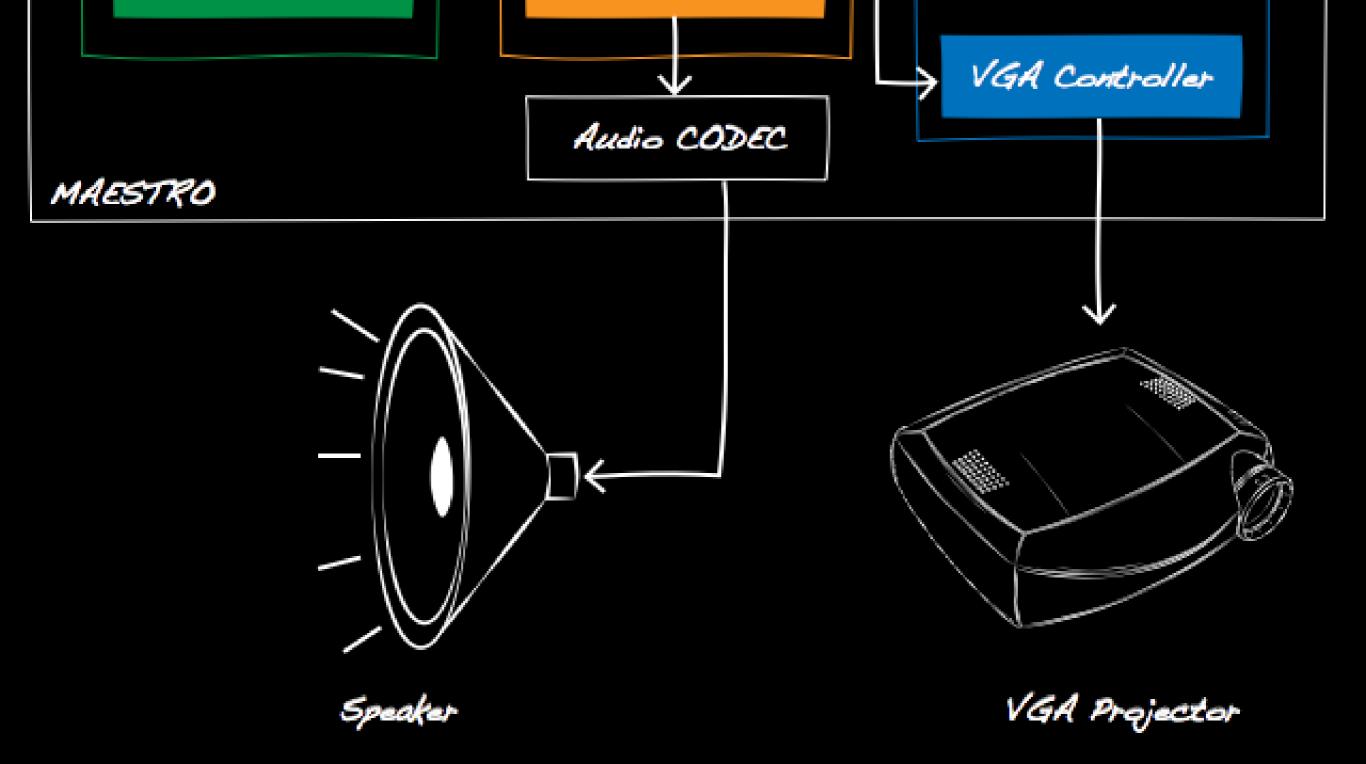
For each Music Data segment

Music Processing	Audio CODEC
64, 326 cycles	1,280 cycles
50 MHz	32 kHz
1.06 ms	39.05 ms









Thank you for your listening