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exoskeleton for learning music









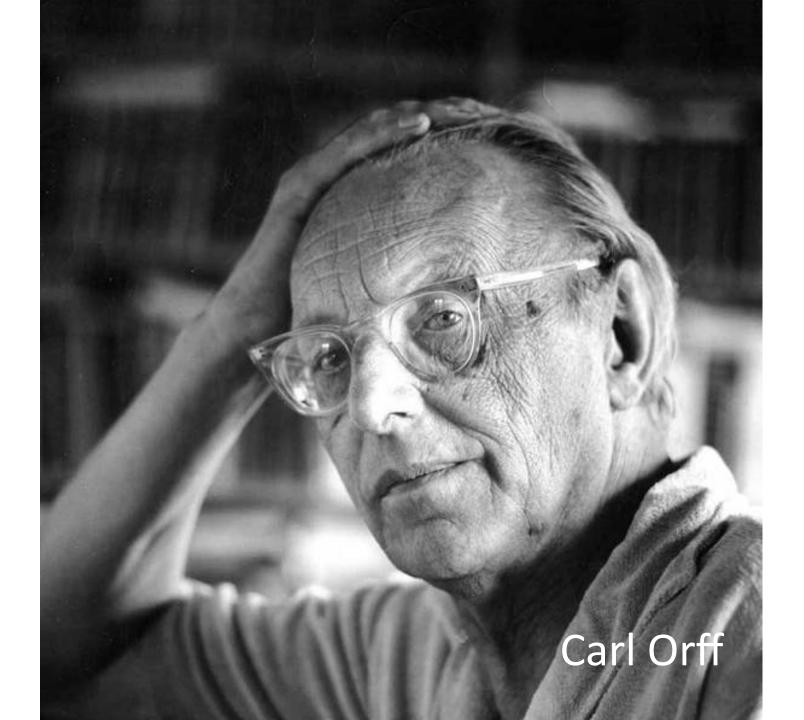




Camera tracked violin bowing

Tanjo, Ando et al 2011







.Exploration

pick up any instrument, learn by exploration, make mistakes – make music

.lmitation

instant gratification by playing live music

.lmprovisation

refer and cues, review

.Composition

share

.Exploration

suggest chords, rhythm beats over bone transduction

.lmitation

suggestive play

.Improvisation

audio cues

.Composition

review ,share

.Analogue

no digital alteration to the instrument, pure acoustic music

.Sensing

camera free, resistive -current/voltage sensing, take out in the open

.Dexterity

subtle force based actuations with exposed fingers, free motion

.EarFree

listen through body, no headphones, personal and true to music



.Exoskeleton

Actuation
Sensing
Ergonomics

.Music

Orff school

.Teach

Exploration
Different instruments
In the open
Process based

