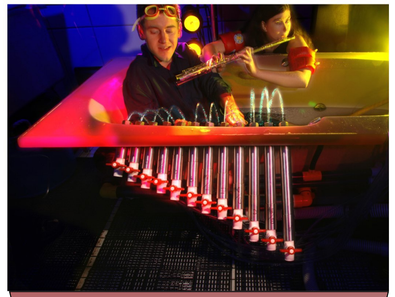
Kinematics and Musical Instruments

Two-stage Hydraulophone

Hydraulophone is *Absement*-sensitive



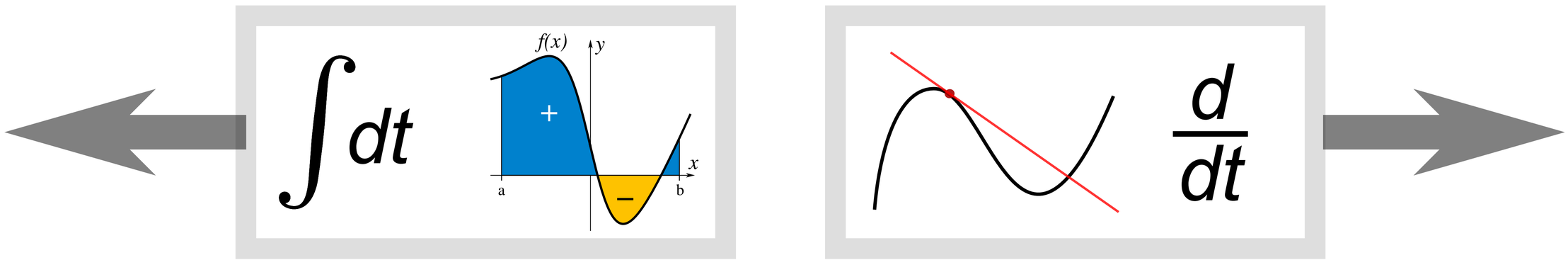
Organ is *Displacement*-sensitive

Piano is *Velocity*-sensitive

$\frac{d}{dt}$ $\frac{d}{dt}$ $\frac{d}{dt}$ $\frac{d}{dt}$ $\frac{d}{dt}$

... ***Abseleration*** ***Absity*** ***Absement*** **Displacement** (Distance) **Velocity** (Speed) **Acceleration** ...

$\int dt$ $\int dt$ $\int dt$ $\int dt$ $\int dt$



Integration Differentiation