# **Four Approaches** to User Interfaces for Audio Applications

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#### **An all too Obvious Start**

- Audio is audible
- But it is rarely:
  - visible
  - tangible
- Which does not fit well to regular computer-based user interfaces
- Image editors and word processors are much easier to design!



#### **Outline**

- Approach 1: Make it Tangible
- Approach 2: Make it Visible
- Approach 3: Focus on the Process
- Approach 4: Reduce the Interface
- Stimulus Package: Weird Ideas

### Approach 1: Make it Tangible

Digital Musical Instruments,

**Augmented Classical Instruments** 

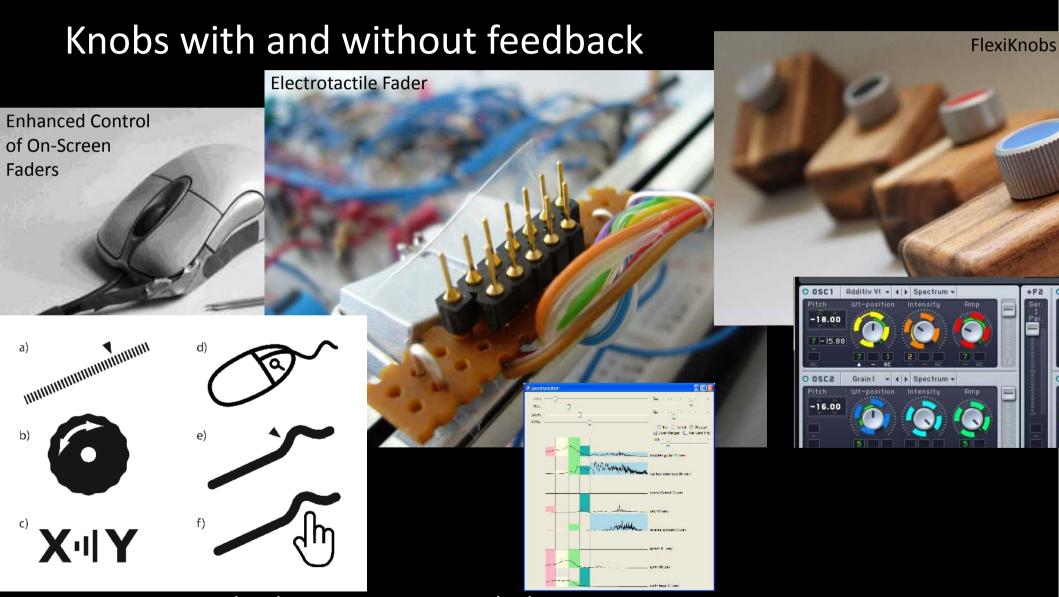




A Versatile
Percussion
Instrument
Based on
Game
Technology

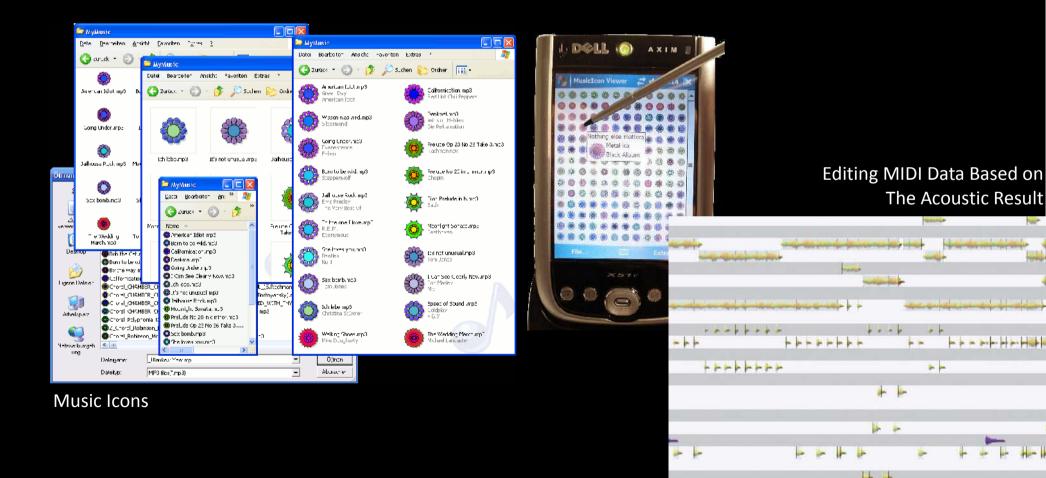
A Loudspeaker as Drumhead

### Approach 1: Make it Tangible, cont'd



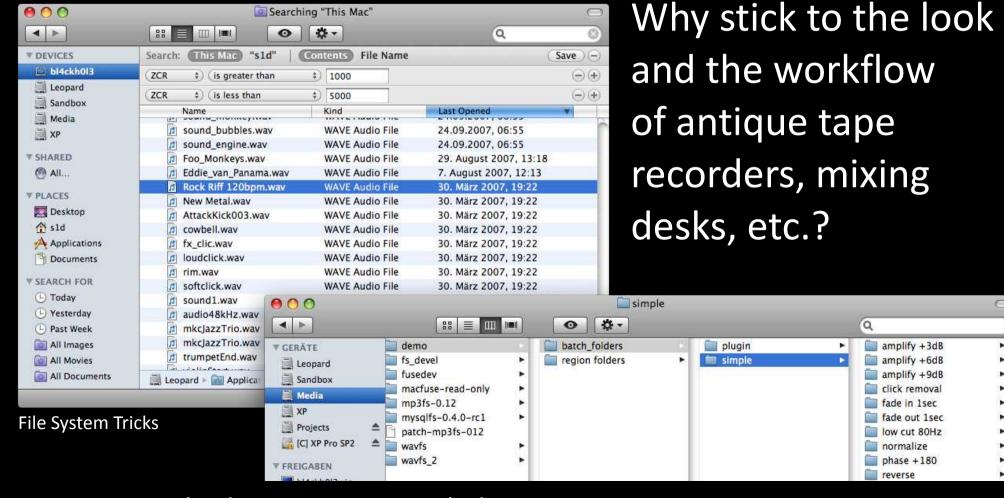
#### **Approach 2: Make it Visible**

Computer graphics can also do 2D, not only 3D!



#### **Approach 3: Focus on the Process**

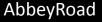
Find a metaphor for the task, not for its constituents



#### **Approach 4: Reduce the Interface**

- Graphics
- Breadth
- Level of Detail







Ableton

### Thank you!

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## Stimulus Package: Weird Ideas

### **VR Mixing Console with One Knob**

#### Inspired by:



Hiroo Iwata: CirculaFloor

# How would a Steam-Powered Audio Studio have Looked Like?

# How will an Audio Studio on Board a Starship Look Like?

Will there be such a thing as a studio?



# Will there be "Audio"? Will there be a "User"?