

# **Relationship of Sound and Objects**

- Sound and physical properties
  - Direct relation to, and evocative of, material properties and processes of an object (and the related meaning potential)

  - -> 1st order sound semantics: Information about artifact & use: Feedback, notification, (mecanical) processes
  - Several sounds can be combined to basic "narratives" 🔊 🔊
- Beyond sonic causalism and naturalism
  - Sound can give presence to a inexistent object or process mental models
  - Upon recording, sound develops a quality independent from it's original source
  - Abstract sounds may carry "traces" of physical processes (indices sonores matérialisants, Chion 1998)
  - Dialectical relationship: "Immaterial corporeality" (Connor 2004)
  - Association of sounds with soul or voice of things (Connor, Fischinger, Cage)
- · Goodbye authenticity, welcome schizophonia

Daniel Hug [daniel.hug@zhdk.ch]

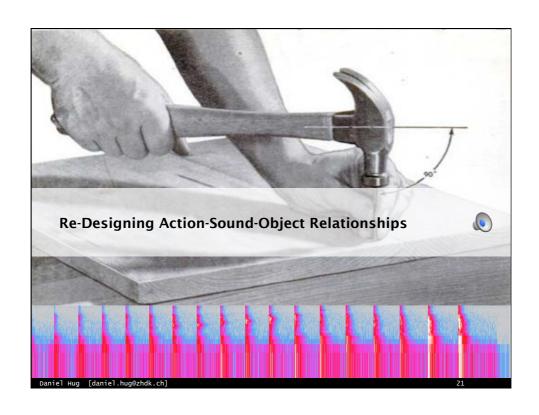
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## **Expressive Performance, Sound - Action Relationships**

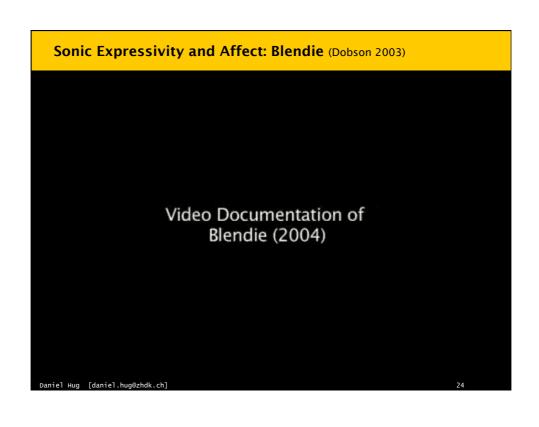
- Specific relationships between actions, movements, object qualities and sonic structures can be observed / designed
- Not necessarily isomorphous! 3 relationships (Chion 1998)
  - Isomorphous / direct link: Turning the throttle on a motorcycle
  - Link indirect, delayed or established through knowledge about it: Long, sustained tone of a violin
  - Not isomorphous, gesture triggers sound, which develops autonomously: e.g. hitting a gong.
- Manipulations vs. Trigger/hold relationships
- Ergo-Audition (Chion 1998):
  - Positive sign of own influence on world
  - More than just feedback: Meaningful, nuanced sounds evoke the "joy of hearing oneself"
    - "Differential of power"
  - Goal: design sustainable and meaningful sounds that are enjoyed during interaction.

Daniel Hug [daniel.hug@zhdk.ch

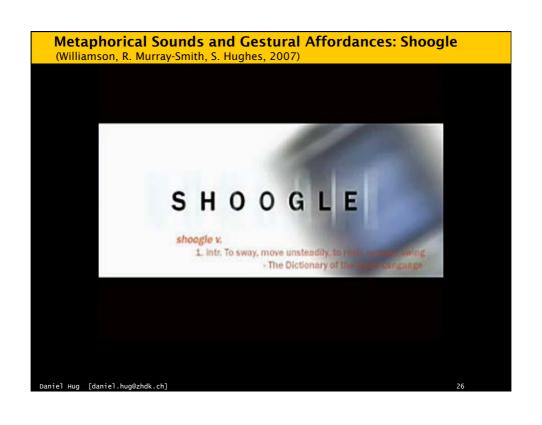
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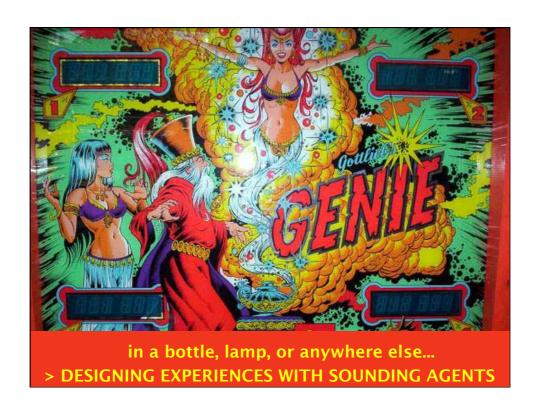


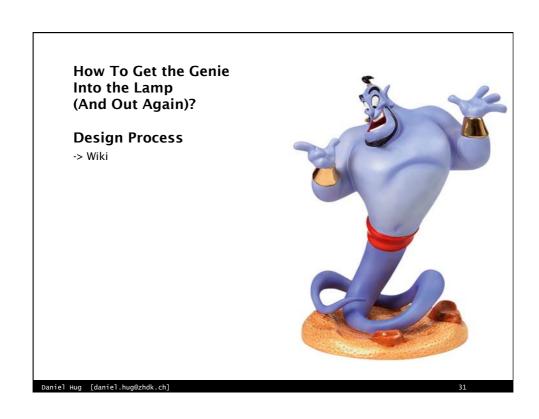


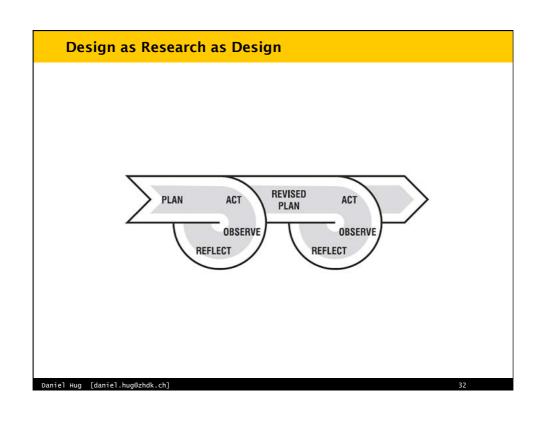


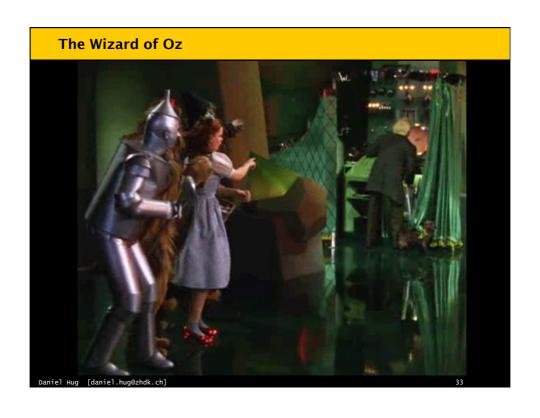




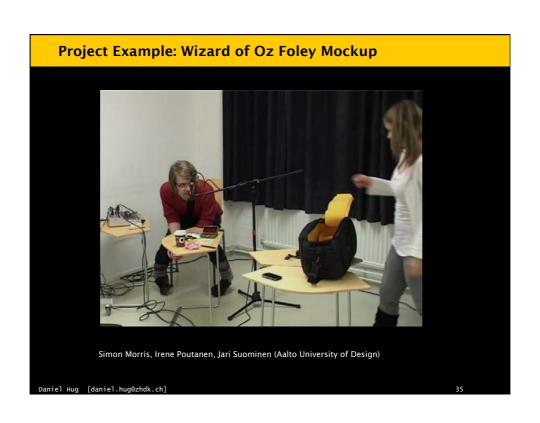


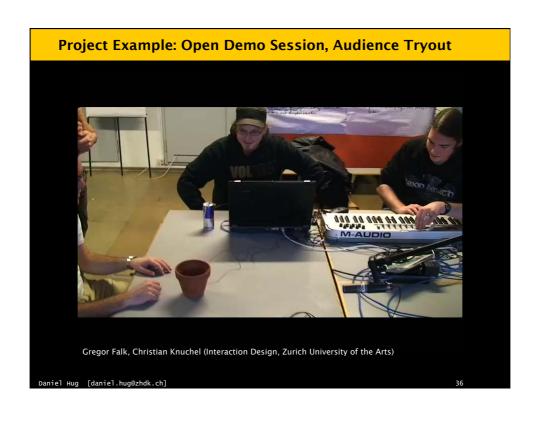


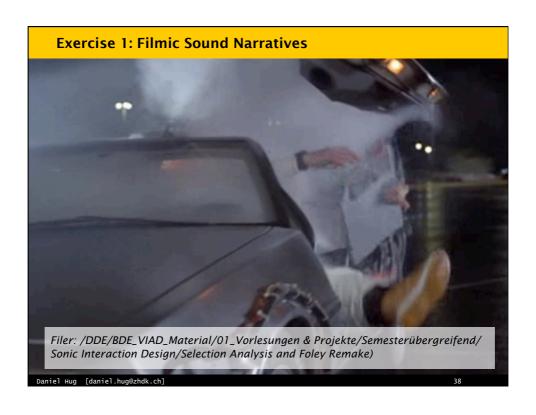












# **Exercise: Film Sound Analysis**

- Learning goals:
  - Listen closely to interaction related film sound fx
  - Understand effect of sound on our interpretation
  - Be inspired by the "masters of sound design"

## Assignement (teams of 2, 10m Analysis):

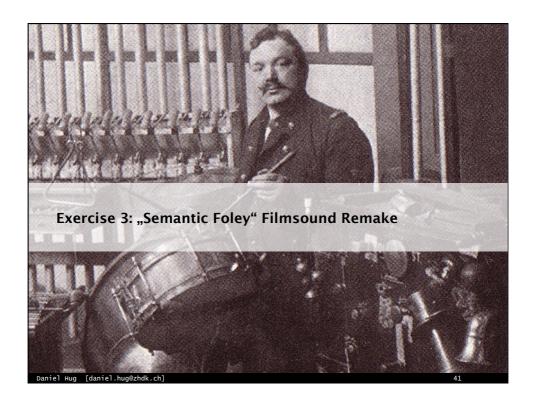
- Watch the movie clip assigned to your team (focus on object interaction)
  - With and without sound / image
- Write on paper: Film name, your names, and then:
  - Describe the action / processes depicted
  - Describe sound(s) associated with action & processes
    - How does it sound?
    - What does the sound tell us about the action and / or process? What about the object?
- Present the outcome (5m per team)

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Daniel Hug [daniel.hug@zhdk.ch]

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# Narrative Metatopics Narrative Metatopics Power/energy Nature & judgement Quality of use Quelity of autral & ire qualities life cycles Unamiles Jahran Sesturality transformation, processes, structural states Atmosphere, mood Daniel Hug [daniel.hug@zhdk.ch]



# **Exercise: Semantic Foley Sound Remake**

- Learning goals:
  - Turn listening into soundmaking
  - create a first small auditory display / SID design
  - Convey information sonically (micronarrative)

### Assignement (20m, teams of 3):

- Try to mimick the **sound effects** from your clip using Foley techniques and voice
- Redefine the processes and actions quality depicted in the clip
  - Example Qualities: (in)secure, powerful, dangerous, friendly, simple, complicated, important
- Invent sounds for the processes and actions, using Foley techniques based on original sound
- Perform your Foley Sound Remake live to the videoclip!

(20m for designing and practicing the live performance)

Daniel Hug [daniel.hug@zhdk.ch]

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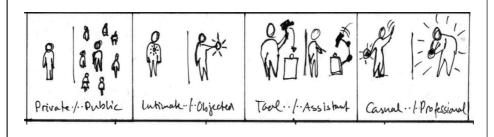
Part 2: Topics and Artifacts (A Kind of) "Zwicky Box"



Daniel Hug [daniel.hug@zhdk.ch]

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# **Heuristic Framework: Situation**



Daniel Hug [daniel.hug@zhdk.ch]

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