



## **FALL1NG BRA2CHES**

***Small mechanical rhythm machines - found objects + electric motors + controls  
Workshop, 2 - 4 hours, 4 - 15 participants***

We build small mechanical rhythm machines from found objects that we bring back from a collecting walk. The found objects are mounted on electric motors and wired to an Arduino controller. We can then experiment with programming rhythms and sounds.

### **Collecting walk, tinkering, soldering, coding and experimenting**

During a walk, we collect objects such as twigs, packaging waste and anything else that can be lifted with the small smooth-running motors. Then the tinkering begins: We mount 4 motors on a board with hot glue, drill holes in the found objects to attach them to the motor axles. We then pad the stop with foam so that the objects always fall down as soon as the motor runs out of power. The motors are wired to an Arduino Nano and this is programmed via the Arduino software using sample programs for one, two and four four-quarter cycles.

In addition, the sounds can be recorded with a contact microphone or mixed live.

### **Civilization waste**

Coffee-to-go cups, French fries forks, but also broken twigs and dried leaves each produce their own individual sound when they are lifted a little and dropped again. The FALL1NG BRA2CHES project is dedicated to this poetry of civilization waste and raises awareness of its color, shape, weight, resonating body and sound.

## **RESILIENT VEGETATION**

The FALLING BRANCHES project is part of the RESILIENT VEGETATION performance project, which addresses the drama of industrial stress tests applied to plants. Comparable stress tests on vegetation are playing an increasingly important role in research in the context of climate change. Beyond the scientific perspective, the performance is dedicated to the aesthetic aspects of these experiments, in which the limits of plants' resistance to suffocation, poisoning or mechanical stress (breakage test) are explored.

### **Materials**

Arduino Nano plus adapter board 8,- €

SOLAR 90002L solar and smooth-running motor, 0.4 - 5.9 V 2,- €

Craft materials (wood, foam, glue, cable)

Total 10,- €

I will bring all materials and tools. Laptops are needed for programming, which ideally everyone should bring themselves. (I could bring 8 laptops).