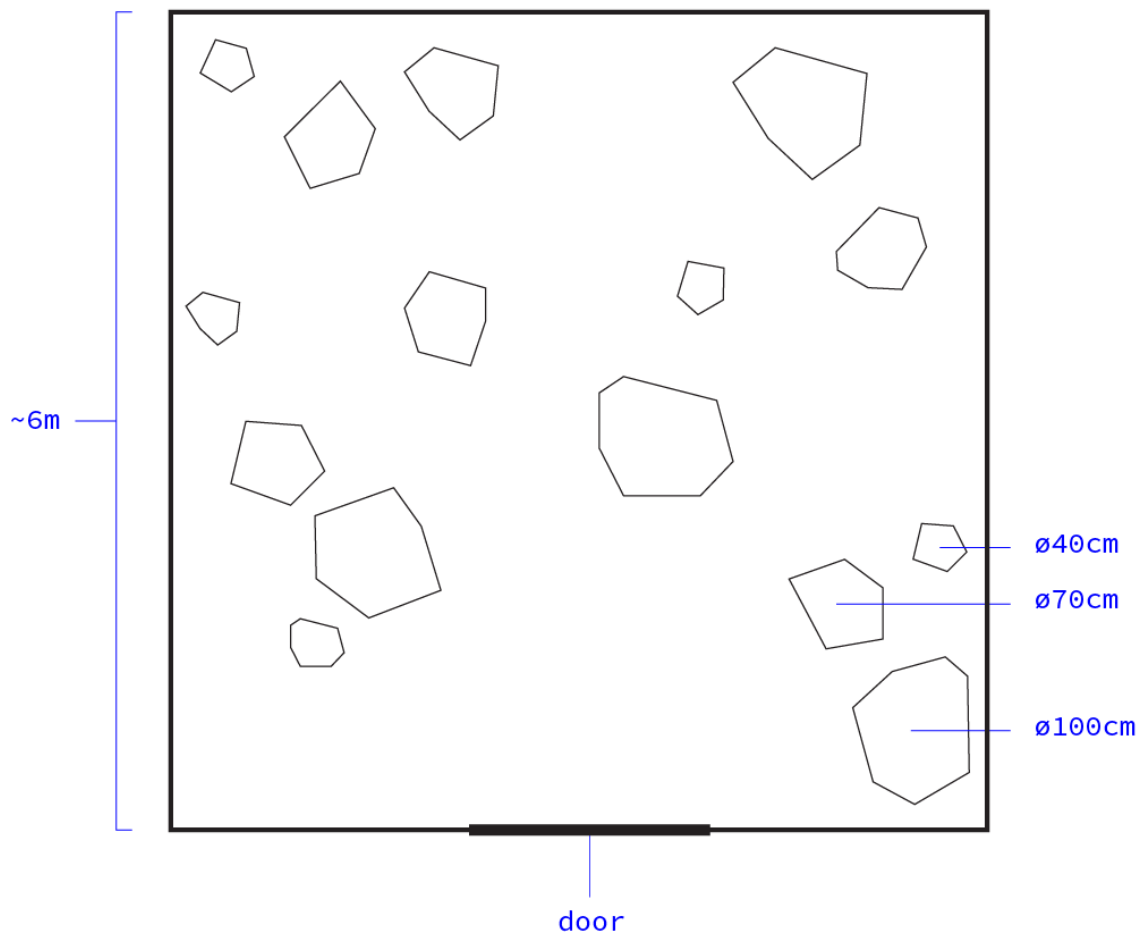# Semeion Tech Specs

Physical installation

Semeion consists of 15 large crystalline structures with lights, speakers, sensors and microprocessors embedded inside. Each crystal is of varying size, and each of them will be placed on the ground. The maximum size of a crystal is **1,5 meters tall** and **1 meter wide**. The crystals can be fitted to varying room sizes, and even for outdoors, but for SXSW 2019 the indoor conference area of 20' x 20' x 8' will be a fitting home for Semeion. See layout drawing below for an example placement of the crystals. In order to maximize the effect of the lights in the crystals, lamps in the room need to be turned off, and any windows need to be covered.

Layout

The following drawing illustrates an overhead view with approximate position of the 15 crystals on the ground, placed in the 20' x 20' (~6 x ~6m) room. Door position does not matter.

~6m

ø40cm

ø70cm

ø100cm

door

Power Consumption

Wattage

Each of the 15 crystals requires ~**100 watts**, which totals around ~**1500 watts**.

Furthermore, it includes one central station with a Raspberry Pi 3 B and a wireless router, which draws approximately **~100 watts**.

The entire installation has a peak wattage of more or less ~**1600 watts**. Changes to the electronic setup might occur, but we do not expect the wattage to exceed **2000 watts**.

Voltage

Semeion is capable of running on 230V as well as 110V.

Outlets

Each crystal as well as the central station requires one power outlet. This amounts to a total of 16 outlets. These can be combined in power strips, reducing the amount of wall/ceiling plugs needed.

For more info on Semeion visit https://www.circuit-circus.com/concept/semeion