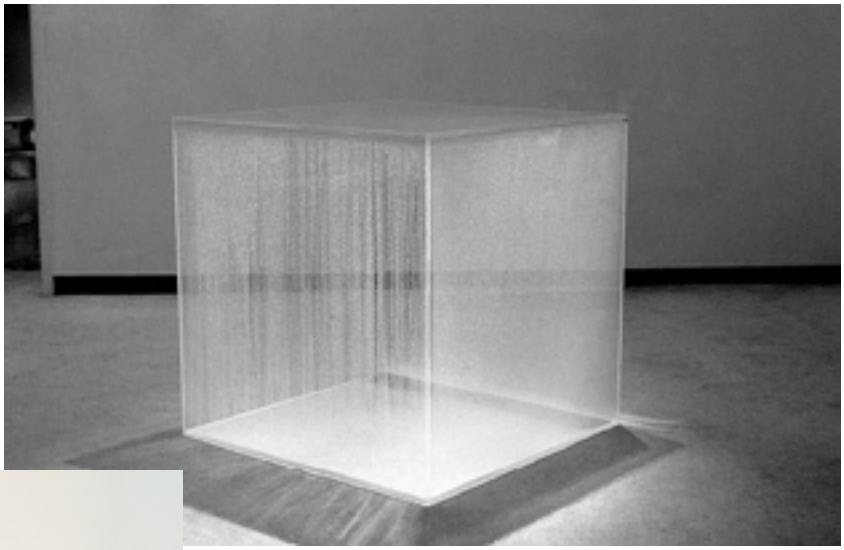
“Always green
never grumpy.”

inspiration



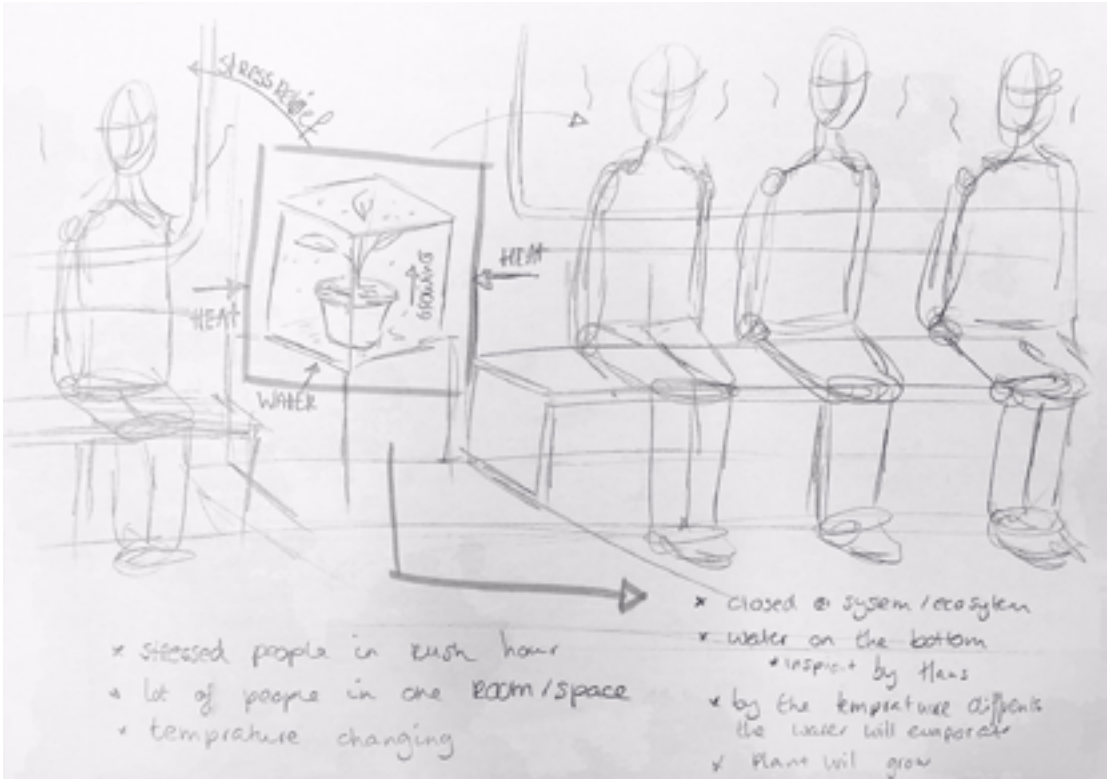
Condensation cube, 2008
Hans Haacke

Parts that were interesting:
> He explored the interactions of physical and biological systems and their natural processes
> It consists of a sealed Perspex box filled with a small amount of water. Condensation begins to form and to run down the sides of the box, changing according to the ambient light and temperature. The work's appearance therefore depends upon the environment in which it is placed.

questions

QUESTIONS TO BE ANSWERED:

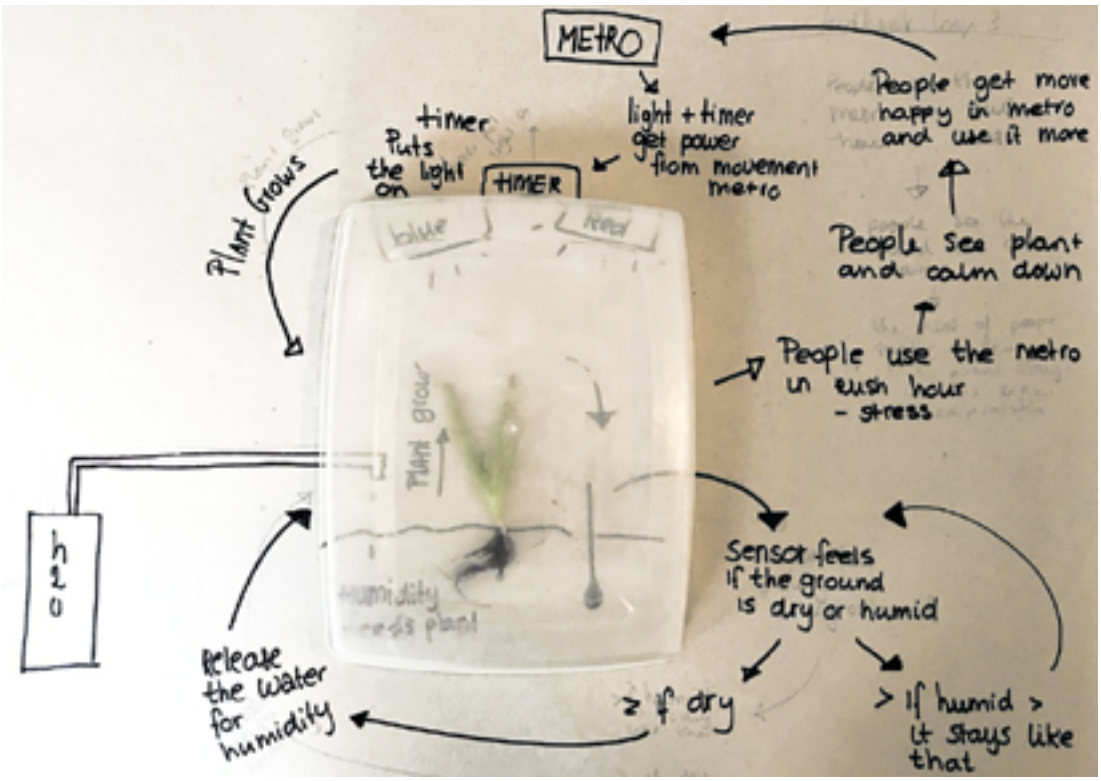
What kind of plants like this environment ?
How fast/easily will we run out of water for the steam ?
How do we make a loop with the water (so that it refills automatically) ?
How much energy creates a plant ?
How can we make this self producing without using electricity ?



concept

We thought of incorporating plants in a hectic environment (the metro) acting as a stress reliever. It has been proven that plants bring peacefulness and comfort to its surroundings.

The plants would be put behind closed transparent walls, enabling them to grow on their own. Similarly, to the terrarium's system: "The sealed container combined with the heat entering the closed environment allows for the creation of a small scale water cycle. This happens because moisture from both the soil and plants evaporates in the elevated temperatures inside. This water vapour then condenses on the walls of the container, and eventually falls back to the plants and soil below. This contributes to creating an ideal environment for growing plants due to the constant supply of water, thereby preventing the plants from becoming over dry. In addition to this, the light that passes through the transparent wall allows for the plants within to photosynthesize, a very important aspect of plant growth."
(https://en.wikipedia.org/wiki/Terrarium)



sketch of the feedback loop

mock-up

Mock-up creation:

1 - choose a transparent container that you can completely close
2 - put some small stones or pebbles at the bottom (acts as water drainage for the plant's roots)
3 - put in a thin layer of activated charcoal (fights bacterial growth)
4 - add potting soil
5 - insert the aloe vera plants

representation