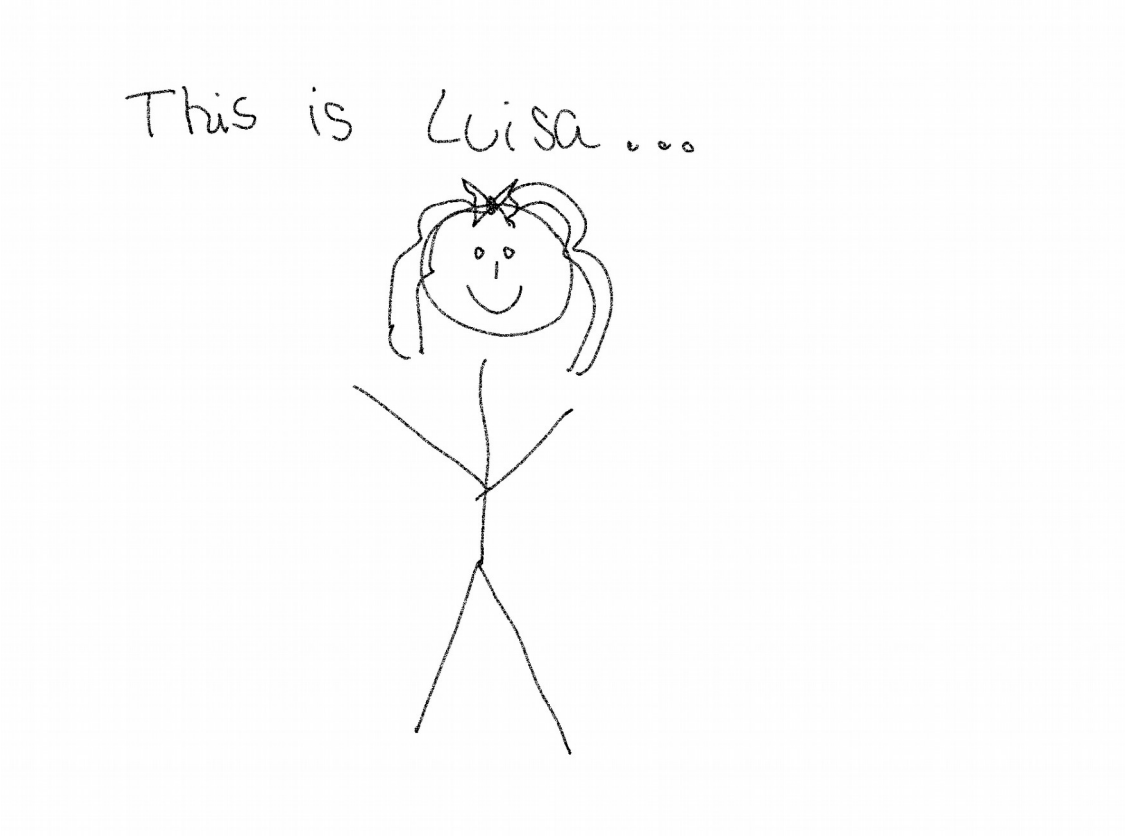
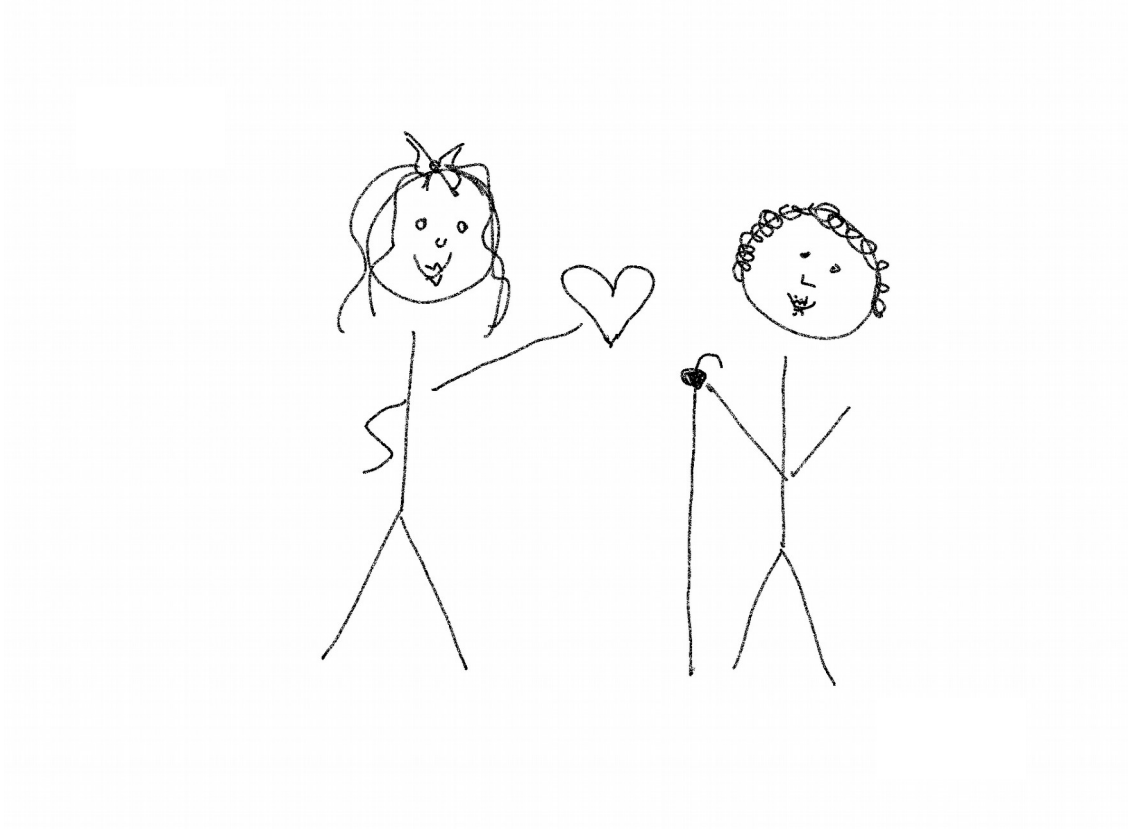
R.I.C

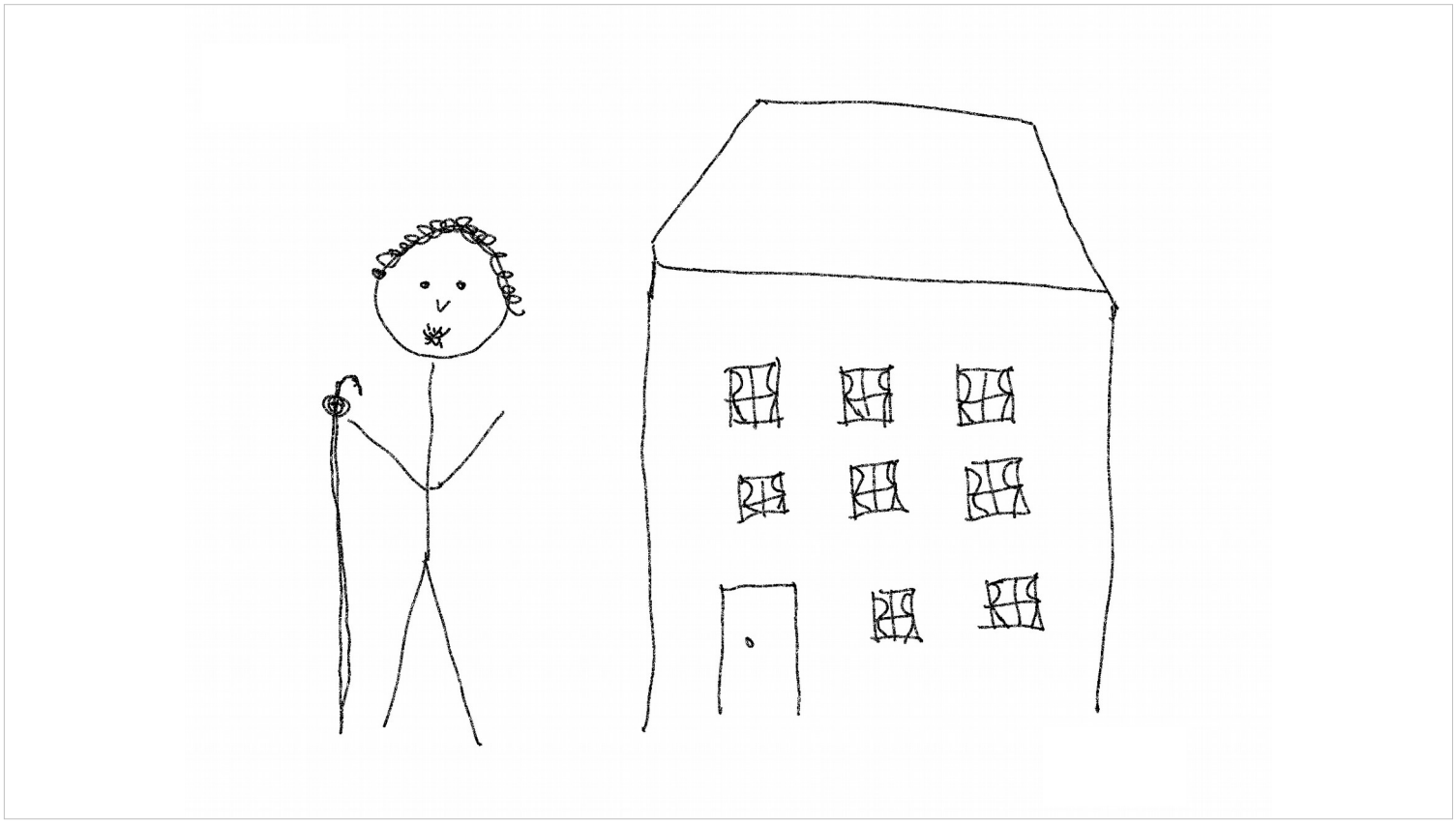
The Robotic Interactive Companion



This is Luisa



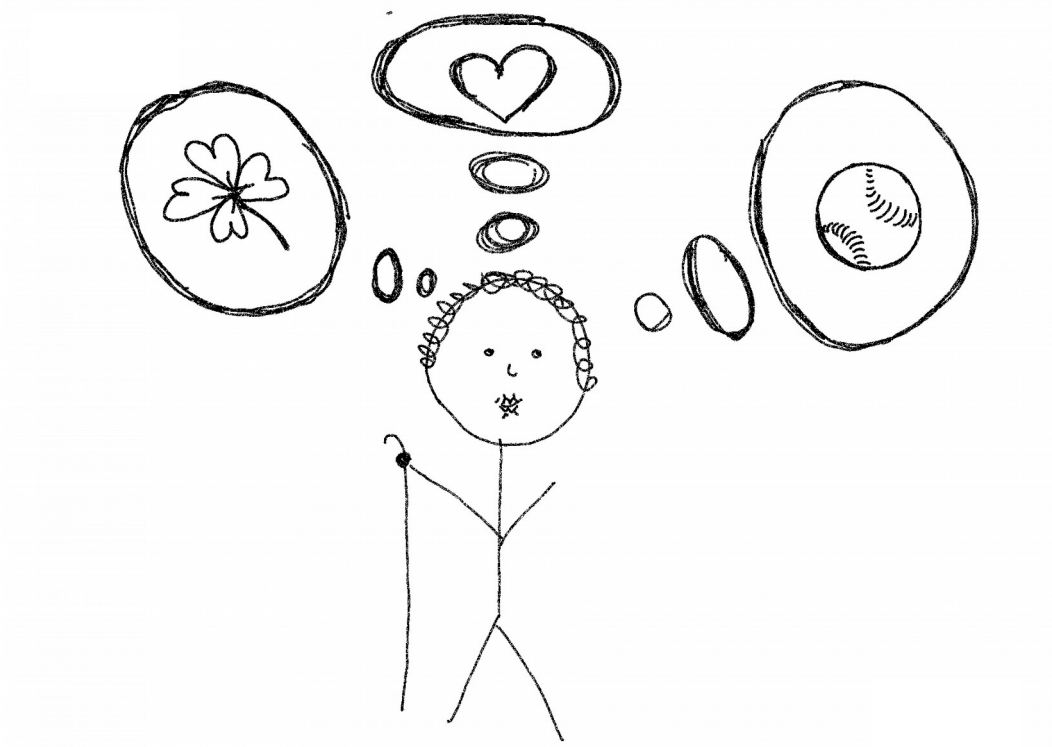
Luisa loves her grandma



But grandma lives far away in a home for

elderly people

And Luisa has not much time to visit her because she is at hackathons every weekend



So grandma is bored.

She wants to have fun,

she wants to be loved

and she needs exercise

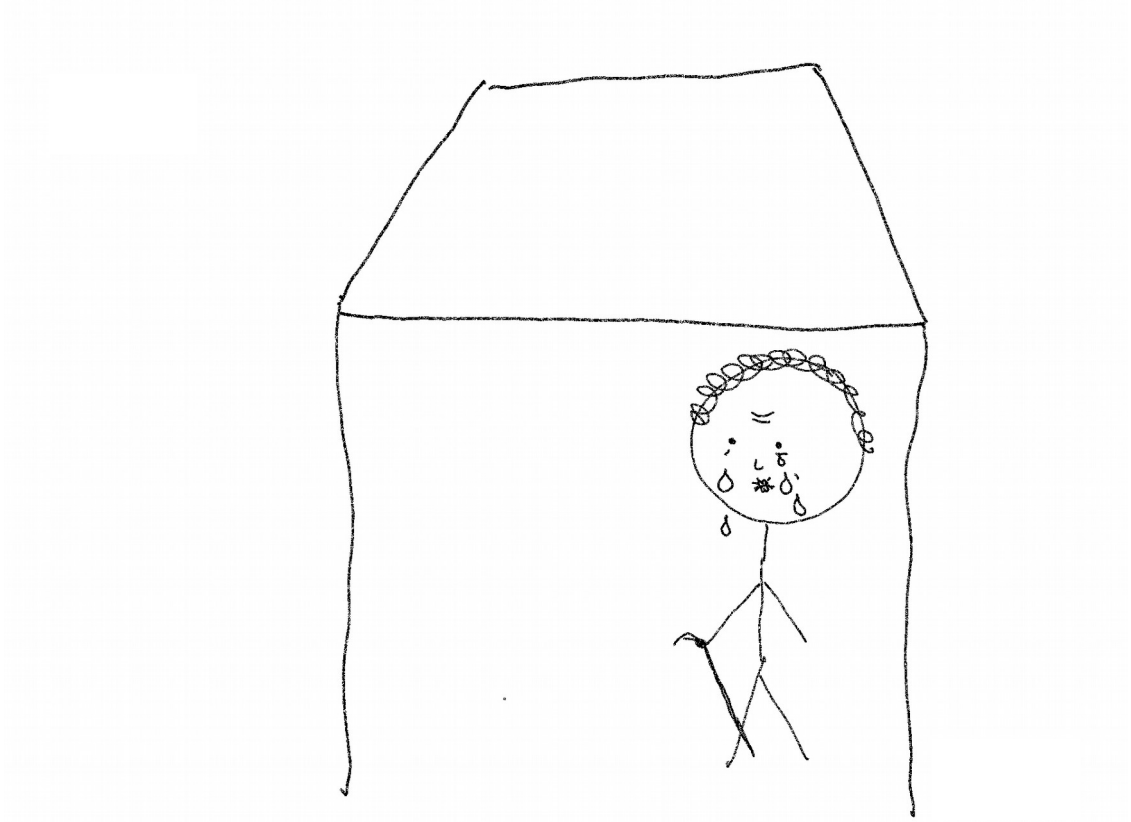
But:

The nurses can not entertain her

They don’t have time

They don’t have money

And there are not enough people to do all the work



So grandma is very sad and alone everyday

Amazon Alexa
natural speech interface

Philips Hue
visual interface

RPLIDAR
motion tracking

Festo BionicCobot
physical interaction

We thought: It doesn't have to be that way!

We combined the latest technology to solve this problem of our society

We use Amazon Alexa as a natural speech interface

Philips Hue as a visual interface

RPLIDAR for additional motion tracking

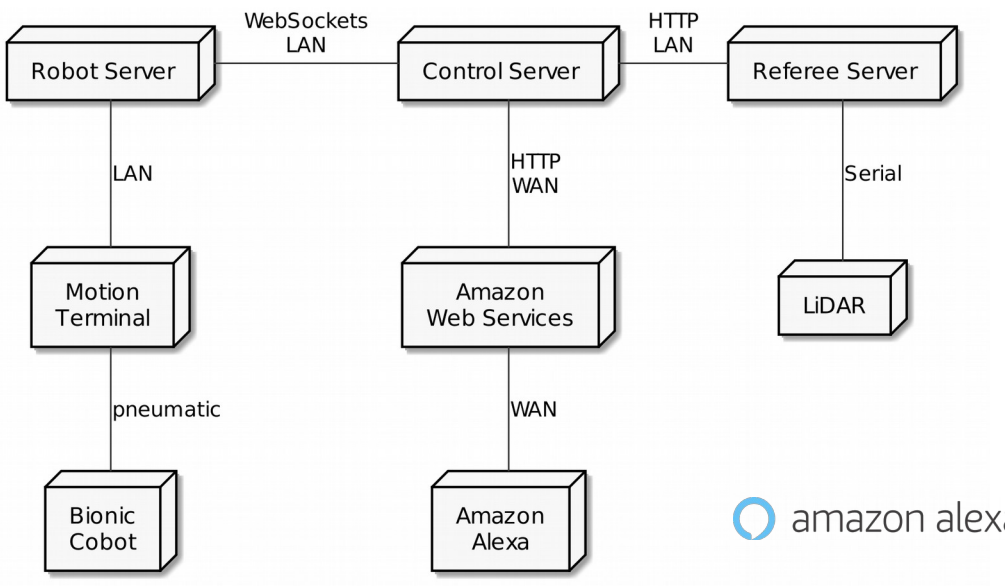
And the Festo BionicCobot for physical interaction

And created the Robot Interactive Companion

It’s first use case is the **Sparring Activity** in which he steps in as a personal trainer for boxing exercise

Product Video

https://youtu.be/lkPGenAMyrg



So this is the architectural details of this solution

Control Server gets triggered by Amazon Alexa

Robot server controls Festo BionicCobot

Referee Server takes care that the rules of the game are obeyed

Festo BionicCobot

safe interaction due to flexible air pressure operated joints

Intuitive interface

low-cost

incredibly lovely

And this is the most impressive component of R.I.C

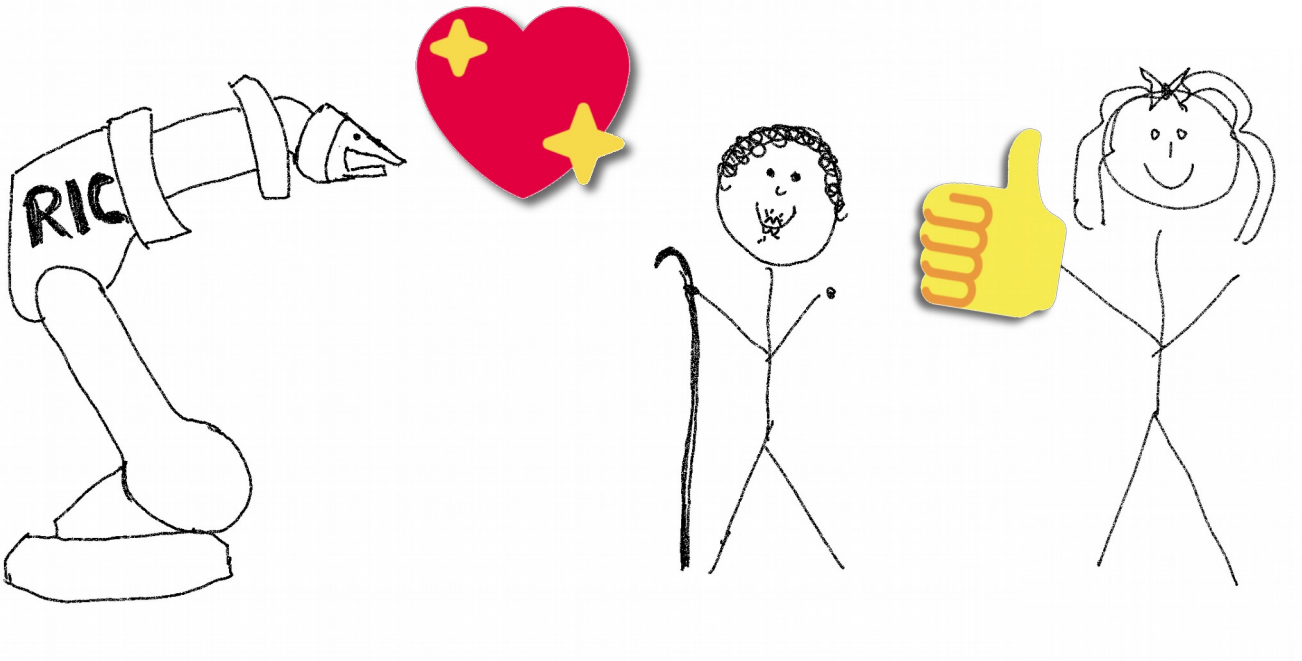
The Festo BionicCobot features flexible air pressure operated joints for safe interaction

it is intuitively operated

low-priced

And incredibly lovely!

This allows for a whole universe of activities



And makes grandma happy :-)

github.com/anoff/ric