

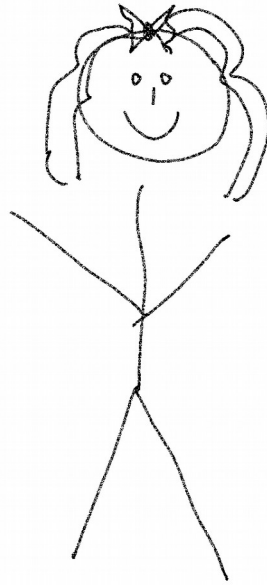
# R.I.C

**The Robotic Interactive Companion**

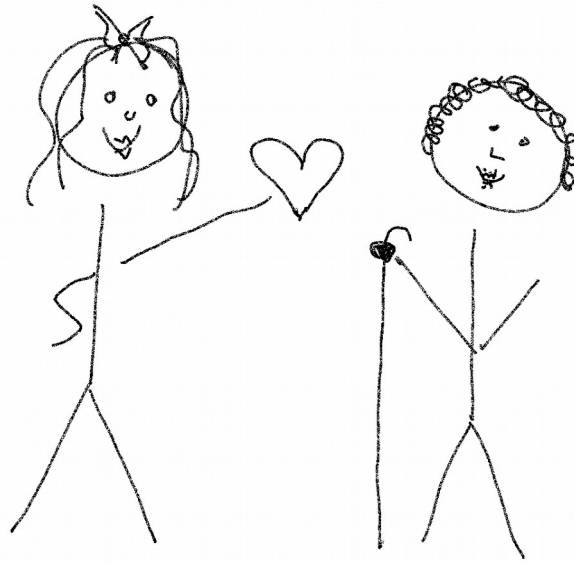
I'm here to present RIC

The Robotic Interactive Companion

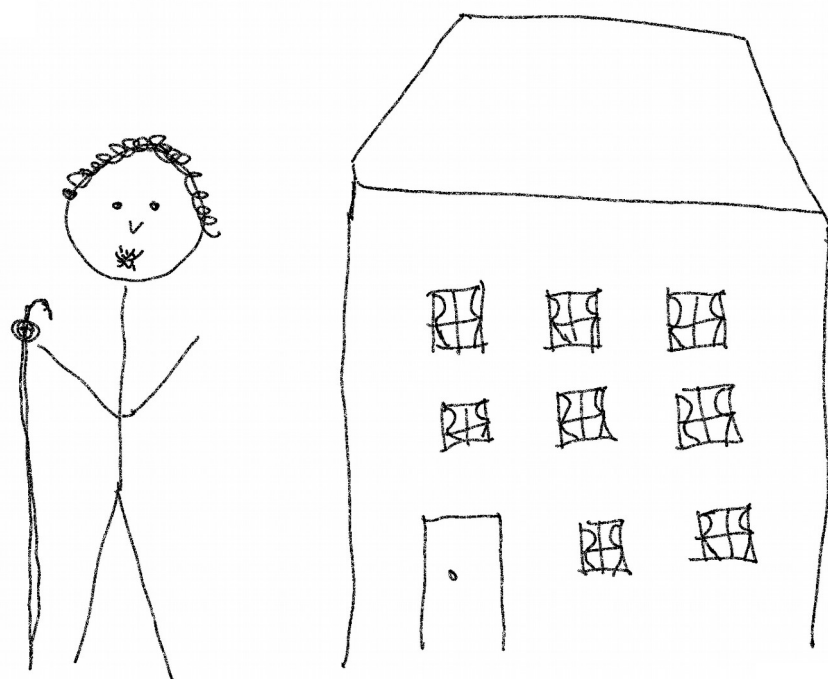
This is Luisa ...



This is Luisa



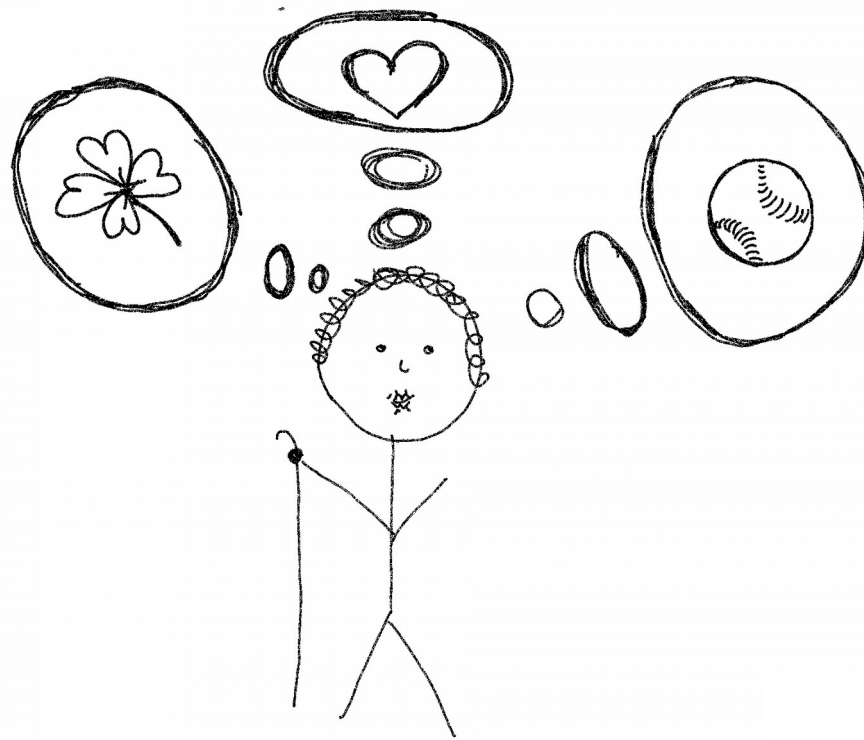
Luisa loves her grandma



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



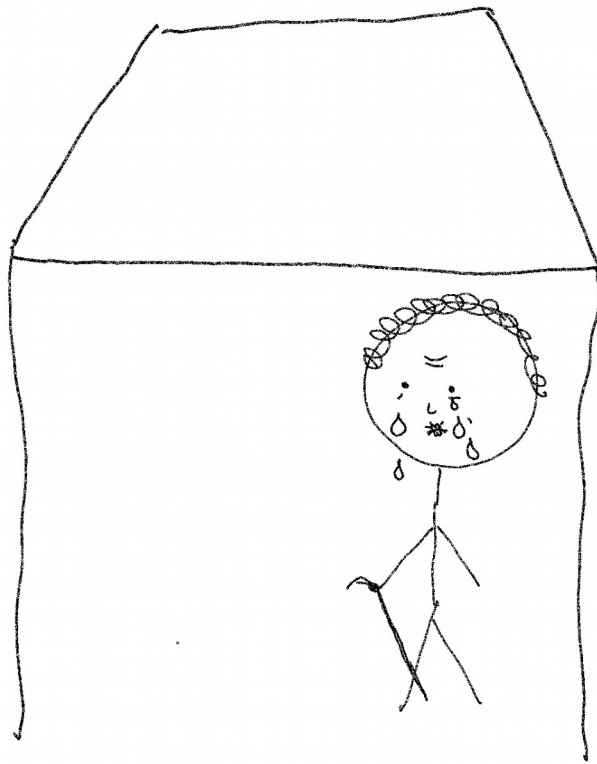
But:

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

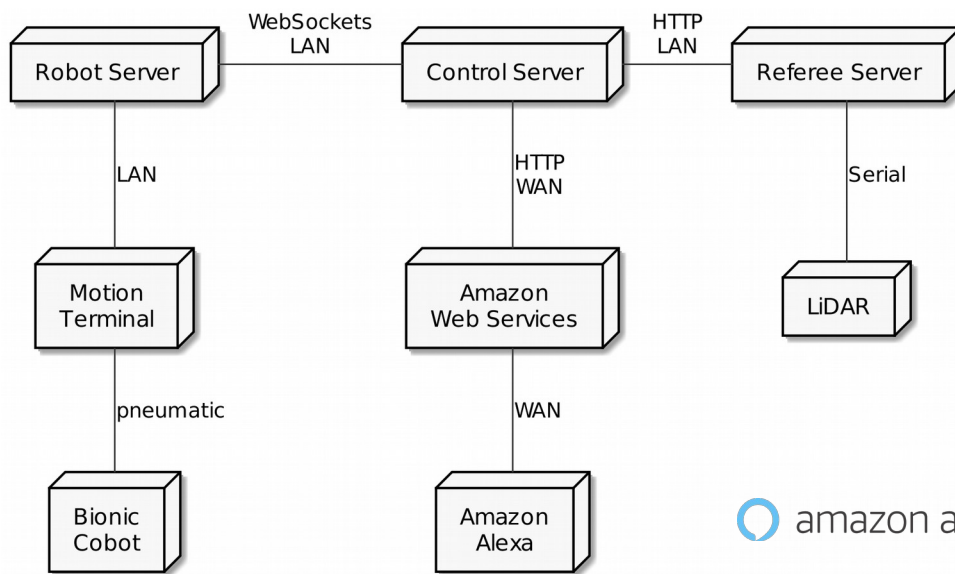


And created the Robot Interactive Companion

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>



ROS

node.js

python

amazon alexa

FESTO

aws

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

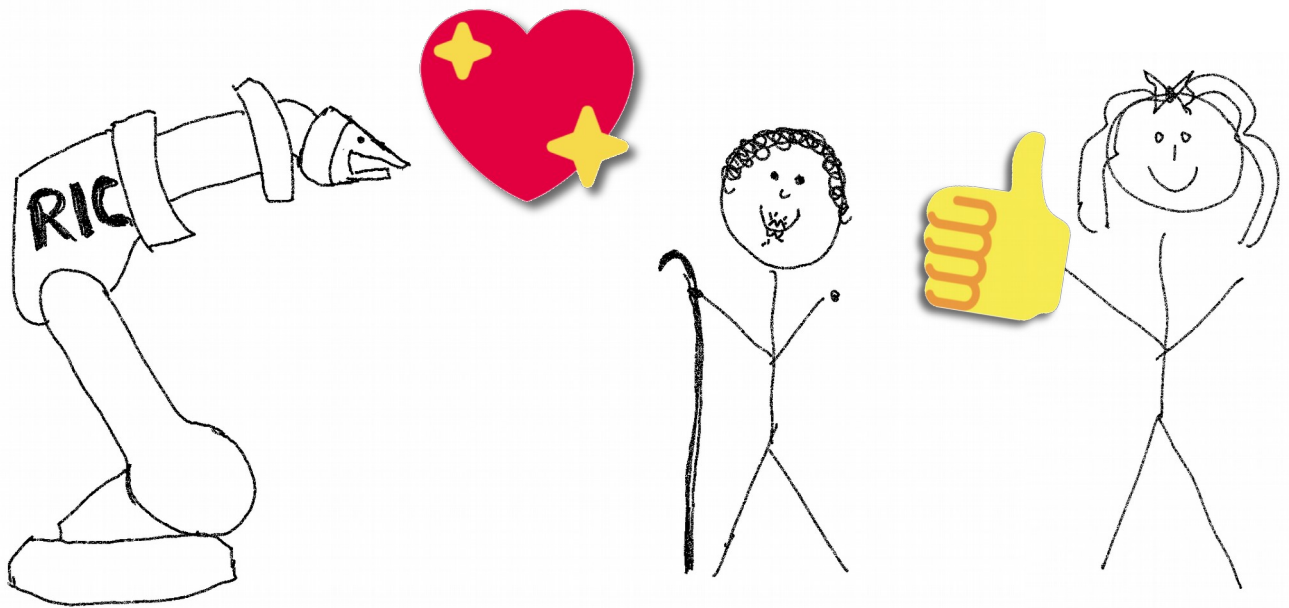
The Festo BionicCobot features flexible air pressure  
operated joints for safe interaction

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](https://github.com/anoff/ric)

This is our team

See details on github or ask one of us