Robot Pleo
ali kako dinozavru zamenjati vrat

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Pipini odprti termini, 17. marec 2009
Pleo od zunaj
Caleb Chung (Ugobe Co-founder/CEO)
Furby (1998)
The 3 Laws of UGOBE Life Forms

UGOBE Life Forms must:

1. Feel and convey emotions
2. Be aware of themselves and their environments
3. Learn and evolve over time
Life Stages

Pleo has three life stages, and his progress depends on your level of interaction. Listen for his first sounds, look for his first steps, watch how he adjusts to his world. As Pleo progresses through each stage, he exhibits a broader range of movement and behaviors.

The Three Pleo Life Stages

Stage 1 – Birth

Duration
First 5-10 min., approx (depending on level of active interaction)

What to Expect
Pleo opens his eyes to both you and the world for the first time. He starts to adapt to his environment. He is very slow, and his sensors are not very responsive yet. The more you pet and nurture Pleo in this stage the more confident he becomes and the faster he will develop. Pleo is finished “hatching” when he is fully awake and stands up on all four feet.

Stage 2 – Hatchling

Duration
30-45 min., approx (depending on level of active interaction)

What to Expect
Pleo starts to exhibit basic behaviors and needs. He begs to be fed, starts to walk, explores his environment, takes short naps like a baby, and starts to exhibit a wider range of emotions.

Stage 3 – Juvenile

Duration
Indefinitely; the rest of his life

What to Expect
Pleo enters into his final stage of development. As he expands his capacity to learn, he exhibits a full range of movement and behaviors. He begins asserting a personality. You can’t go wrong (aside from physically mistreating Pleo), so take your time to observe, play and learn about Pleo.
NOTE:
- Head motor controls both the eyes and the mouth.
- Full eye extension opens mouth.
- Mouth cannot be open while eyes are shut.
Hardware

- Atmel ARM7 32 bitni mikrokontroler
- NXP ARM7 (kamera, zvok)
- 4x majhni 8 bitni mikrokontrolerji za nadzor servomotorjev
- USB port
- SD card slot
// Very simple sensors.p example. Add code to on_sensor for those
// sensors you would like to respond to.

// save space by packing all strings
#pragma pack 1

#include <Log.inc>
#include <Script.inc>
#include <Sensor.inc>

public init()
{
    print("sensors:init() enter\n");
    print("sensors:init() exit\n");
}

public on_sensor(time, sensor_name: sensor, value)
{
    new name[32];
    sensor_get_name(sensor, name);
    printf("sensors:on_sensor(%d, %s, %d)\n", time, name, value);
    switch (sensor)
    {
    }
    // reset sensor trigger
    return true;
}

public close()
{
    print("sensors:close() enter\n");
    print("sensors:close() exit\n");
}
Pleo od znotraj
2.0 mm medeninasta cevka

0.5 mm pletenica
Nasveti
Dokumentacija, dokumentacija, dokumentacija!
Potenciometre je pritrditi na dva načina!
Kje lahko izveste več

• I, Pleo. Make Magazine, volume 8, stran 28
• http://pleoworld.com/developer
• http://www.tablix.org/~avian/blog

Vprašanja?