Robot Programming

Lecture 6: Robots Behaving Badly

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Good Behavior Award

HAPPY DAY!
Behavior

anything your robot can do

line follow

move forward

turn around

avoid obstacles

wander
Behavior

stand-alone activity linking
sensors and motors

single purpose
move 10cm  CHOMP!
move 10cm → move 10cm → CHOMP!
planning, search etc. are representation heavy in robotics representations of the world are often unreliable

solution: use the world as its own representation
move 10 cm  move 10 cm  move 10 cm  CHOMP!
@Override
public boolean takeControl() {
    // always willing to give it a go
    return true;
}

@Override
public void action() {
    RConsole.println("driving forward");
    getPilot().forward();
    while(!m_suppressed) {
        Thread.yield();
    }
    getPilot().stop();
    m_suppressed = false;
}

@Override
public void suppress() {
    m_suppressed = true;
}
Good Behavior Award