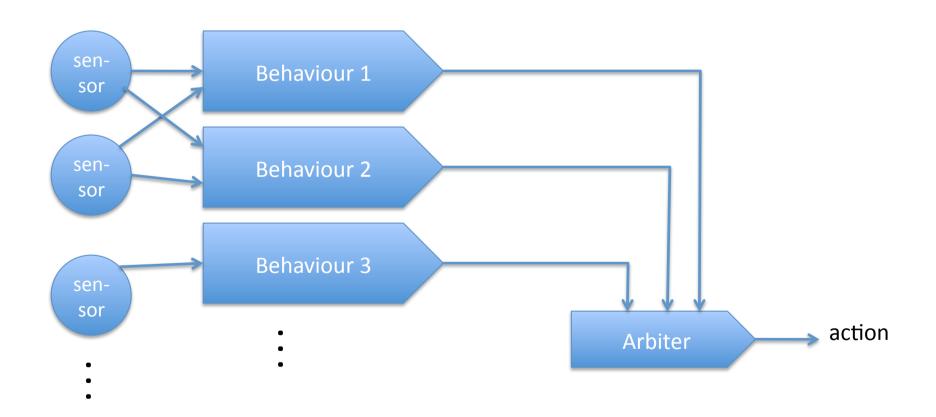
Short introduction to behavioural robotics in Lego's programming language

— and form groups, start working on the exercise

Robot course, spring 2009 Henning Christiansen

Behavioural robotics according to the book

A software (+hardware) architecture for robots



A simple version of b.p. inspired by "closed loop control"

Chosen as it fits with the Lego NXT technology
The principle

```
repeat {check sensors;
decide behaviour B;
perform a smallest meaningful step of B}
```

A detail:

 In order to robot, you option.

```
repeat { if sensors indicate B1 {small step of B1} else if sensors indicate B2 {small step of B2} ....
elseif sensors indicate Bn-1 {small step of Bn-1}} else {small step of Bn}
```

A possible extension...

You may perform longer parts of the chosen behaviour B if you can determine that a single sensor reading is sufficient to stop it before anything goes wrong.

I.e. use



rather tha



Rest of today's program

- Form groups, 2–3 persons which have to stay together until the end of the course, working their own Lego set
- Work with the exercise (see course web site)
- document what you are doing along the way
- since it will be give as written assignment
- if you do not finish today, the rest needs to be done later.
- (we will find a room where the Lego sets stay and where you can get access during the week)