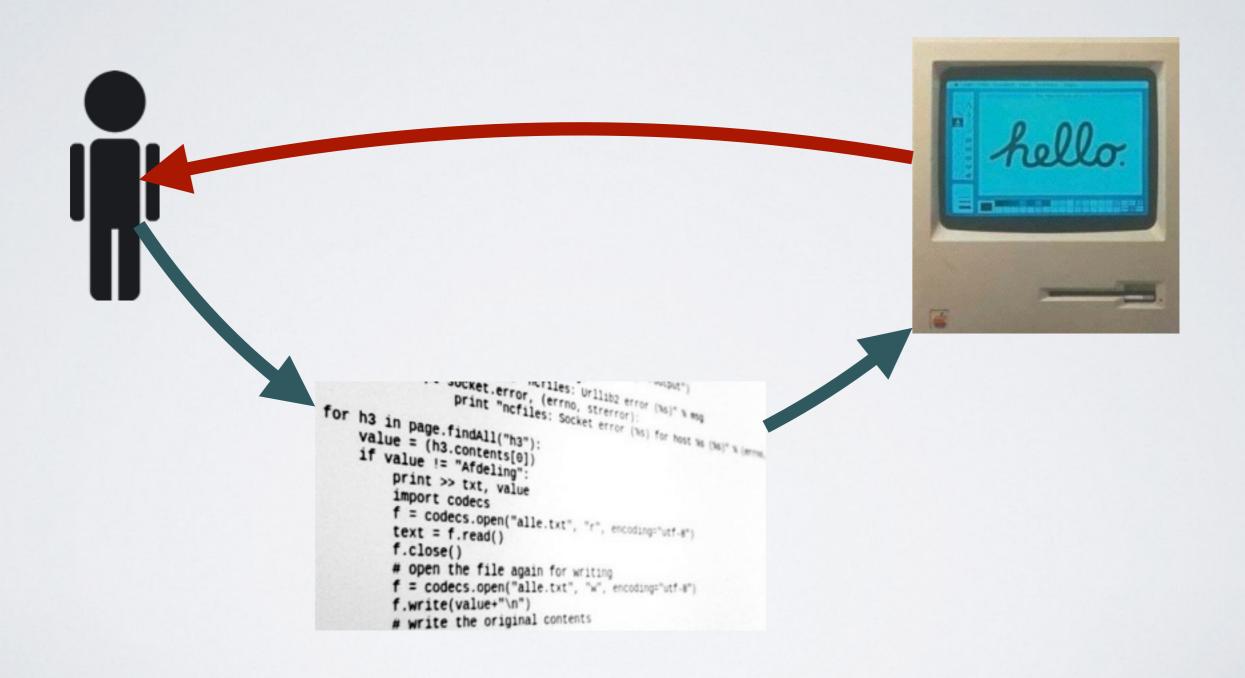
# LIVE ROBOT PROGRAMMING

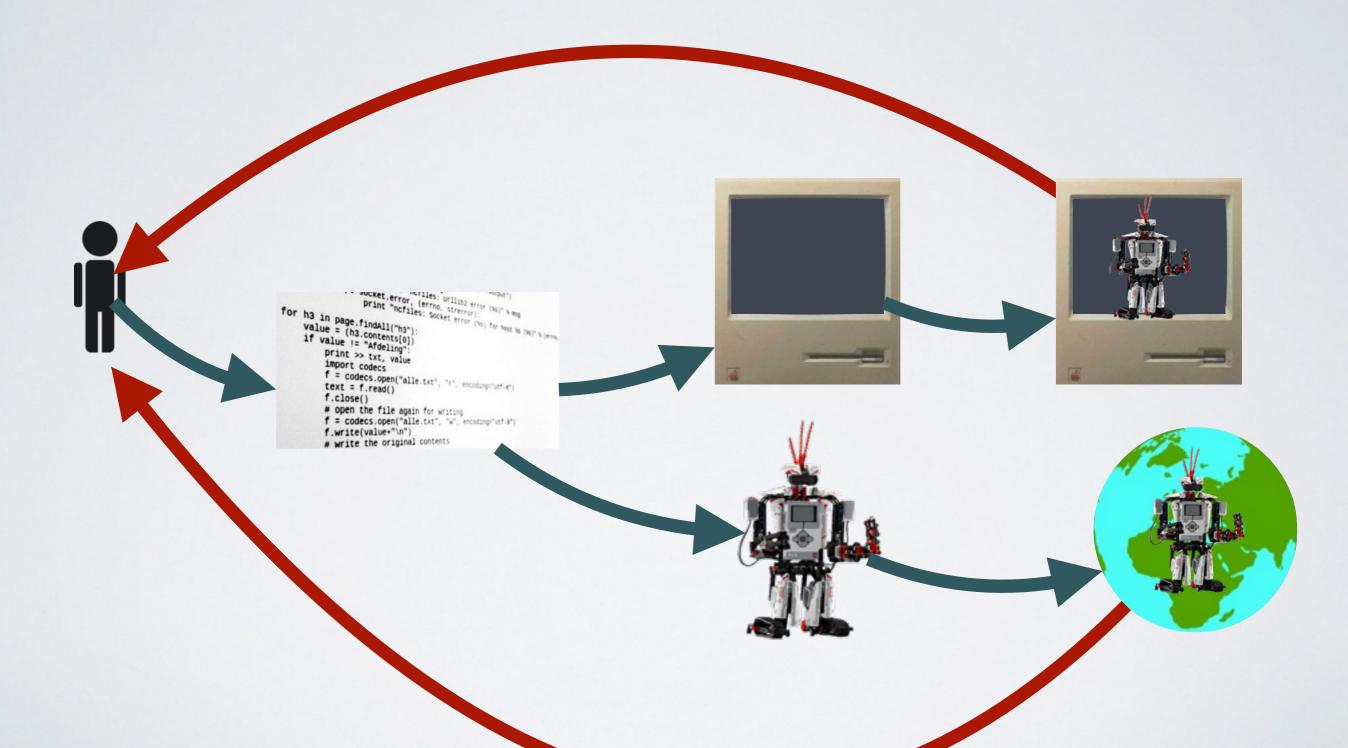
Johan Fabry & Miguel Campusano

#### LIVE PROGRAMMING IS AWESOME!

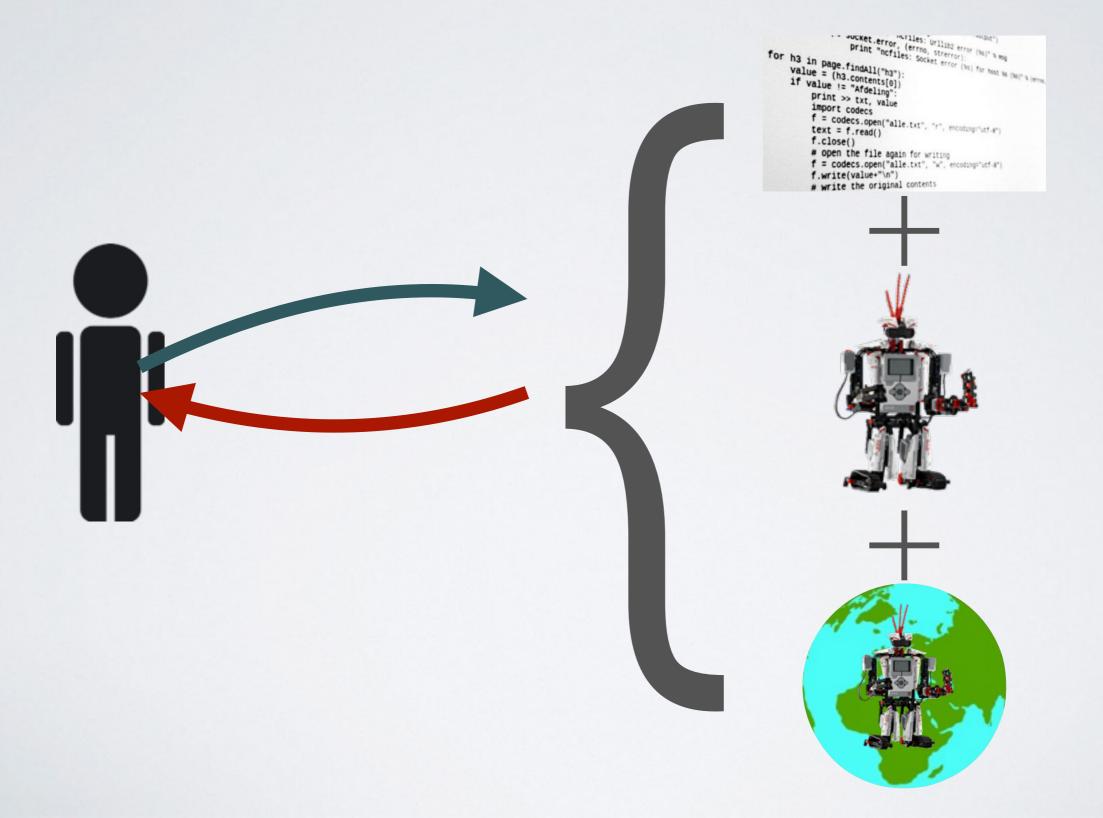
#### DEVELOPMENT CYCLE



#### DEVELOPMENT CYCLE: ROBOTS



#### LIVE PROGRAMMING



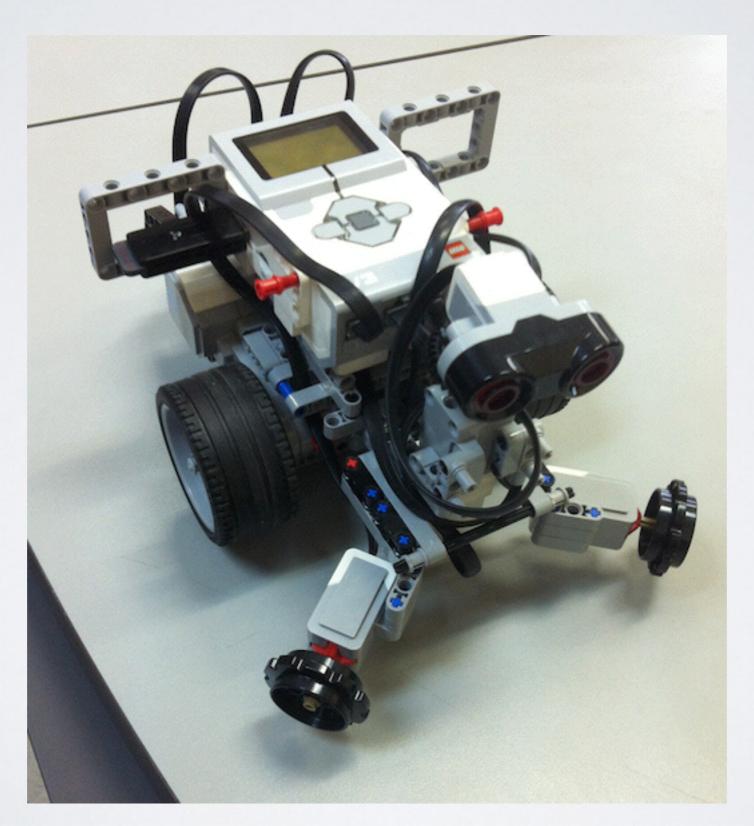
# LIVE ROBOT PROGRAMMING

Johan Fabry & Miguel Campusano

#### LRP

- Nested State Machines
- Live Programming
- · Pharo Smalltalk.

# DORA, THE EXPLORER



DEMO

#### CHALLENGES

#### CHALLENGES

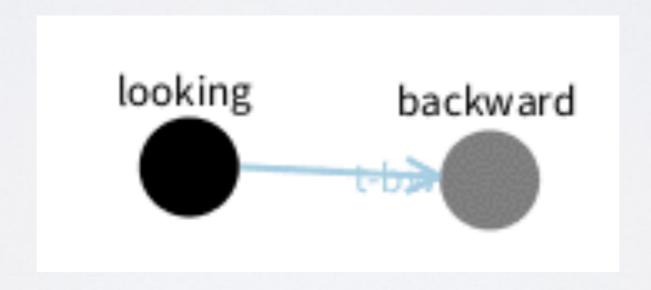
- Compile Blocks
- Variables as Value Holders
- Experience Report: The Lag

#### CHALLENGES

- Compile Blocks
- Variables as Value Holders
- Experience Report: The Lag

#### EXPERIENCE: LAG

```
(on wall looking -> backward t-bw)
(event wall [ultra value read < 20])</pre>
```



### EXPERIENCE: LAG

```
(on wall looking -> backward t-bw)
(on bump looking -> backward t-bump)
(event wall [ultra value read < 20])
(event bump [bumper value read = 1])</pre>
```

### EXPERIENCE: LAG

```
(on wall looking -> backward t-bw)
(on bump looking -> backward t-bump)
```

• • •

```
(event wall [ultra value read < 20])
(event bump [bumper value read = 1])</pre>
```

• • •

#### CONCLUSIONS

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- · Live Programming is awesome (again)
- Robots could be benefited with live programming
- LRP improves the development of robots (?)

# CONCLUSIONS

- Live Programming is awesome (again)
- · Robots could be benefited with live programming
- LRP improves the development of behaviours

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http://pleiad.cl/LRP

