

Sense

think

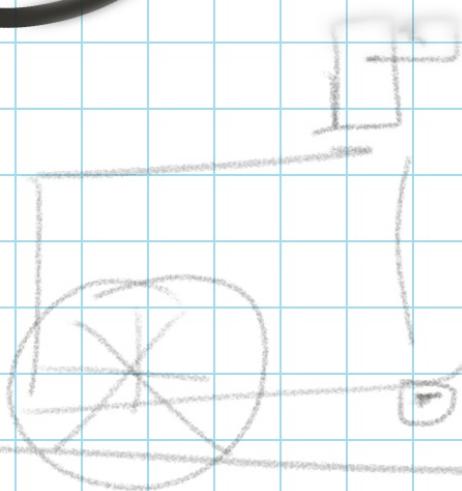
Robot
theme

act

Raspberry
Pi for
computing

Background
Math Rovers

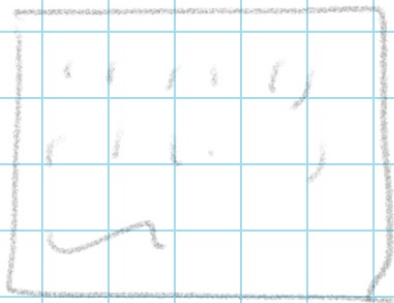
real &
imagined
robots



Sense

Explore different sensors

Distance Light Temperature Vision
Camera



eg Measure light
levels & plot
on a diagram

Set up a
temp sensor
outside
- record
over time

Think

'learners as robots'

Coding — racket language

Graphical intro software

strong maths link

Behavior-driven robots

on the robot

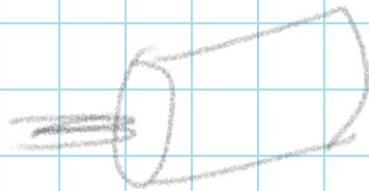
animal world analogies

"fast cheap and out of control"

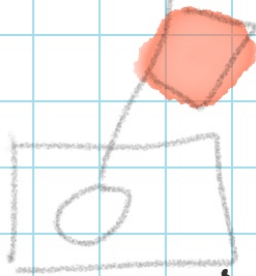
Act



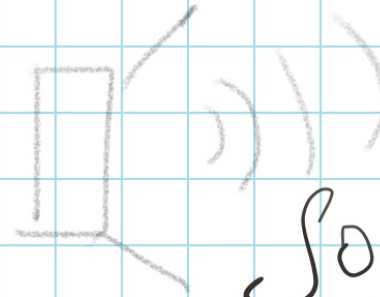
LEDs



Motors



Servos



Sounds

Speech

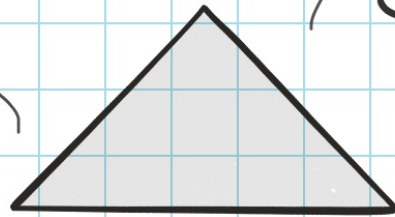
Sonic Pi
Sonification

Aim

robots move through
an environment
display of sensors
announce intentions

Document

Audio



Journals

Slack-type
collaborative site?

Present

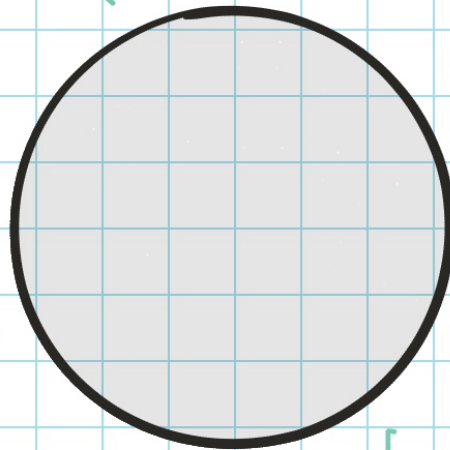
Narrated installation
walkthroughs
Demo days

how to sense environment
Inquisitive

debugging
Persistent

robot
possibility
history
future

Imaginitive



Collaborative
team achieves
results

Disciplined
learn programming
tools