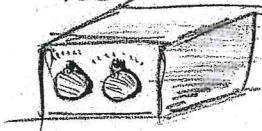


EACH  
KNOB  
0-100



VOLTAGE  
OUT

THE 'REPRESENTATION'  
IS WHAT WE EVOLVE,  
(I.E. RABBITS)

HUMAN INPUT

20, 4  
or  
32, 45  
or  
⋮

REMEMBER

THE 'REPRESENTATION'  
IS A POSSIBLE  
SOLUTION

REPRESENTATION

IT TURNS OUT FOR  
THIS SPECIAL PROBLEM  
TO DATA IN (HUMAN  
KNOB TURNING) IS  
THE SAME AS A  
POSSIBLE SOLUTION

20, 4  
32, 45  
⋮

MORE OFTEN, AS IS THE CASE FOR  
THE WEATHER PREDICTOR, THE  
INPUT DATA AND THE 'REPRESENTATION'  
ARE DIFFERENT

INPUT DATA

PRESSURE	TEMP	CLOUD	DATE
760.3	92	3	071015
750.2	81	4	070915
⋮	⋮	⋮	⋮

REPRESENTATION

push pressure  
push temp  
\*  
push cloud  
-  
⋮

PERHAPS  
AN HP  
STACK  
PROGRAM

WE EVOLVE THE PROGRAMS  
TO PREDICT TOMORROW'S  
WEATHER.

WE USE THE INPUT DATA  
TO EVALUATE THE FITNESS  
OF EACH PROGRAM