LIS-3353

From Instructions to AI

HUGE CONCEPT #2

All computers do is follow a very precise list of instructions that one or more people wrote.

Understanding Power

```
10 PRINT "John is AWESOME";
20 GOTO 10
```

Teaching the robots to escape

1) If there's a door in arms-reach, exit – you're done, else

2) If you can, take one step forward then goto 1), else

3) Rotate to the left until there's not a wall in front of you then goto 1)

(this will get you out of any "regular" empty room)

An almost random bit on recursion

- In computers, it's actually okay to define something with itself.

  PSUEDOCODE!

  Define function="EscapeFromRoom"{

      1) If there's a door in arms-reach, exit – you're done, else

      2) If you can, take one step forward then EscapeFromRoom, else

      3) Rotate to the left until there's not a wall in front of you then EscapeFromRoom

      }

  (this will get you out of any "regular" empty room)

Go to the store; if they have 2% lactose free chocolate milk, then get me a carton.

Misusing Power

```
go to the store;


if  [[ they have 2% lactose free
chocolate milk]]


then


        get me a carton.
```

The Magic Genie
Recursion, trees, and "crowdsourcing"

{0) Start with "Is it Batman"?}

1) Ask my (yes/no) questions down the tree

2) If win, "yay"

3) If lose, add/replace new last question to one for which my guess was wrong and her guess was right *(optionally, try to be general or"half-y"?)*

- repeat until genius