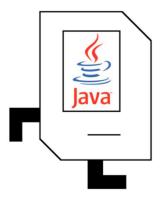
Karel the Robot Learns Java



Jack Beasley Colleen Dai George Younger

Welcome!

Class Logistics

- Class materials @ github.com/mahackers
- If you have not created a GitHub, do so @ github.com/join
 - Inform Jack of GitHub username so we can add you to the organization
- Join the Facebook group
 - Go to tinyurl.com/hackerfb
 - Class news will be announced here

Karel the Robot

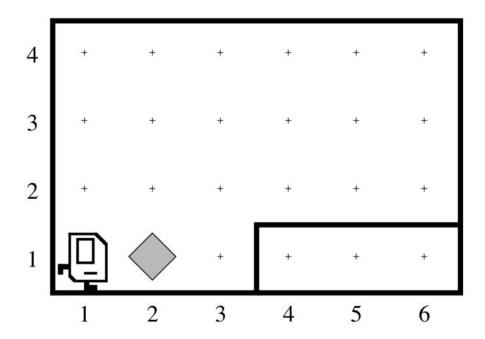
Karel is a very simple robot living in a very simple world.

- By giving Karel a set of commands, you can direct it to perform certain tasks within its world.
- You can program Karel to execute these commands
- The programs you write must obey a set of syntactic rules
- These define what commands and language forms are legal
- The predefined commands and syntactic rules define the Karel programming language

Karel's World

Karel's world is defined by streets running horizontally (east-west) and avenues running vertically (north-south).

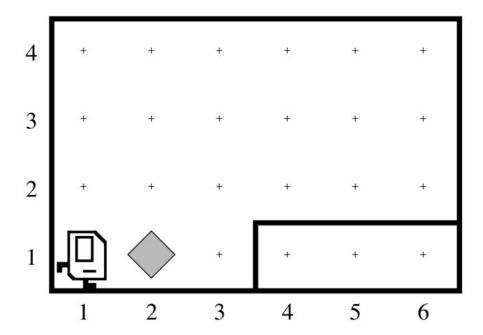
- The diamonds are called "beepers"
- Karel can hold beepers
- Karel can only process a few commands
- What commands?



Karel's Moves

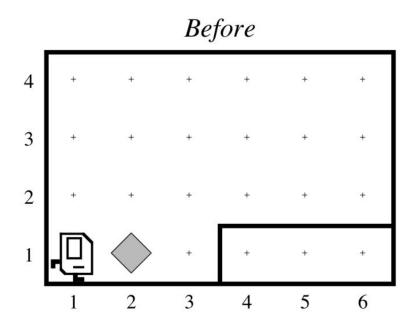
These are Karel's basic commands

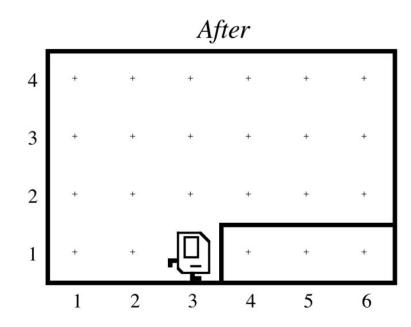
- Karel can:
- move
- turnLeft
- pickBeeper
- putBeeper



Karel Example 1

Trying out Karel

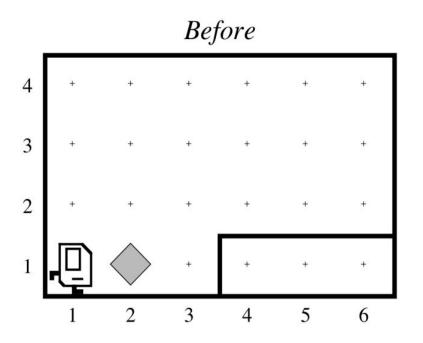


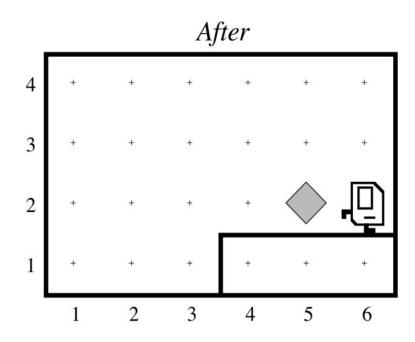


 How can we tell Karel to transform the first image into the next?

Karel Example 2

Trying out Karel





 How can we tell Karel to transform the first image into the next?

On to the Assignments!

Go to the MA Hackers Github