

How to get (more) kids to code

Linda van der Pal
@DuchessFounder



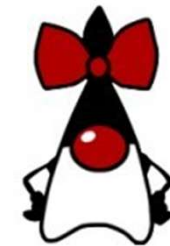
Intro

- Who am I
- Tools
- Events
- Questions



Who am I

- Linda van der Pal
- Java Developer
- Founder of Duchess
- Java Champion
- Organiser of Devox4KidsNL
- @DuchessFounder



Tools



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- <http://drtechniko.com/>

DRTECHNIKO
www.facebook.com/drtechniko

ROBOT LANGUAGE DICTIONARY

Dr kid name

	LEFT	RIGHT
LEG FORWARD	↑•	•↑
LEG BACKWARD	↓•	•↓
BODY ROTATE	↻	↻
GRAB	↓•	
DROP	•↑	
TALK "BIT BOT"		

empty space
for inventing new
commands

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SCRATCH

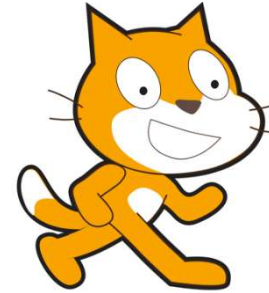


- <http://scratch.mit.edu/>



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SCRATCH



- Demo!

```
move 10 steps
wait 0.2 secs
move -10 steps
wait 0.2 secs
say I'm programming for 3 secs
```



Alice



- <http://www.alice.org>



Alice



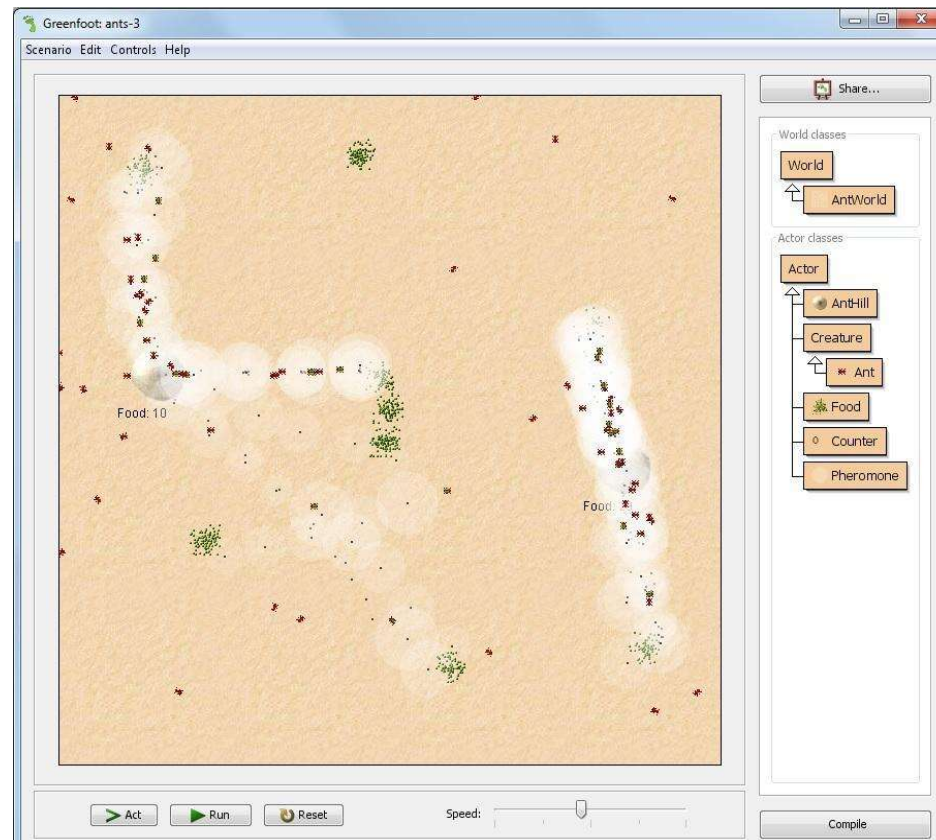
- Demo!



Greenfoot



- <http://www.greenfoot.org>



Greenfoot



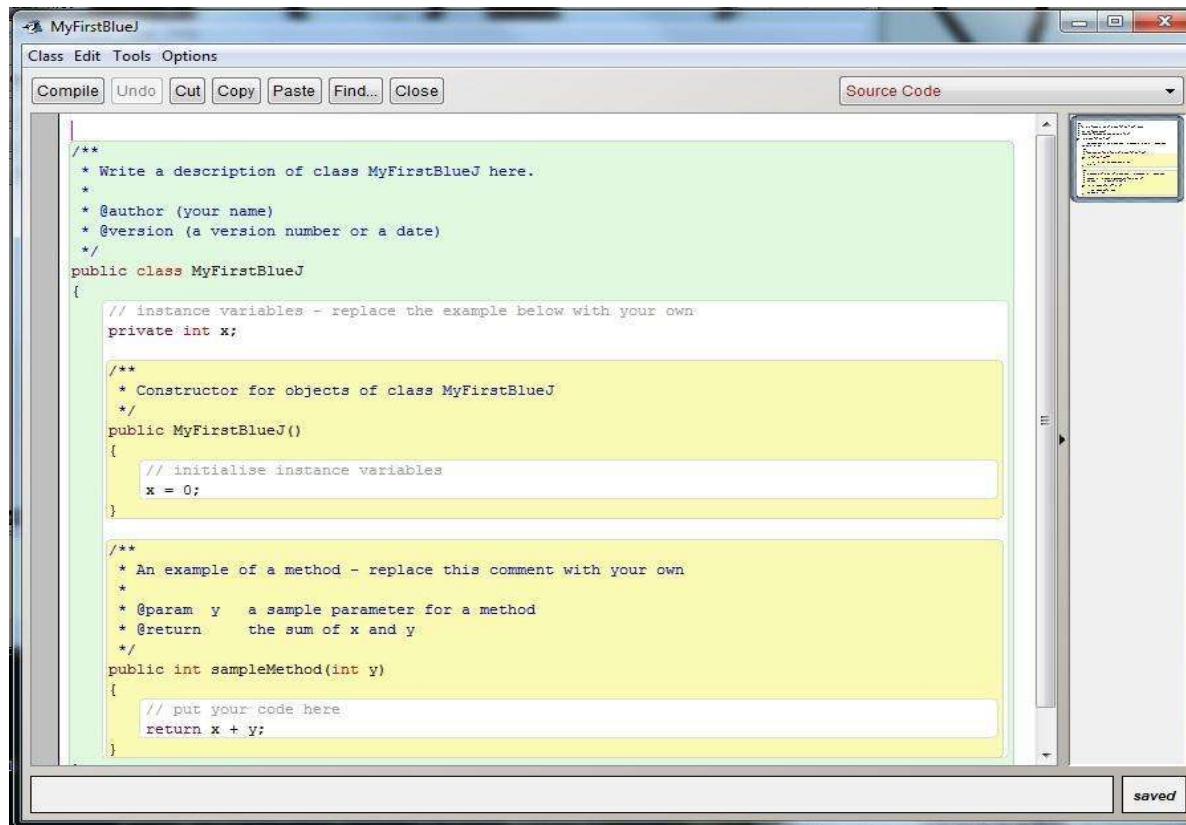
- Demo!



BlueJ



- <http://bluej.org>



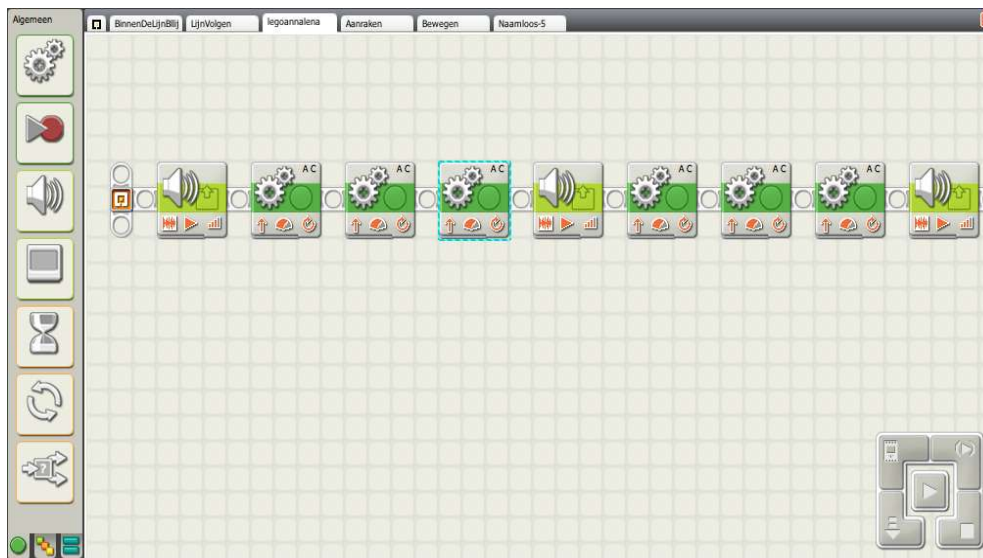
```
MyFirstBlueJ
Class Edit Tools Options
Compile Undo Cut Copy Paste Find... Close Source Code
/**
 * Write a description of class MyFirstBlueJ here.
 *
 * @author (your name)
 * @version (a version number or a date)
 */
public class MyFirstBlueJ
{
    // instance variables - replace the example below with your own
    private int x;

    /**
     * Constructor for objects of class MyFirstBlueJ
     */
    public MyFirstBlueJ()
    {
        // initialise instance variables
        x = 0;
    }

    /**
     * An example of a method - replace this comment with your own
     *
     * @param y a sample parameter for a method
     * @return the sum of x and y
     */
    public int sampleMethod(int y)
    {
        // put your code here
        return x + y;
    }
}
```

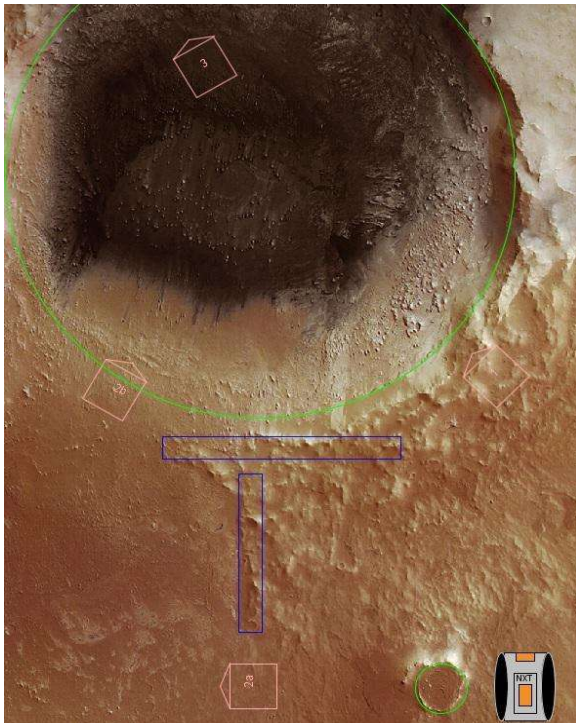


- <http://mindstorms.lego.com>



Sagan

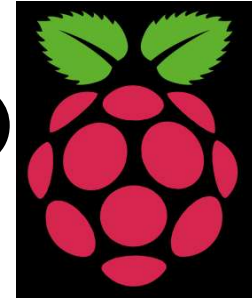
- <http://sagan.be/>



```
# to checkpoint 1
FORWARD 100
TURNLEFT 45
FORWARD 800
TURNRIGHT 45
FORWARD 60
WAIT 5
SENDSIGNAL
# to checkpoint 2
BACKWARD 210
TURNRIGHT 90
FORWARD 1000
TURNLEFT 45
FORWARD 700
TURNLEFT 60
FORWARD 300
```



Raspberry Pi®



- <http://www.raspberrypi.org/>



Events for kids

- *GeeCON* for kids
- Devovx4Kids
- First Lego League
- Maker Faire
- Digivita (NL)
- Coder dojo

