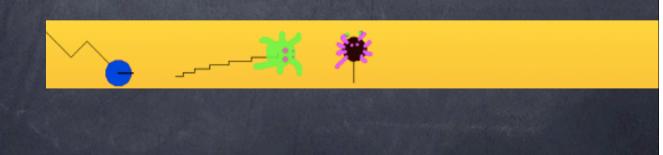
Bot Inc.

http://kilana.unibe.ch:9090/botinc/ ducasse@iam.unibe.ch

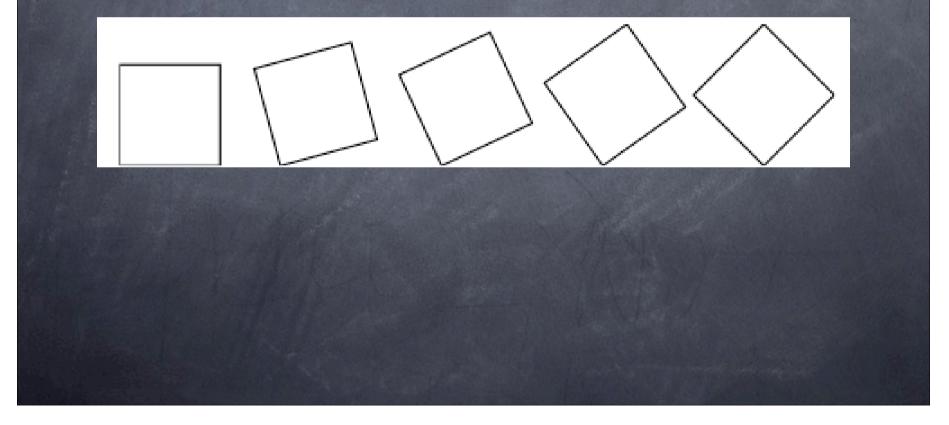


Teaching Programming to Kids of 7..77

What is a program?
What is a variable, loop?
How can I reuse and compose some programs
Programming is fun

A kind of Turtle... Working XB **日**0 Bot Workspace X Micro Browser: Bot private morphic wrapper square: Do It All Do It Clear Trails Clear Bots Clear All shapes A | pica | turning pica = Bot new. variables pica square: 100 V. square: size

Directions, Absolute, Relative Angles

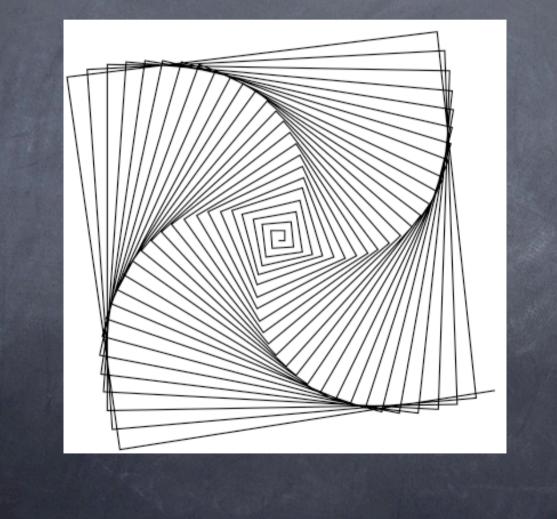


Why Loops?

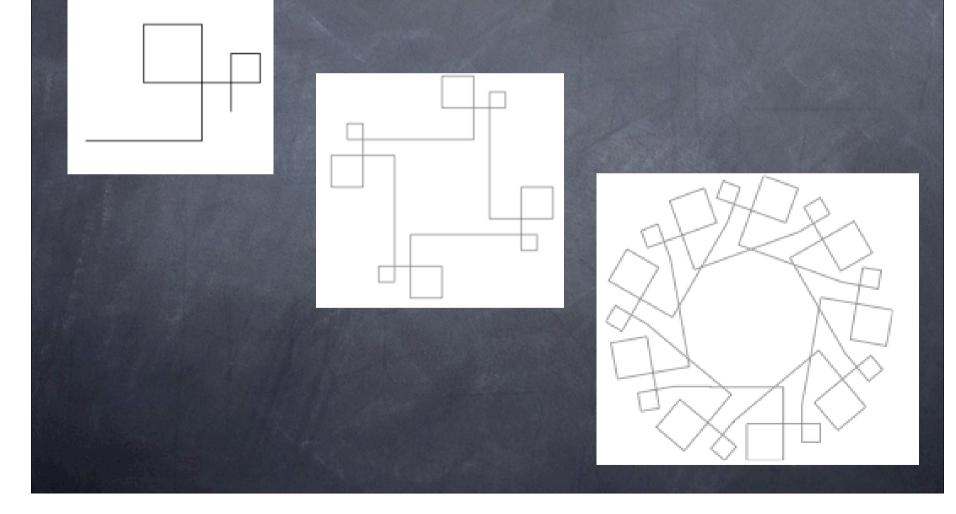
| pica | pica := Bot new. pica go: 70. pica turnLeft: 180. pica go: 70. pica turnLeft: 180. pica turnLeft: 60. pica go: 70. pica turnLeft: 180. pica go: 70. pica turnLeft: 180. pica turnLeft: 60. pica go: 70. pica turnLeft: 180. pica go: 70. pica turnLeft: 180. pica turnLeft: 60. pica go: 70. pica turnLeft: 180. pica go: 70. pica turnLeft: 180. pica turnLeft: 60. pica go: 70. pica turnLeft: 180. pica go: 70. pica turnLeft: 180. pica turnLeft: 60. pica go: 70. pica turnLeft: 180. pica go: 70. pica turnLeft: 180. pica turnLeft: 60.

I pica I pica := Bot new. 6 timesRepeat: [pica go: 70. pica turnLeft: 180. pica go: 70. pica turnLeft: 180. pica turnLeft: 60]

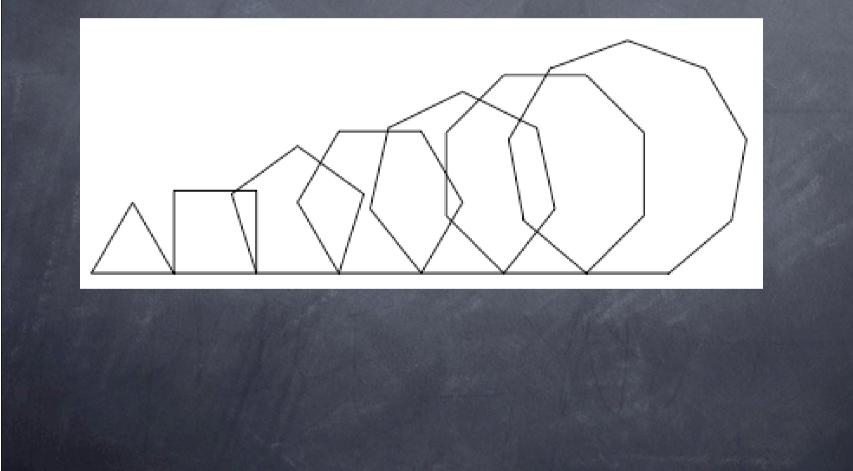
Loops and Variables



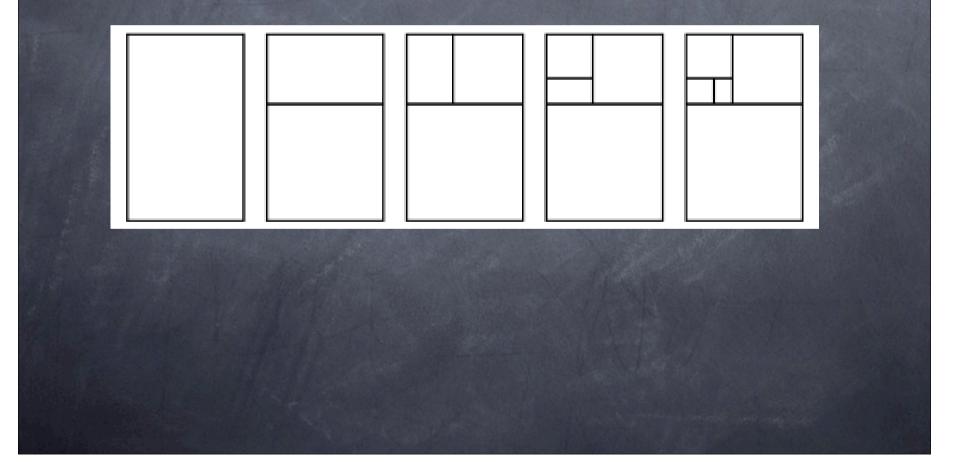
Abstraction and Composition



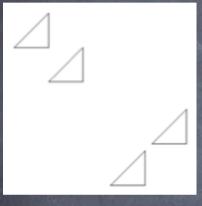
Arguments



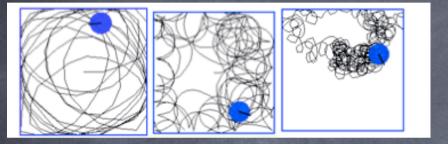
Some Problems



Translation



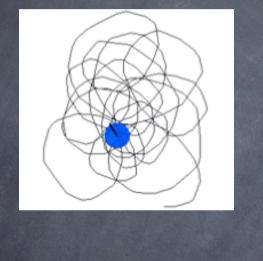
Bug Life

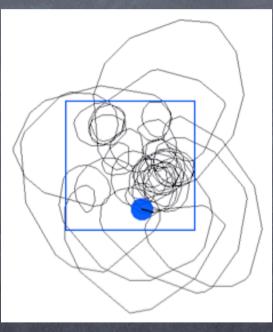


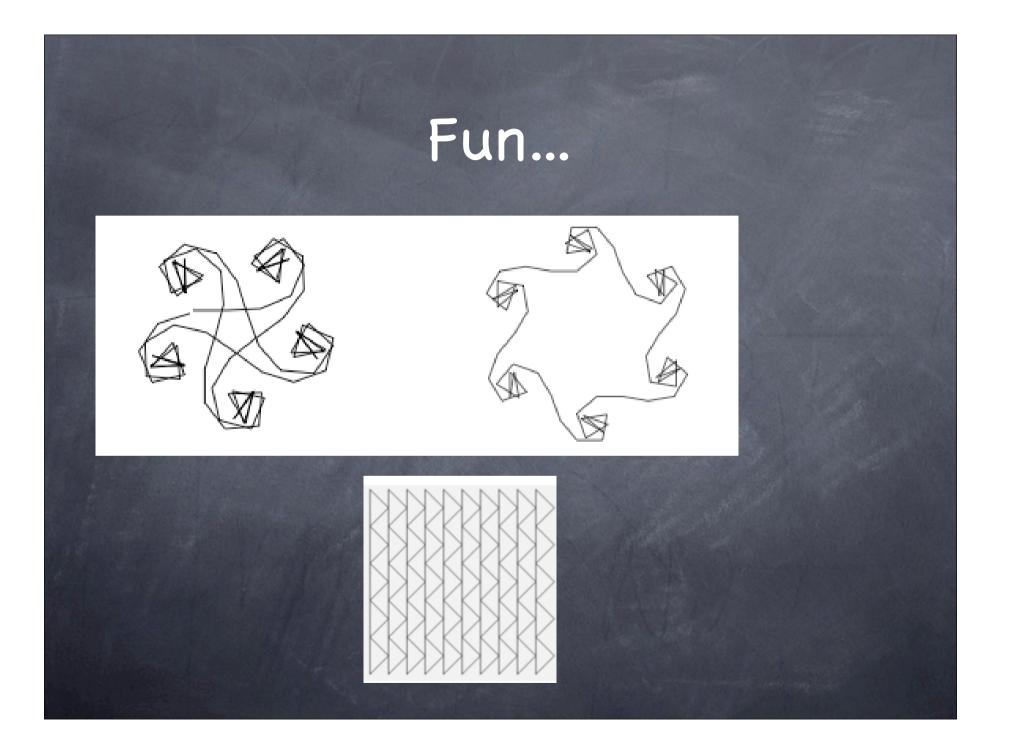
wandering: n "Make the robot walking by a random length and turn randomly its direction"

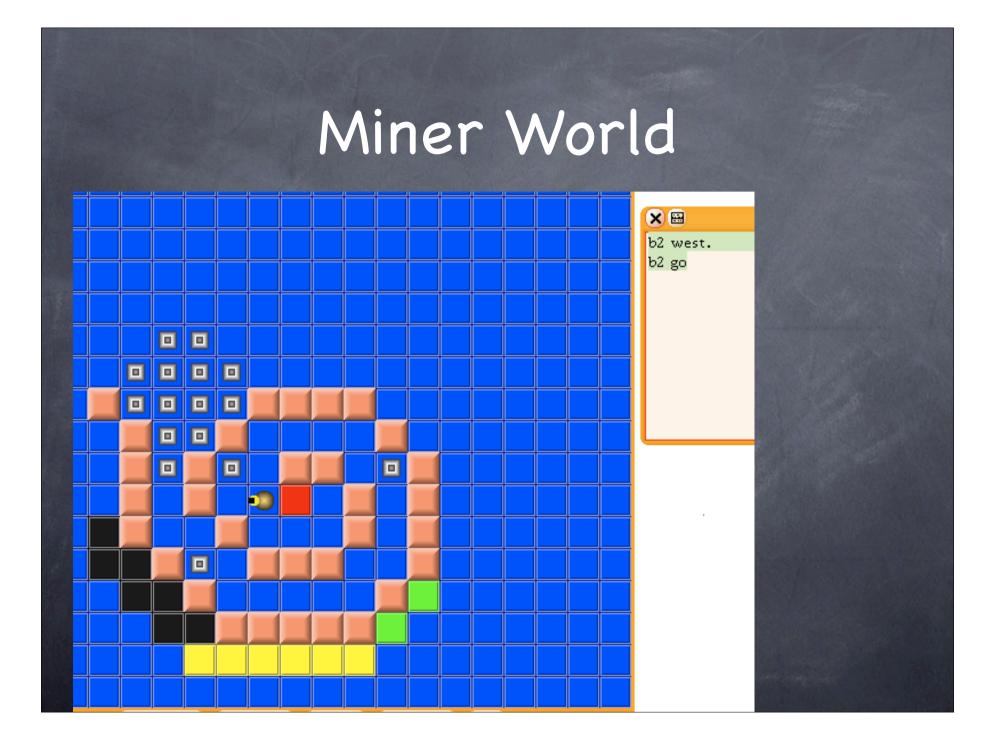
n timesRepeat: [self go: 30 atRandom. self turnLeft: 30 atRandom]

Within a Box

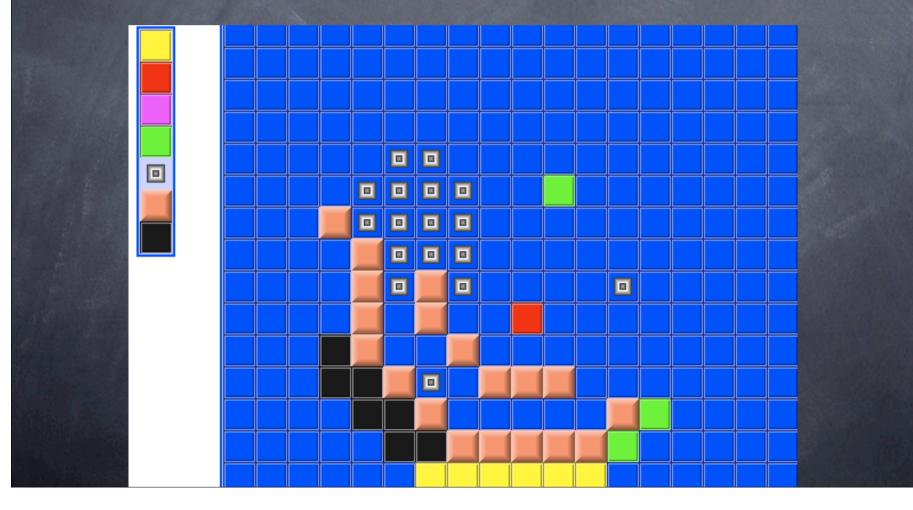








Editing the Bot World



Information

Tested at the French school of Berne
11 to 15 years old
Two books coming out soon
Drafts + environment available at:
http://kilana.unibe.ch:9090/botinc/