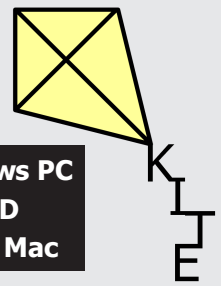# Flowol 4 ™

By: Keep I. T. Easy

Windows PC AND Apple Mac

Computer Science, Robotics and Programming software

Flowol 4 includes 15 mimics, supports more interfaces and with new features is even easier to use.

Simpler resizable toolbars: cut, copy, paste; undo, redo...

2D and 3D mimics can be resized

Inputs and outputs can be named and monitored

Download 30-day Trial www.flowol.com

Drag standard flowchart symbols onto the page, and then link them together using the line tool

Symbols are edited using an on-screen prompt box.

Control the Big Wheel

Start — Turn Wheel fd — Delay 0.5 — Is Steps on? — NO / YES — Turn Wheel off — Delay 5

Start — Turn Red on, Yellow off, Blue on — Delay 0.5 — Turn Red off, Yellow on, Blue off — Delay 0.5

Flowol Big Wheel Mimic

Big Wheel
- Input: Button 1, Button 2, Gate, Steps
- Output: Red, Yellow, Blue, Wheel

Flowol Railroad Crossing Mimic

Edit the Output Symbol

Output	Turn Wheel fd		OK
Red	off	on	
Yellow	off	on	
Blue	off	on	
Wheel	off	fd	rev <power>

Flowol 4 now controls VEX ROBOTICS DESIGN SYSTEM

Use Flowol in VEX Robotics Competition

Run the flowchart and monitor the program. Adjust the speed or pause to demonstrate or correct logic.

Programming visually with a flowchart allows the student to focus on the logic of their solution Flowol 4 supports many programming elements:

- Sequences of instructions
- Branching using decisions
- Loops (infinite, or based on a condition/count)
- Variables and simple variable manipulation
- Sub-procedures (parameters optional)
- Multiple parallel threads

Flowol 4 Software SYSTEM REQUIREMENTS

- Microsoft **Windows XP**, **Vista**, **Windows 7 or Windows 8**
- **OR Apple Mac OS X 10.5, 10.6, 10.7 or 10.8 (Mountain Lion).**
- 512 MB of RAM and 120 MB of available hard-disk space
- Internet connection to download and activate the software.

Flowol 4 can control real models and robots through a range of control interfaces

VEX Cortex

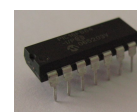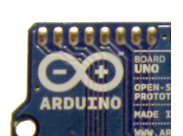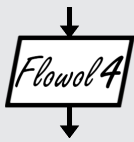fischertechnik ROBO TX and ROBO LT

FlowGo

Deltronics/CoCo

PICAXE

Arduino

Go to www.flowol.com for details of all supported interfaces

Flowol 4

Flowol 4

Download a 30-day trial or watch a short video at www.flowol.com

Windows PC AND Apple Mac

Item	Description	Price
F400X	Flowol 4 Single-User	£30.00 *plus VAT*
F400P	Flowol 4 with Primary School Site Licence	£150.00 *plus VAT*
F400M	Flowol 4 with Middle School Site Licence	£220.00 *plus VAT*
F400S	Flowol 4 with Secondary School Site Licence	£300.00 *plus VAT*
F400U	**Upgrade** Flowol 3 Site Licence -> Flowol 4	£69.00 *plus VAT*
F400V	**Upgrade** Flowol 2 Site Licence -> Flowol 4	£89.00 *plus VAT*

15 mimics included with Flowol 4

These are progressive and introduce programming concepts in manageable steps. Most mimics include a series of graduated activities which encourage the student to explore the task further at their own pace. Results provide differentiation and allow the teacher to assess the student's achievements individually. Flowchart solutions included for teachers.
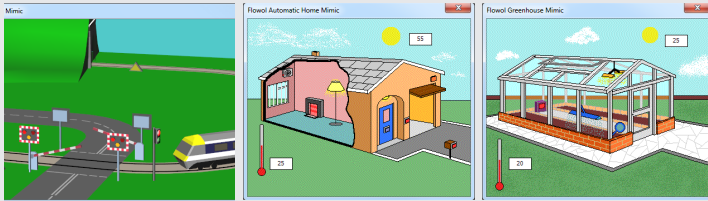
1. The first few mimics introduce the idea of simply controlling one, two and then six lights (outputs).
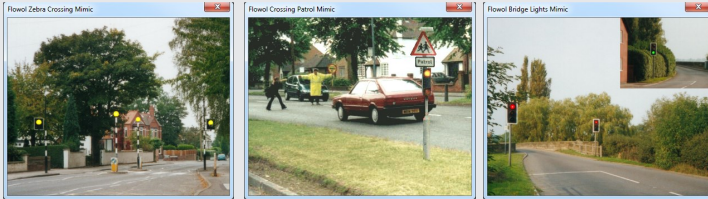
2. Digital inputs and subroutines are then added to operate several events within the same situation.

3. Controlling motors (forward and reverse) are then applied to mechanisms. These can also respond to analogue inputs (temperature & light sensors).

4. Using variables, different motor speeds and virtual inputs, triggered by the mimic itself, bring extra realism to the simulation.
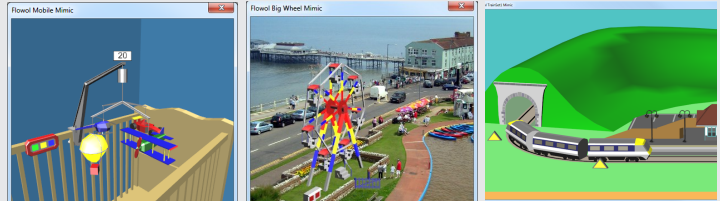
To go beyond these mimics, purchase the Extra Mimic Packs below (Activities and Tutorial included). *** Requires Flowol 4**
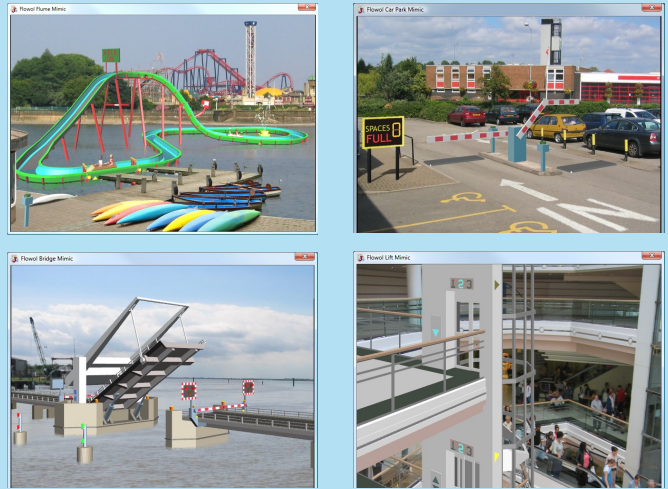
Extra Primary 3D Mimic Pack
Continue the progression with these fun park rides.

P100W	*Primary 3D Mimic Pack 1 Site Licence	£48.00 *plus VAT*

Extra Secondary 3D Mimic Pack
More complex scenarios to stretch programming skills.

S100W	*Secondary 3D Mimic Pack 1 Site Licence	£58.00 *plus VAT*

For complete details of Flowol 4 and all the Mimic Packs go to www.flowol.com