ICT Tools and Environments of Child Development.
Russian approaches and International Context

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examples of psychological tools and their complex systems: language, different forms of numeration and counting, mnemotechnic techniques, algebraic symbolism, works of art, writing, schemes, diagrams, maps, blueprints, all sorts of conventional signs, etc.
Visual environments of logic and mathematics
Visual environments of logic and mathematics
Visual environments of logic and mathematics and algorithms
+time dimension – processes - real

iRobiQ:

- Genibo Edu
Constructions of processes and behaviors
+time dimension – processes – virtual
PiktoMir – GNU-software to control Robot
Problem: given predefined program structure, compose a program to move Robot out of maze
main
  while cell_is_painted do
    A; step
  endwhile
end

A
  if wall_ahead
    then turn_left
  endif
end

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the learner is consciously engaged in constructing a public entity, whether it's a sand castle on the beach or a theory of the universe
ПервоЛого – Microworlds Jr.