

# *Breve introduzione all'informatica*

-- *secondo incontro* --

*G. Barbara Demo*

Dipartimento di Informatica  
Università degli studi di Torino

## SECOND MEETING

*About Scratch:* we become familiar with the Scratch environment and

- work on the translations the students propose\*,
- show how the sequence of instructions and how the selection are expressed in Scratch by considering the GoingHomeFromSchool project.

\* See the Russian translation

## SECOND MEETING cont.

- **Step-1)** short introduction to the Scratch environment while we work on some translations the students had as assignment to show today
- **Step-2)** *As a recall of what we went through during our first meeting I ask if someone can tell other examples of tasks from our everyday life that we need to communicate quite precisely.*
  - *One of my favorite and easiest example is the table: “What to do in case the alarm sounds” present in every school. The order of the actions is important.*
  - *Other examples are dances: they can be very easy sequences of instructions. Specify a dance in a flow diagram*

1/28/2015

B. Demo - Introduzione Informatica - Gennaio 2015

3

## Installazione Scratch 1.4:

- andare all'indirizzo  
[http://scratch.mit.edu/scratch\\_1.4/](http://scratch.mit.edu/scratch_1.4/)
- A seconda del sistema di cui si dispone scaricare Scratch 1.4 per
  - Mac OS X pigiando su [MacScratch1.4.dmg](#)
  - Windows su [ScratchInstaller1.4.exe](#)
  - Debian su [Installa Scratch usando Software Center](#)
- Se avete problemi mandate una richiesta di aiuto sul forum e noi provvediamo con l'assistenza

1/28/2015

B. Demo - Introduzione Informatica - Gennaio 2015

4

When deciding about introducing computing in schools the problem is partly WHAT but mostly HOW: → methodology

- **What:** programming among short introduction to basic aspects such as architecture, formal languages, etc.
- *for introducing programming to persons with little knowledge of computing story-telling is the approach currently followed*

ISSEP 2014

5

HOW: → methodology

- Story-telling is the approach we currently follow for introducing programming to persons with little knowledge of computing
- *has proved to be quite appealing for both students and teachers who need retraining*
- recommended to begin with a **look-seeInside-modify methodology** where teachers look at an already running activity with their students, explore the inside of what they have seen and then change it developing a story of their own.

ISSEP 2014

6

## What about stories .....

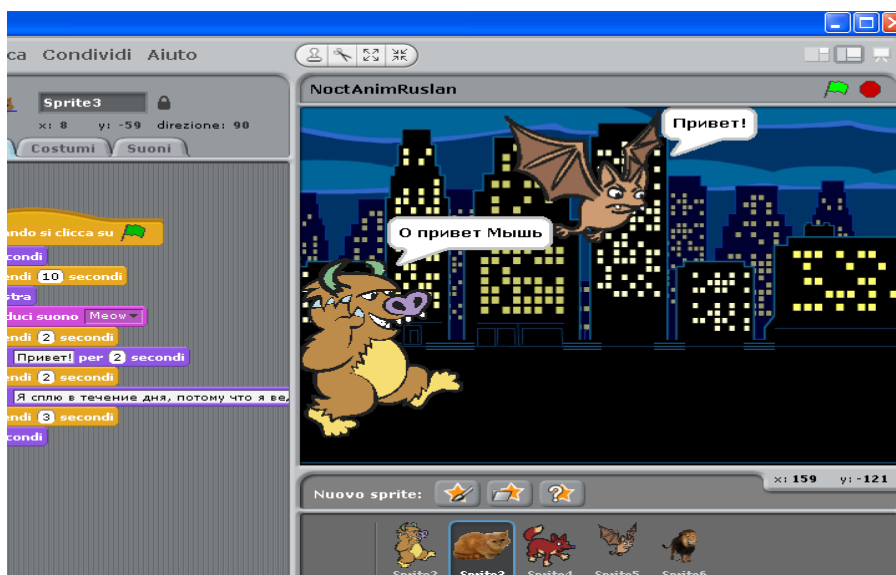
The story named “Nocturnal animals”, has been conceived and developed by an English student 11 years old

In it, a “monster”, out for a walk in a modern city, meets different animals learning that they are going around by night because they are nocturnal animals, but a lion, when challenged, says, “Of course not (nocturnal animal), silly! I am lost!”

ISSEP 2014

7

## The translation of a Russian boy:



ISSEP 2014

8



## Guardiamo lo script (cioè la parte) del gatto nella storia degli Animali Notturni:

Sequenza di azioni da svolgere una volta ciascuna e una dopo l'altra dopo che si è pigiato sulla bandiera verde

1/28/2015 D. Demo - Introduzione informatica - Gennaio 2015 11

## Guardiamo lo script (cioè la parte) del mostro nella storia degli Animali Notturni:

Sequenza di azioni che saranno svolte una o due (come qui) o più volte una dopo l'altra dopo che si è pigiato sulla bandiera verde

15

## GoingHomeFromSchool

Sequenza di azioni che saranno svolte **una o 0 volte** (istruzione **se**) una dopo l'altra. Inizio della sequenza è sempre pigiare sulla bandiera verde

- We analyse what is going on in schools for deciding HOW

### *Stories can be backgrounds for scholchildren performances*

An evolution of the projects described in the previous meeting concern using if-then and if-then-else commands learnt developing our-on-stories into more sophisticated general stories and producing “stories-with-crossroads” [..], i.e. stories having not only sequential actions yet having a development that depends on **user interactions** or on other interactions among characters

## SECOND MEETING last

### *Assignment:*

1. learn how to change the background by reading Lawrence Williams web pages and practice on the Nocturnal animals story  
<http://www.literacyfromscratch.org.uk/teaching/secindex.htm>  
[Teaching Materials Secondary Creating a Story in Scratch:](#)  
... [3: How to change Backgrounds](#) ....
2. draw a storyboard to describe some topic you like better dealt within current lectures of any discipline