

EU Code Week 2021

SPACE TOUR



What do you need?

For the classroom:

- video projector (or smart board)

For each student:

- a computer with Internet access or a computer that already has Scratch software installed (it is useful to have a Scratch tool icon on the desktop)

- computer mouse.

Learning space

School or computer classroom.

ACTIVITY 1.



<https://scratch.mit.edu/>

The Dog Lost In The Space

Scratch

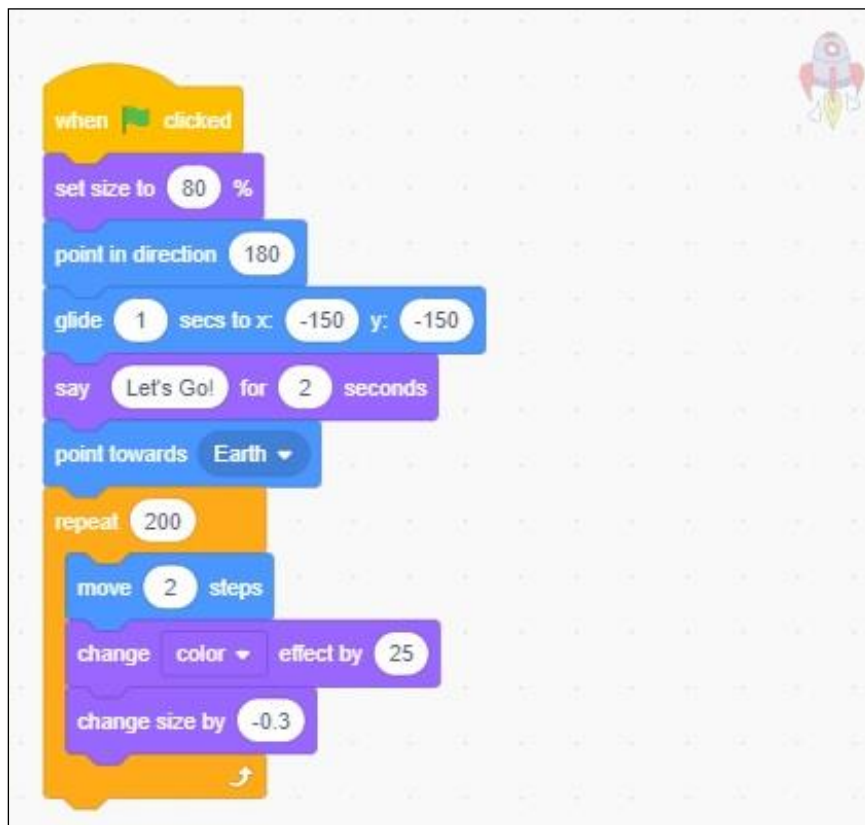
Lesson plan / Lesson scenario

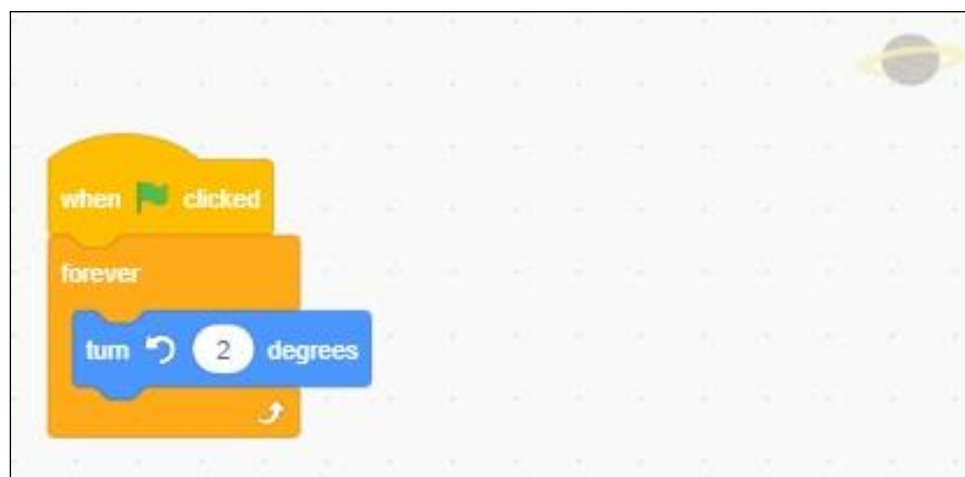
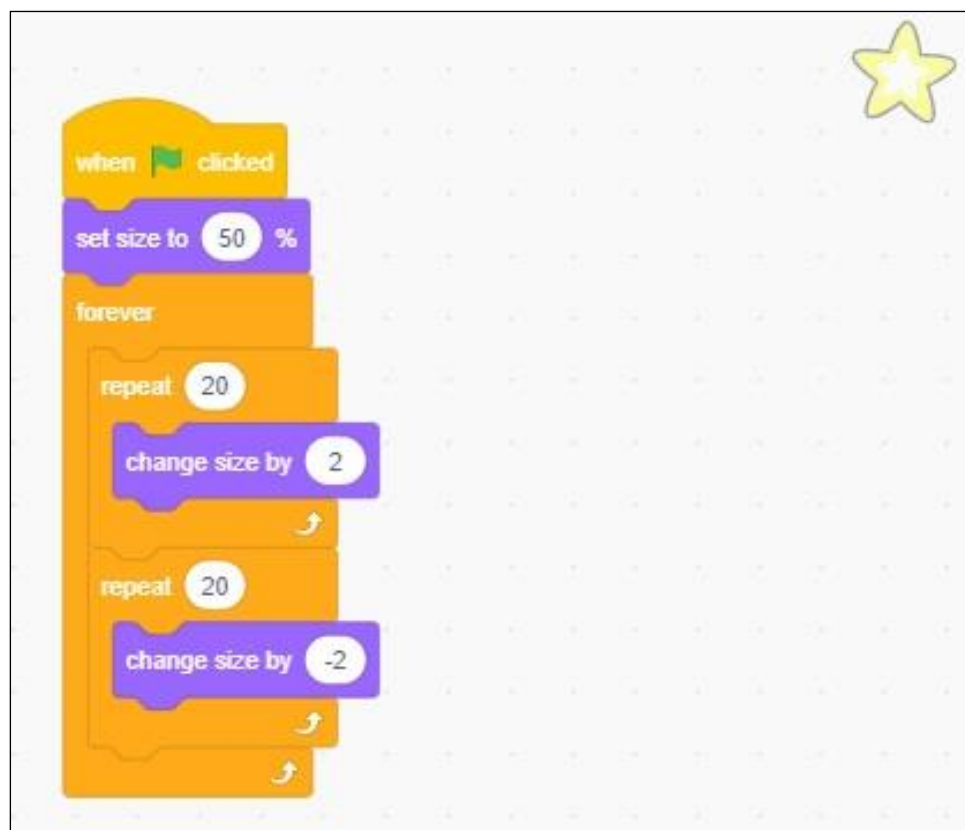
Author: Martina Galić

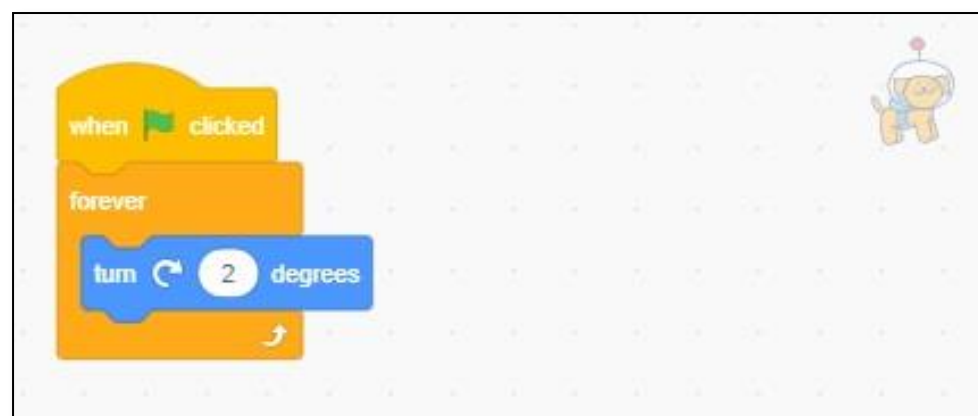
Students discover various movements in Scratch.

Here is one example.

A rocket gliding toward Earth, a star flashing, a planet spinning, a rock moving in space, a dog spinning.







ACTIVITY 2.



<https://scratch.mit.edu/>

Students discover the environment of the Scratch tool and create a short animated conversation.

Here is example.

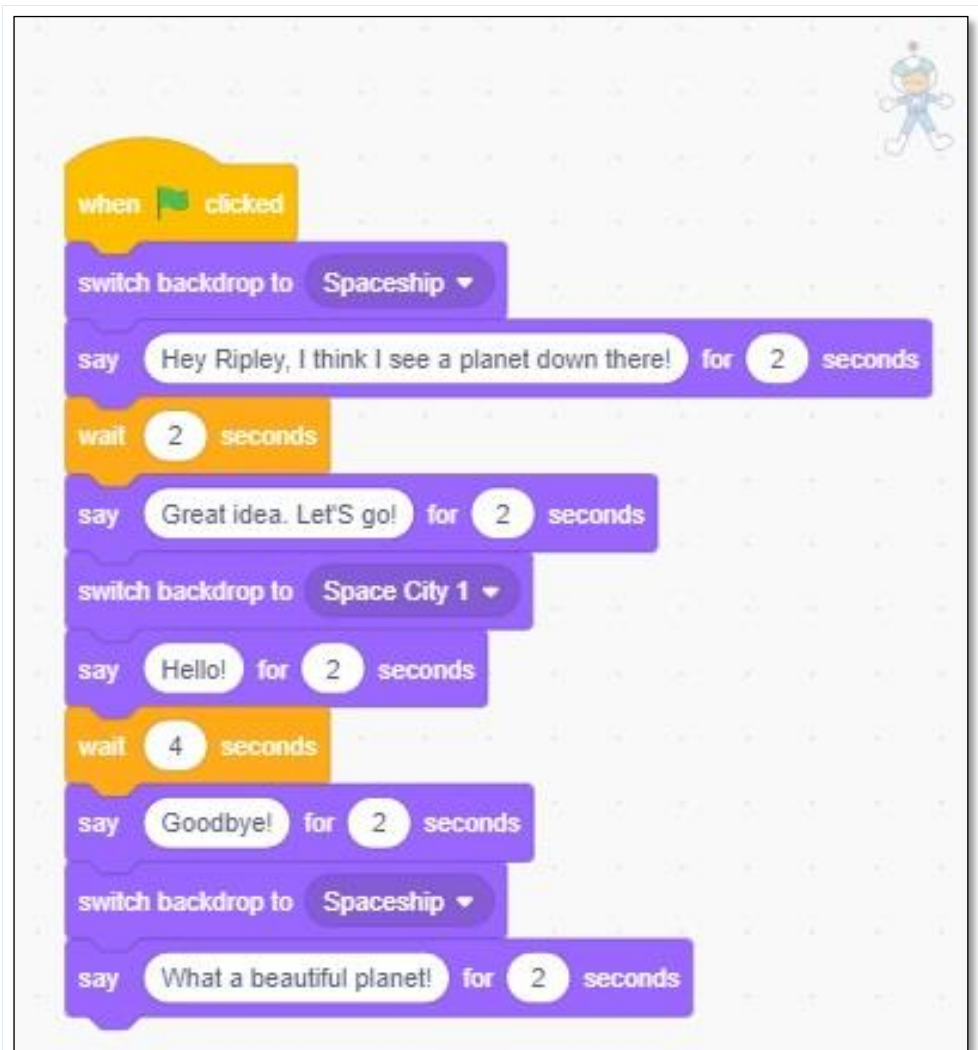
It transitions from a spaceship to a planet where the conversation continues. After the conversation, the characters return to the spaceship. The teacher gives instructions, monitors the class and provides help when needed.

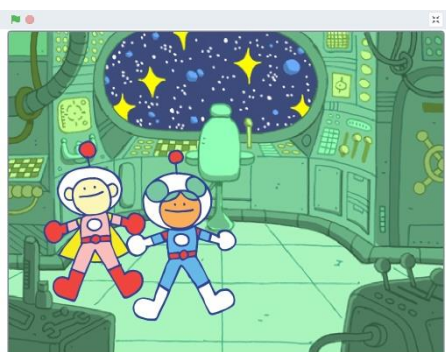
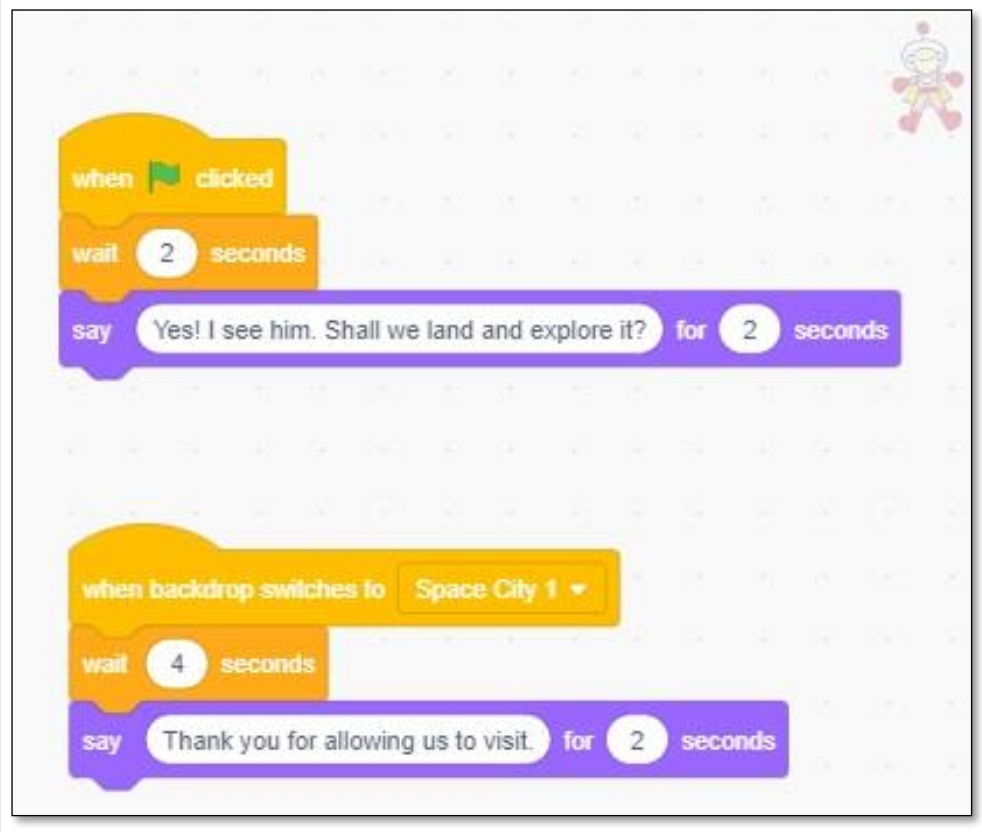
Discovering a New Planet

Scratch

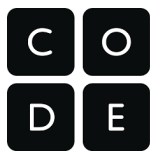
Lesson plan / Lesson scenario

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ACTIVITY 3.



<https://studio.code.org/home>

Dence Party

Lesson plan / Lesson scenario

Author: Martina Galić

In this lesson, learners of all ages get an introductory experience with coding and computer science in a safe, supportive environment. This lesson has been designed for learners of all ages but does require reading. This activity requires sound as the tool was built to respond to music.

Here is one example. Use the code and change the blocks. Edit it as you like.

The screenshot shows the Code.org 'Dence Party' activity interface. At the top, there's a teal header with 'Untitled Project' and buttons for 'Rename', 'Share', and 'Remix'. Below the header, a 'Select song:' dropdown is set to 'Shawn Mendes - If I Can't Have You'. The main canvas displays a robot and several aliens dancing. The 'Blocks' panel on the right shows the code for the activity, including setup, repeat, and after blocks.

Code Blocks:

```
setup
  set background effect
  Neon Flowers
  make 10 new aliens
  in a circle
  make 8 new aliens
  in a row
  make a new robot at center
  robots do Clap High forever
  aliens do Dab forever

repeat every 4 measures
  robots begin size following mid
  aliens begin size following mid

after 4 measures
  robots do Double Down once

after 4 measures
  aliens do Stretch once
```