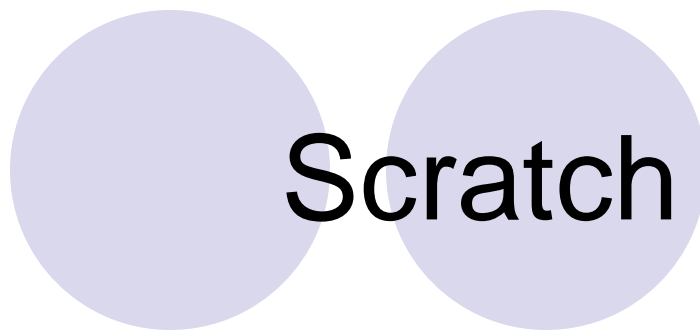
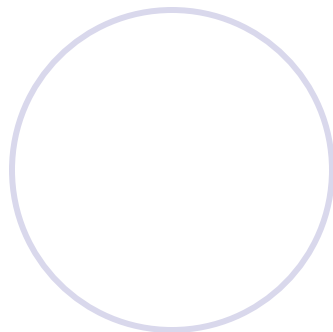
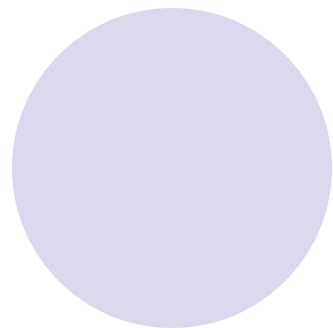
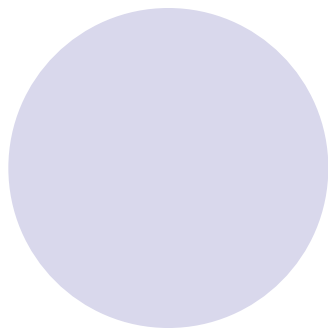


SCRATCH



Scratch



Saša Buklijaš

Udruga SOK



<http://www.sok.hr>

Što je Scratch



- Vizualni programski jezik
- Ciljana skupina
 - od 8 do 14 godina
- Dostupna za
 - Windows 2000, XP, Vista, and 7
 - Mac OSX 10.4 or later
 - Linux (deb, rpm, source)

Scratch programi



- Projekti na Internetu
 - Mogu se dijeliti
 - Preko 1 milijun projekata

SCRATCH

New Open Save Save As Share! Undo Language Extras Want Help?

1 Joke

- Motion
- Looks
- Sound
- Pen
- Control
- Sensing
- Numbers
- Variables

Chica
 x: -148 y: -41 direction: 90
 Scripts Costumes Sounds

Navigation icons: Arrow, Person, Scissors, Rotate, Zoom

Green Flag and Red Stop icons

move 10 steps
 turn 15 degrees
 turn 15 degrees
 point in direction 90
 point towards
 go to x: -148 y: -41
 go to
 glide 1 secs to x: -148 y: -41
 change x by 10
 set x to 0
 change y by 10
 set y to 0
 if on edge, bounce
 x position
 y position
 direction

```

when clicked
say Knock knock... for 2 secs
wait 2 secs
say Banana for 2 secs
wait 2 secs
say Knock Knock... for 2 secs
wait 2 secs
say Bananaaaaaa for 2 secs
wait 2 secs
say Knock! Knock! for 2 secs
wait 2 secs
say Orange for 2 secs
wait 2 secs
say Orange you glad I didn't say banana!!!! for 5 secs
play drum 49 for 0.25 beats
  
```



Scratch icons: Stage, Pencil, Folder, Trash

mouse x: 24 mouse y: 289

Instruction... Scripts: 1
 Ella Scripts: 1
 Chica Scripts: 1
 Stage

Crtanje

Umetni Obriši

Natrag Ponovi

Veličina četkice: ▾ •

+ Set costume center

OK Prekini

Kamera

Gotovo

Novi lik

Računalo

hr1ub098

Radna površina

Kostimi

Costumes ↑ ↓

Animals

Fantasy

Letters

People

Things

Transportation

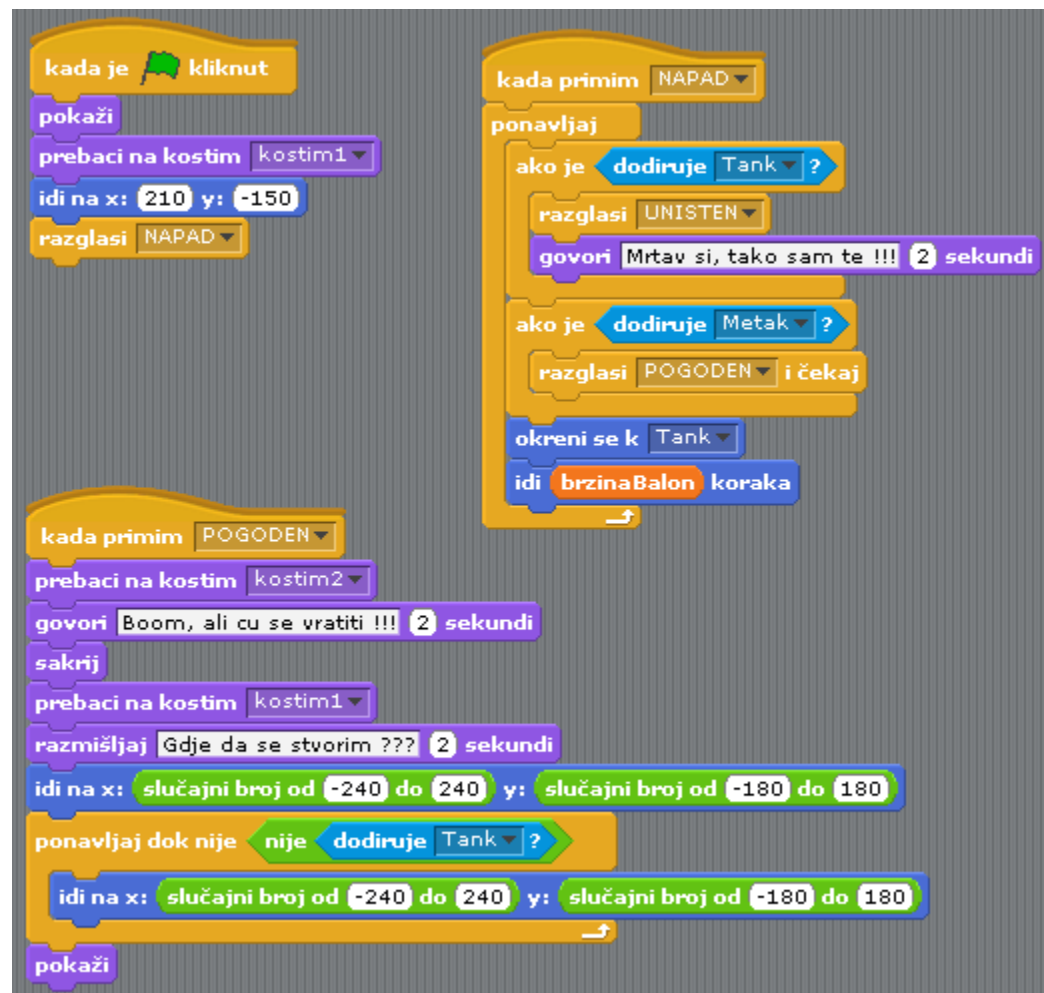
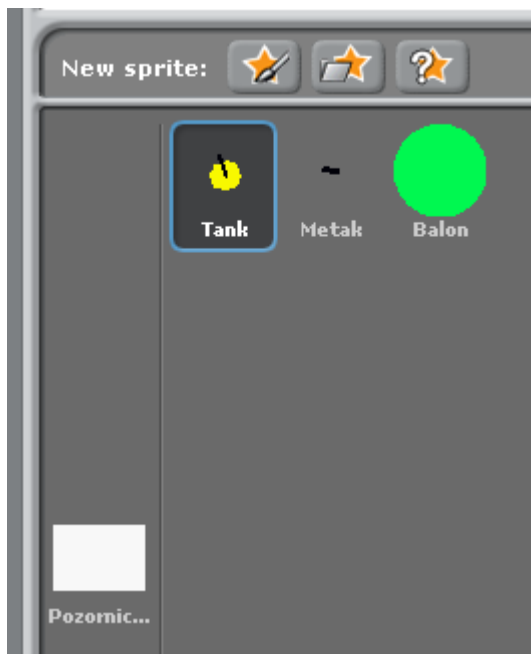
OK Prekini

Snimi zvuk

0:00

OK

Prekini

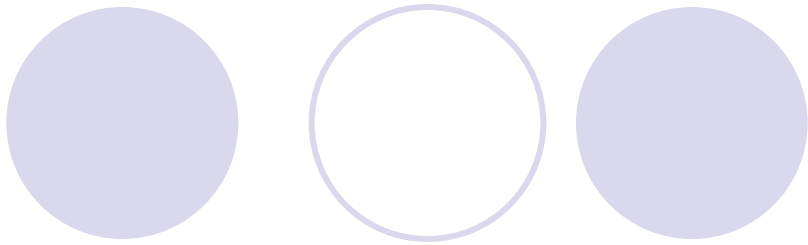


Što se sa Scratchom može napraviti

- Interaktivne prezentacije (storytelling)
- Igre
- Izračuni

Prednosti



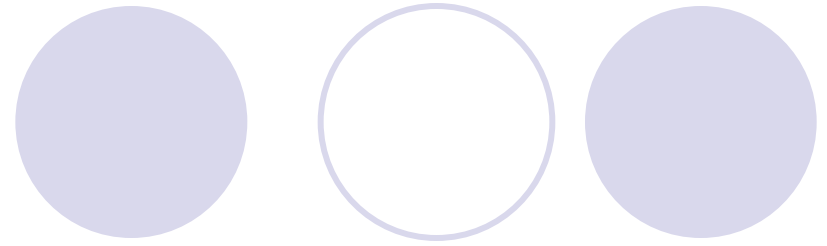
- Jednostavno
 - Zanimljivo
 - Nema sintaksnih greški
- 

Što se može naučiti



- Osnove programiranja
- Varijable
- Petlje
- Grananje (if/else)

Pitanja ???



- Hvala na pažnji