

Kodiranje i kriptografija u nastavi

Željka Zagorac

Učiteljica RN, savjetnica

OŠ Borovje, Zagreb

KODIRANJE

Programiranje – pisanje uputa računalu što i kako napraviti

Programski jezik

Kako naučiti?



[Subjects](#) ∨ [Courses](#) ∨ [Using FutureLearn](#) ∨



Online course in [Teaching](#)

Teaching Programming in Primary Schools

Understand key programming concepts and apply them using Scratch, with this introductory course for primary or K-5 teachers.



Raspberry Pi



[Join course for free](#)

Što je u ponudi?

waterbear



The **WATERBEAR** welcomes you!

Waterbear is a toolkit for making programming more accessible and fun. Having a visual language means you don't have to focus on learning a syntax to start programming.

[Try it out](#)



[Kreirajte](#)[Istražite](#)[Ideas](#)[O programu](#)[Pretražite](#)

What's Happening?

This is where you will see updates from Scratchers you follow

[Check out some Scratchers you might like to follow](#)

Scratch novosti

[Sve prikažite](#)

Wiki Wednesday!

Check out the new Wiki Wednesday forum post, a news series highlighting the Scratch Wiki!



New Scratch Design Studio!

New year, new ideas! Did you know Scratch has starter projects for you to remix? Remix one of the starter projects and make it your own...



Wiki Wednesday!

Check out the new Wiki Wednesday forum post, a news series highlighting the Scratch Wiki!

Dijeljeni Projekti



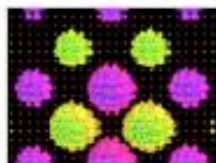
Polar Bear-- A Block
christophercomet



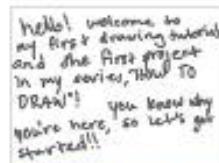
Speed Art Parallax
UltimateChurro



backpack customize
stringlitsky



gobo.
slemon-



How to draw | Drag
spru-



Featured Studios



The Board Game Studio



Calligraphy / Hand Lettering



Geology Rocks!



BAKERS OF SCRATCH



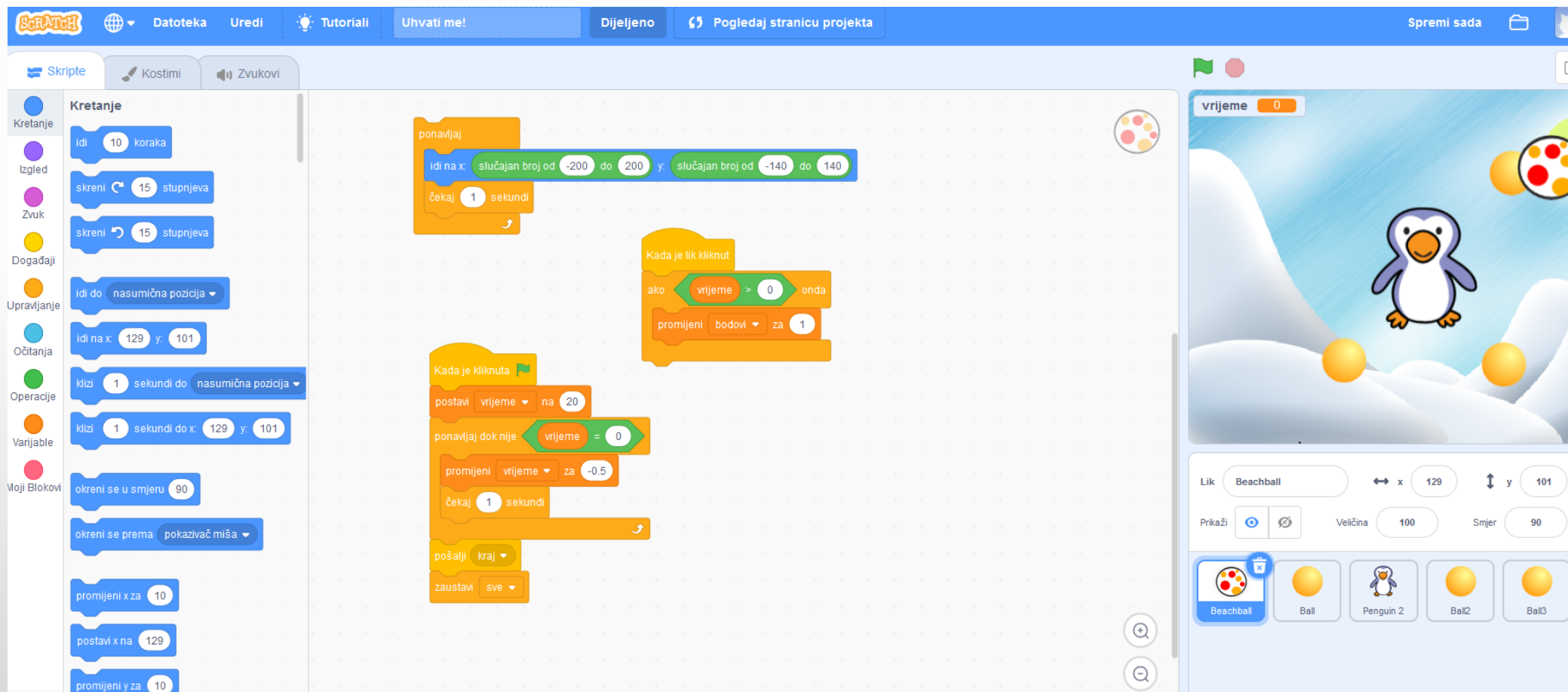
The Palace of Scepter



<http://scratch.mit.edu>

Scratchov račun za učitelje

Sučelje za rad



Europski tjedan kodiranja

Scratch workshop

Organized by:

Osnovna škola Borovje

Happening at:

OŠ Borovje, Ulica Davora Zbiljskog, Zagreb, Hrvatska

From Friday 12th of October 2018 at 11:30 **to** Friday 19th of October 2018 at 13:00

Description:

Scratch workshop for 4th graders - game coding

More information:

http://os-borovje-zg.skole.hr/nastava/projekti/ostali_projekti/eu_code_week

This event is for:

Elementary school students

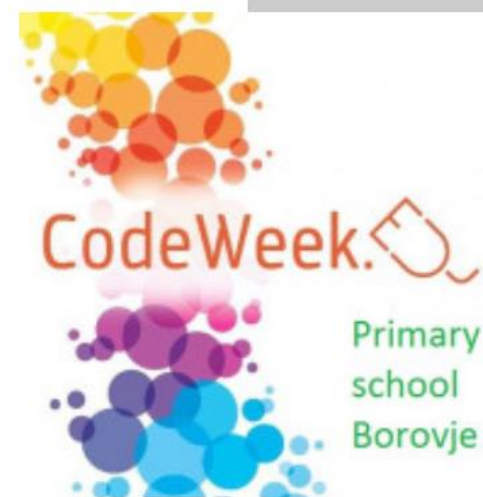
Main themes:

Basic programming concepts

Playful coding activities

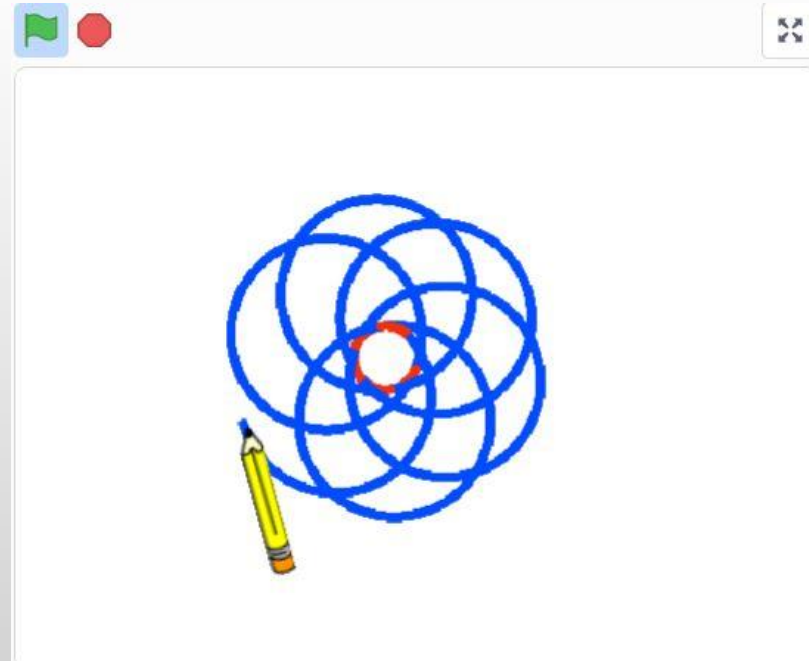
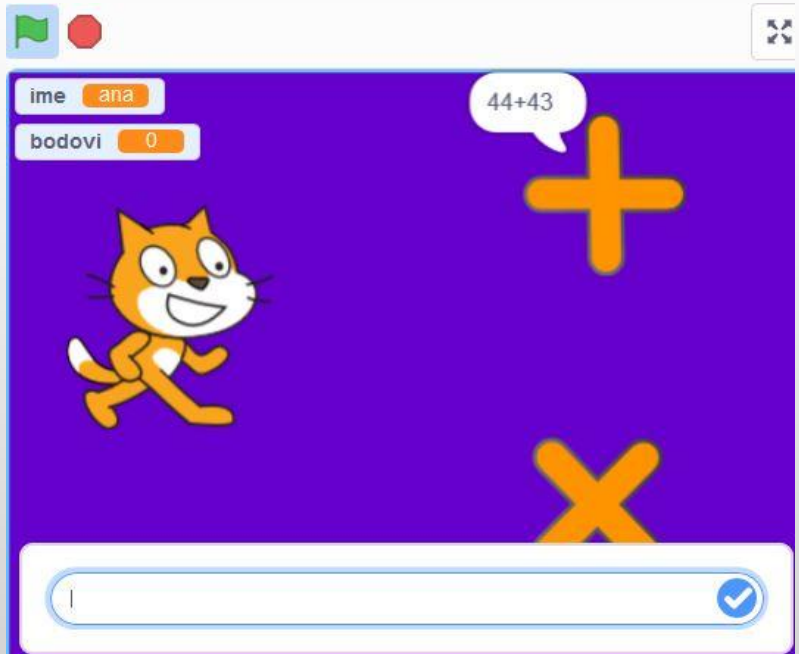
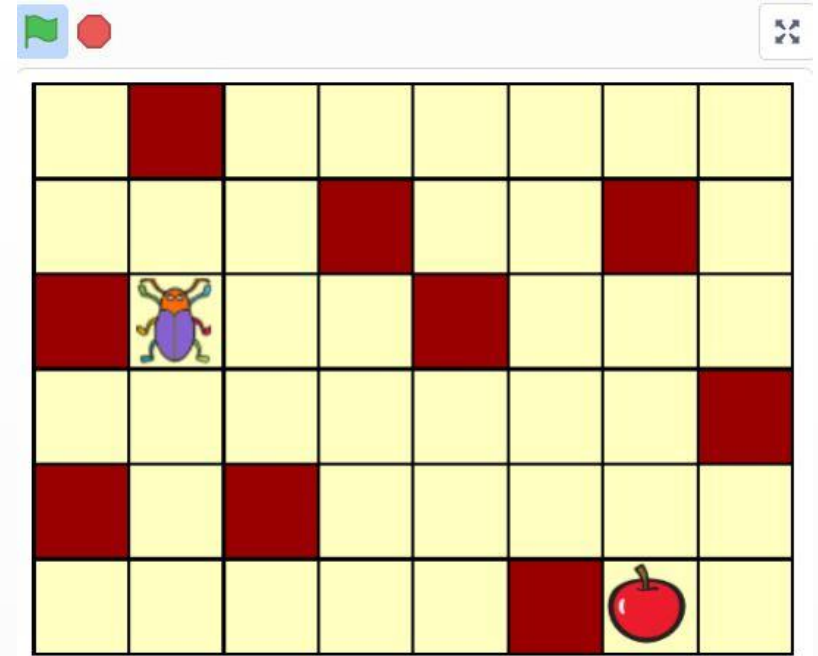
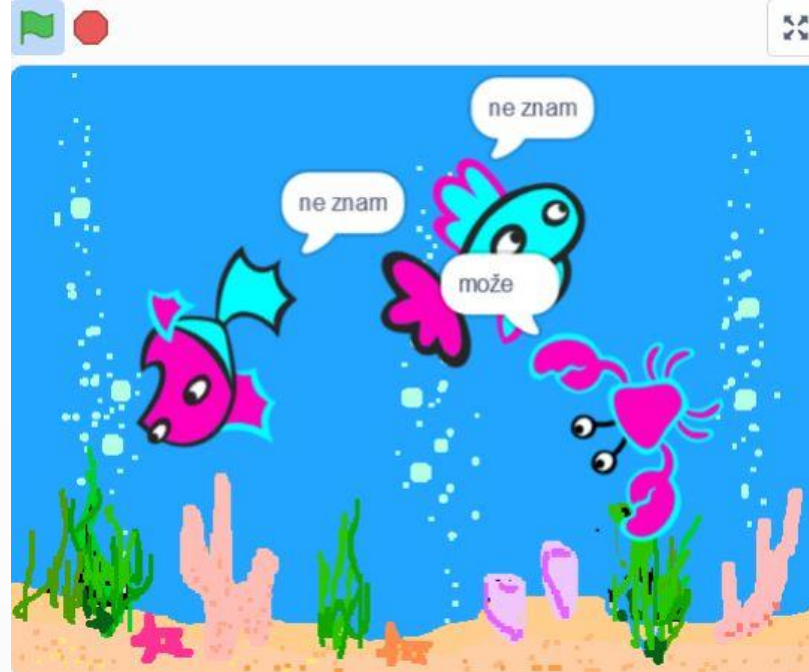
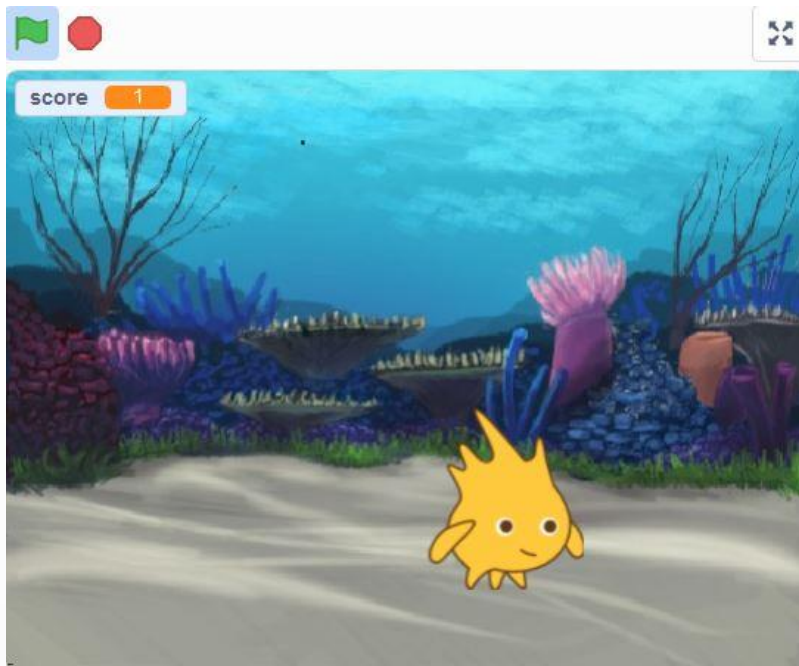
Tags:

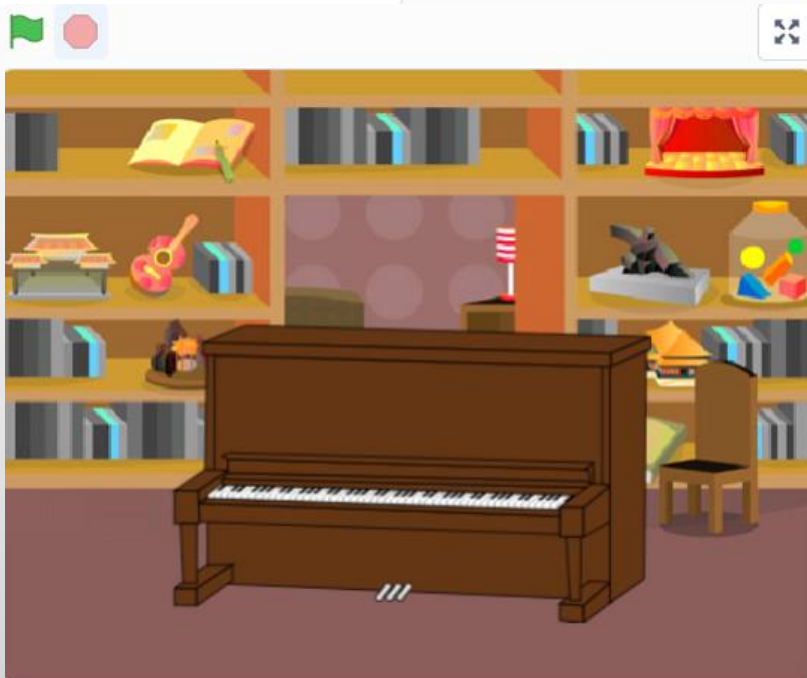
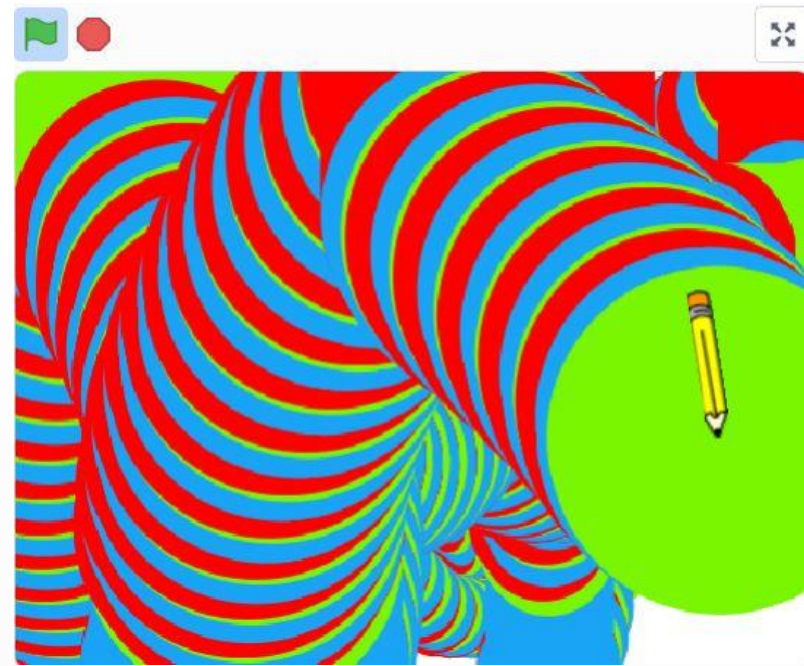
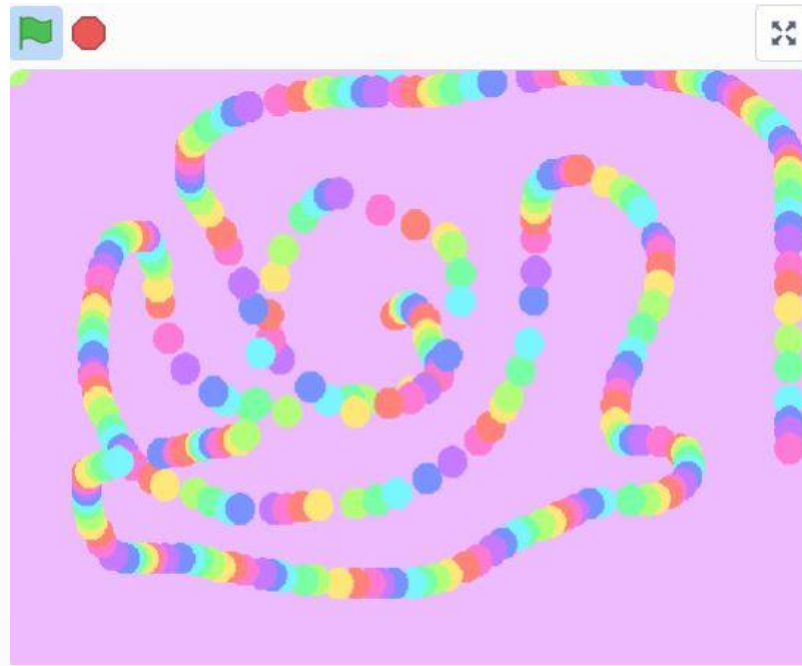
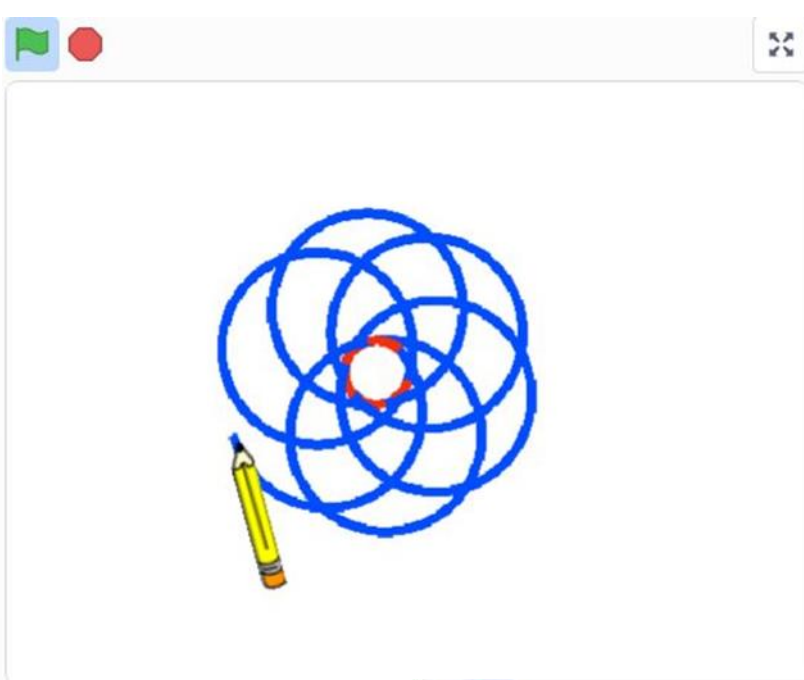
[EDIT EVENT](#)



October 2018						
Mon	Tue	Wed	Thu	Fri	Sat	Sun
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21

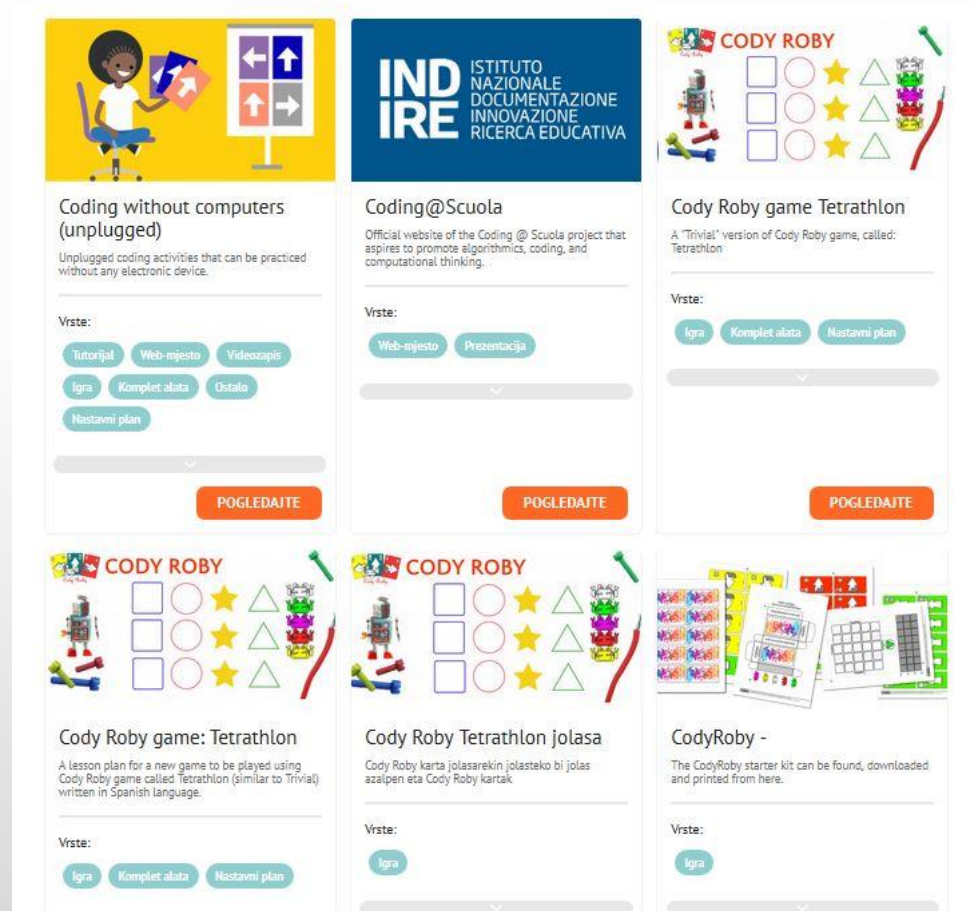




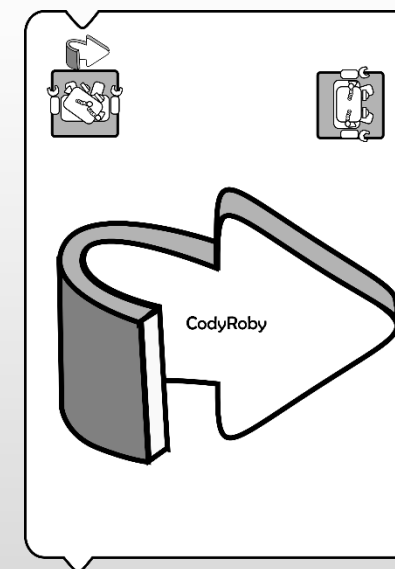
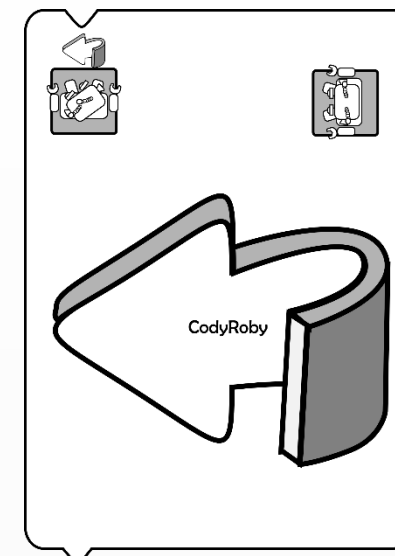
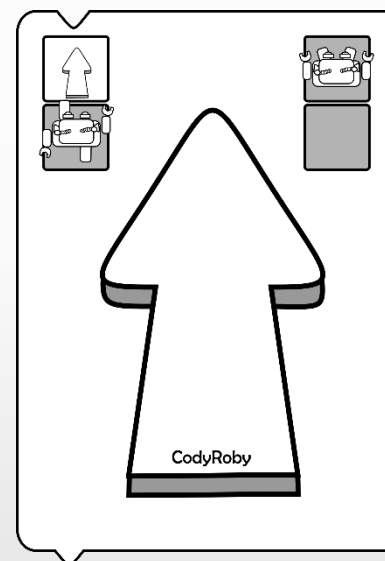
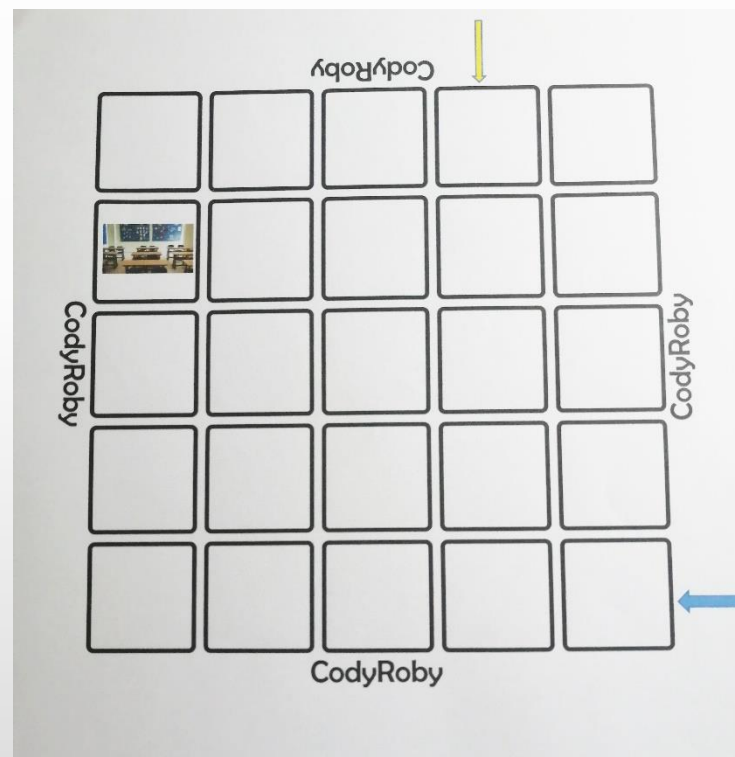


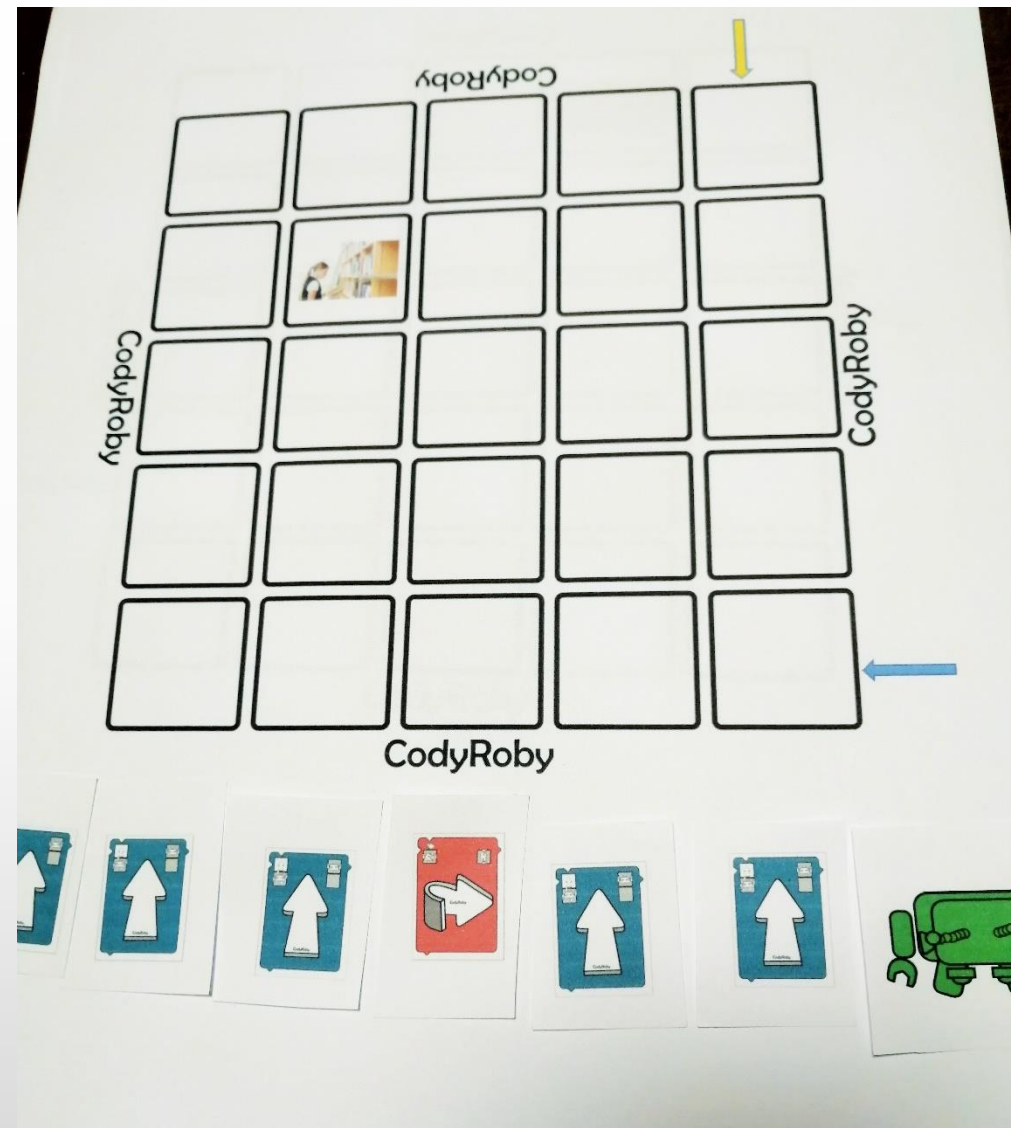
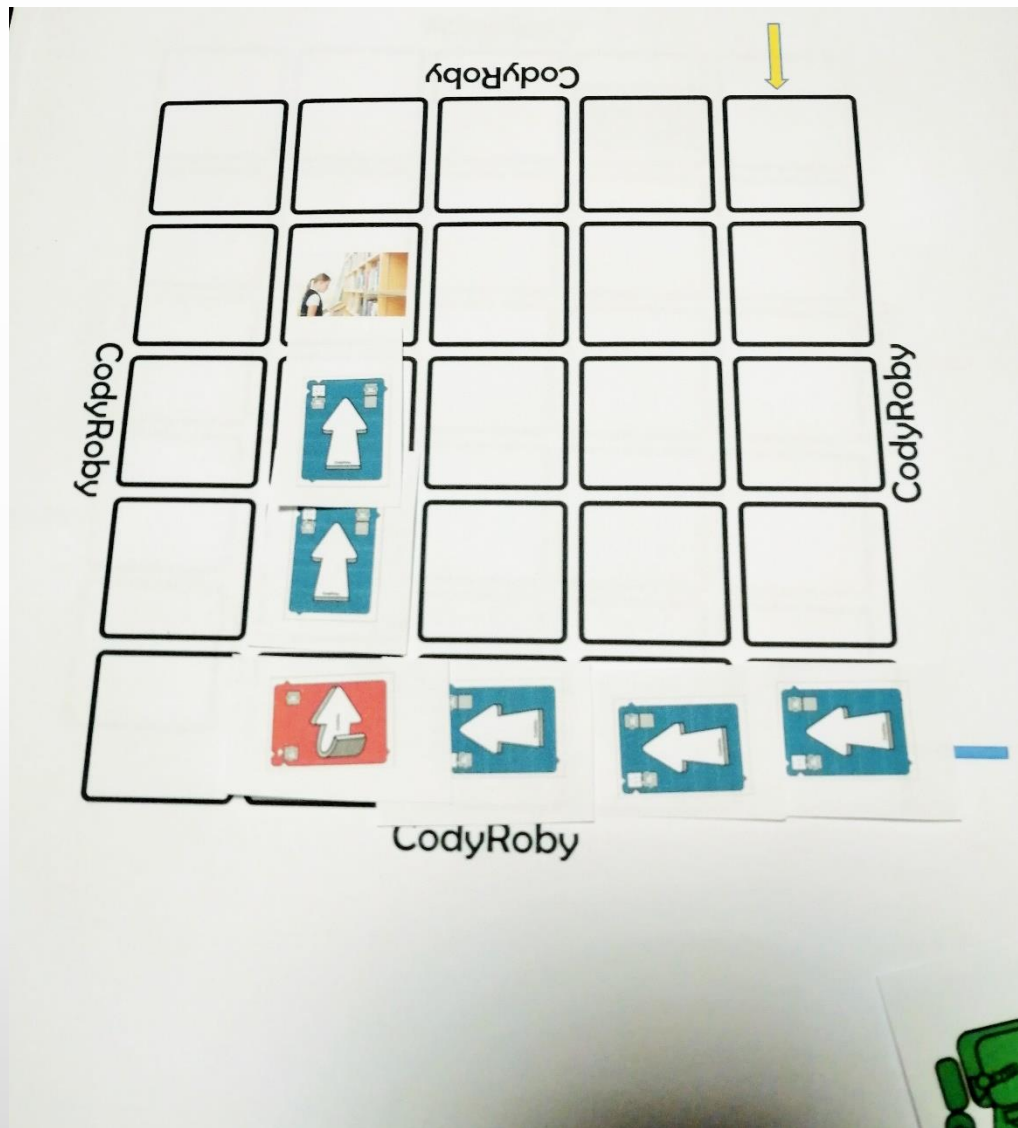
<https://scratch.mit.edu/projects/159482734/fullscreen/>

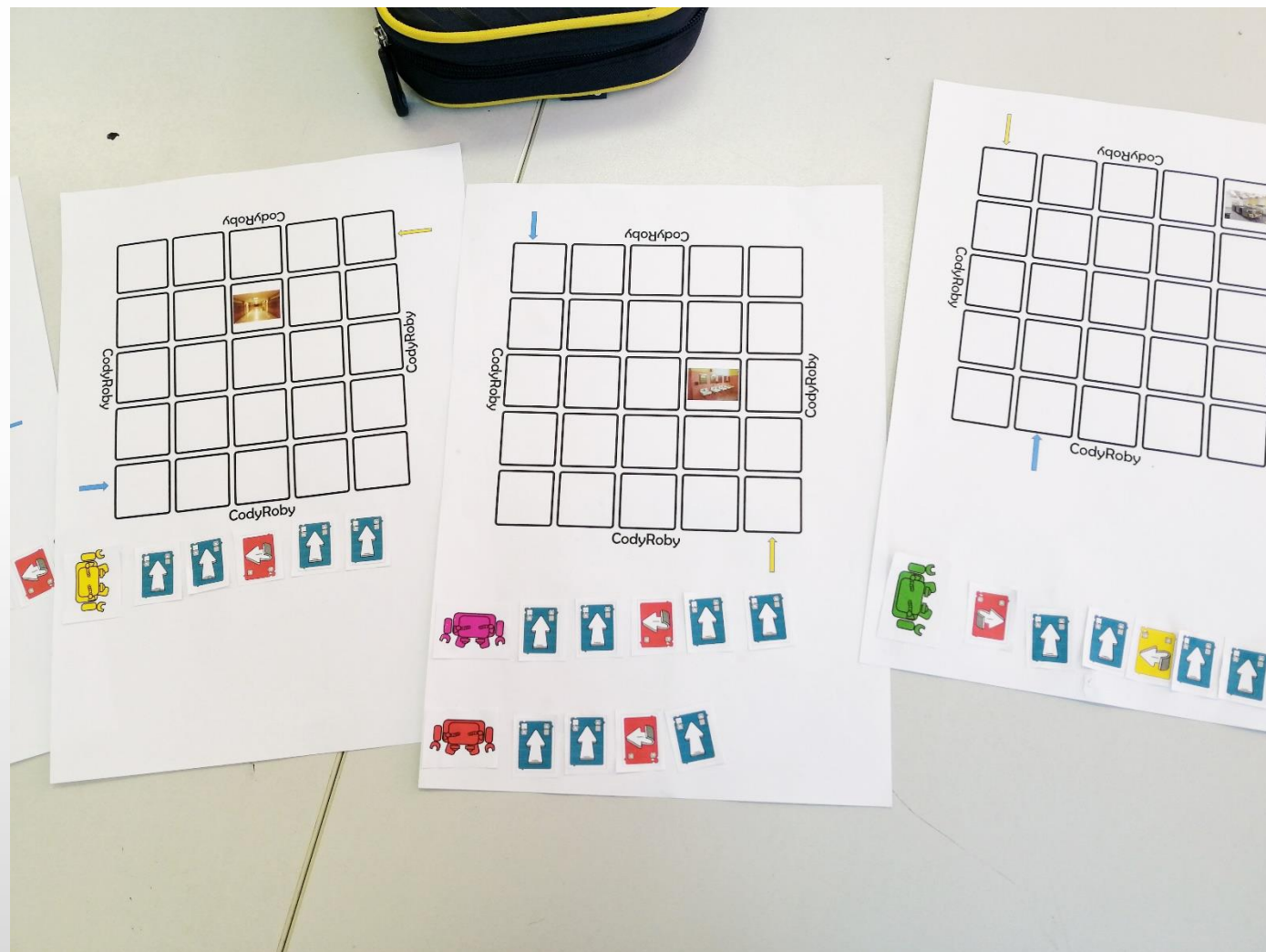
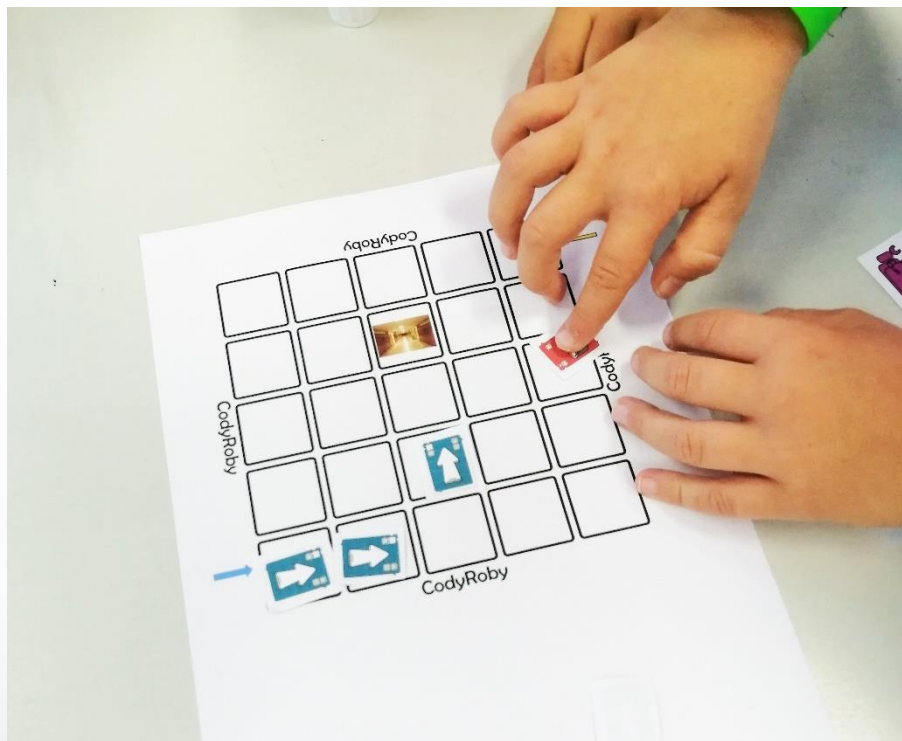
1. razred: Unplugged coding



Materijali za rad



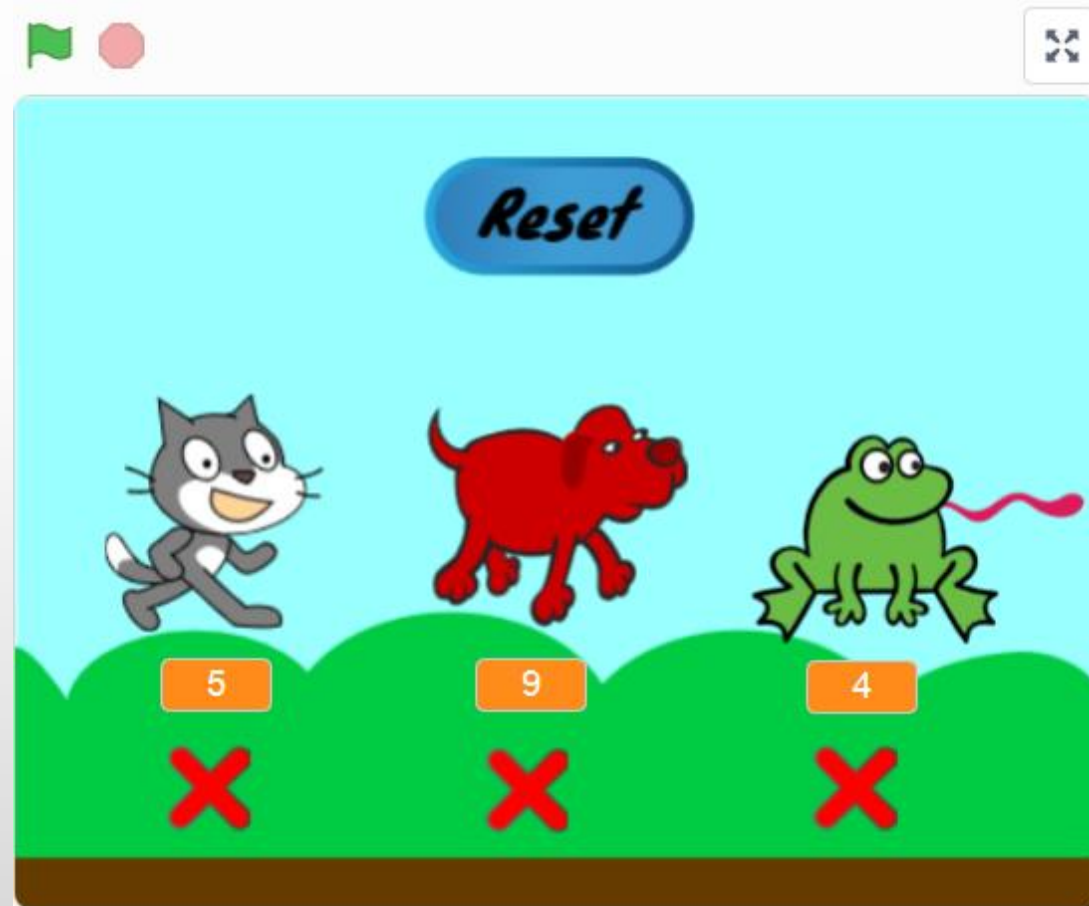




Promjena perspektive; kretanje prema obrascu



Vrednovanje



Dobre strane - utjecaj

- Razvija računalno razmišljanje (eksperimentiranje i ponavljanje, testiranje i uklanjanje pogrešaka, ponovno korištenje i remiksiranje, apstrahiranje i modulacija)
- Razvija kritičko razmišljanje
- Rješavanje problema
- Potiče kreativnost
- Potiče originalnost
- Razvija strateško razmišljanje
- Stvaralaštvo umjesto konzumerizma

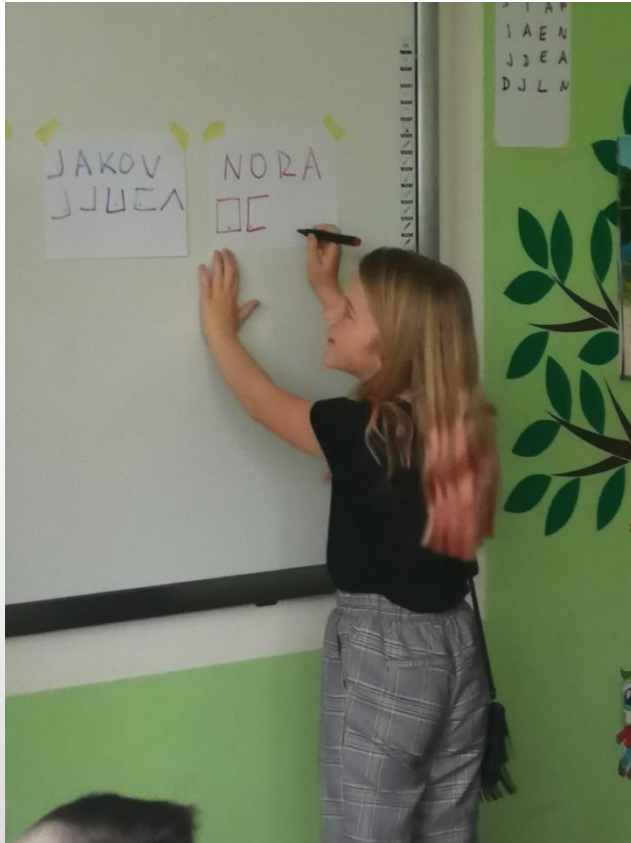
Resursi:

- Scratch <https://scratch.mit.edu/>
- EU Code Week <https://codeweek.eu/>
- više o računalnom razmišljanju - što je i kako procijeniti njegov razvoj kod učenika - iz resursa u prilogu ili posjetom <http://scratched.gse.harvard.edu/ct>
- Materijali za učenje – kodiranje bez računala <https://codeweek.eu/training/coding-without-computers>

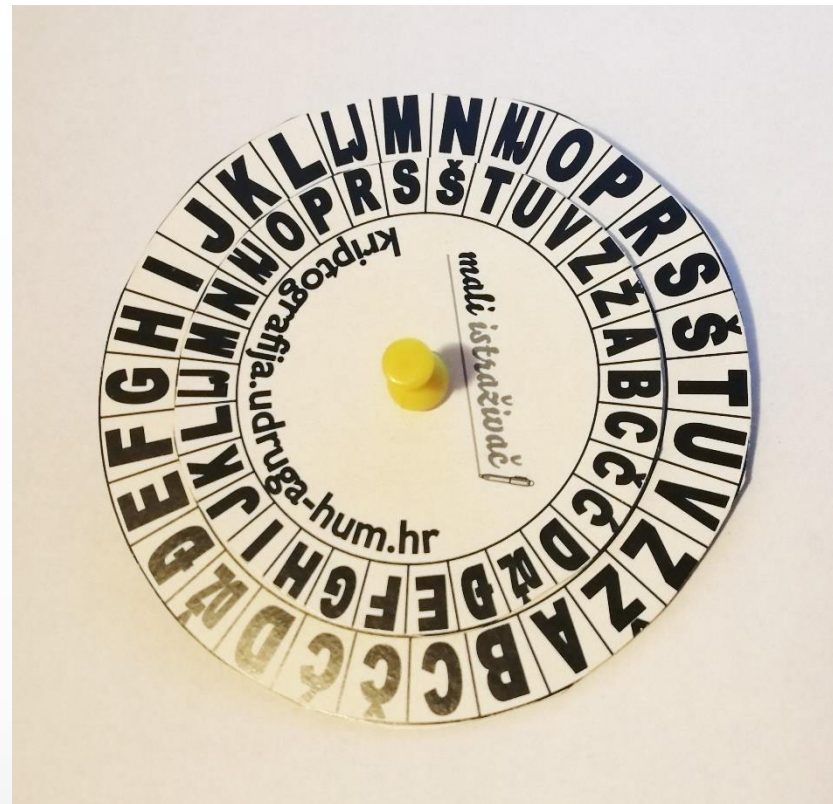
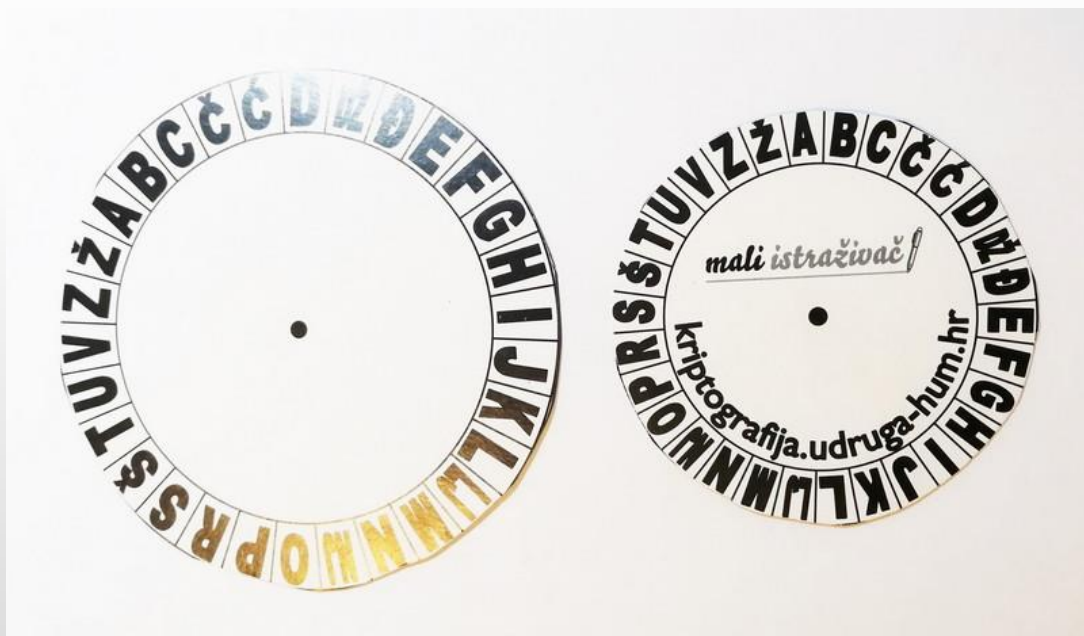
KRIPTOGRAFIJA



Projekt Radar



ŠIFRARNIK

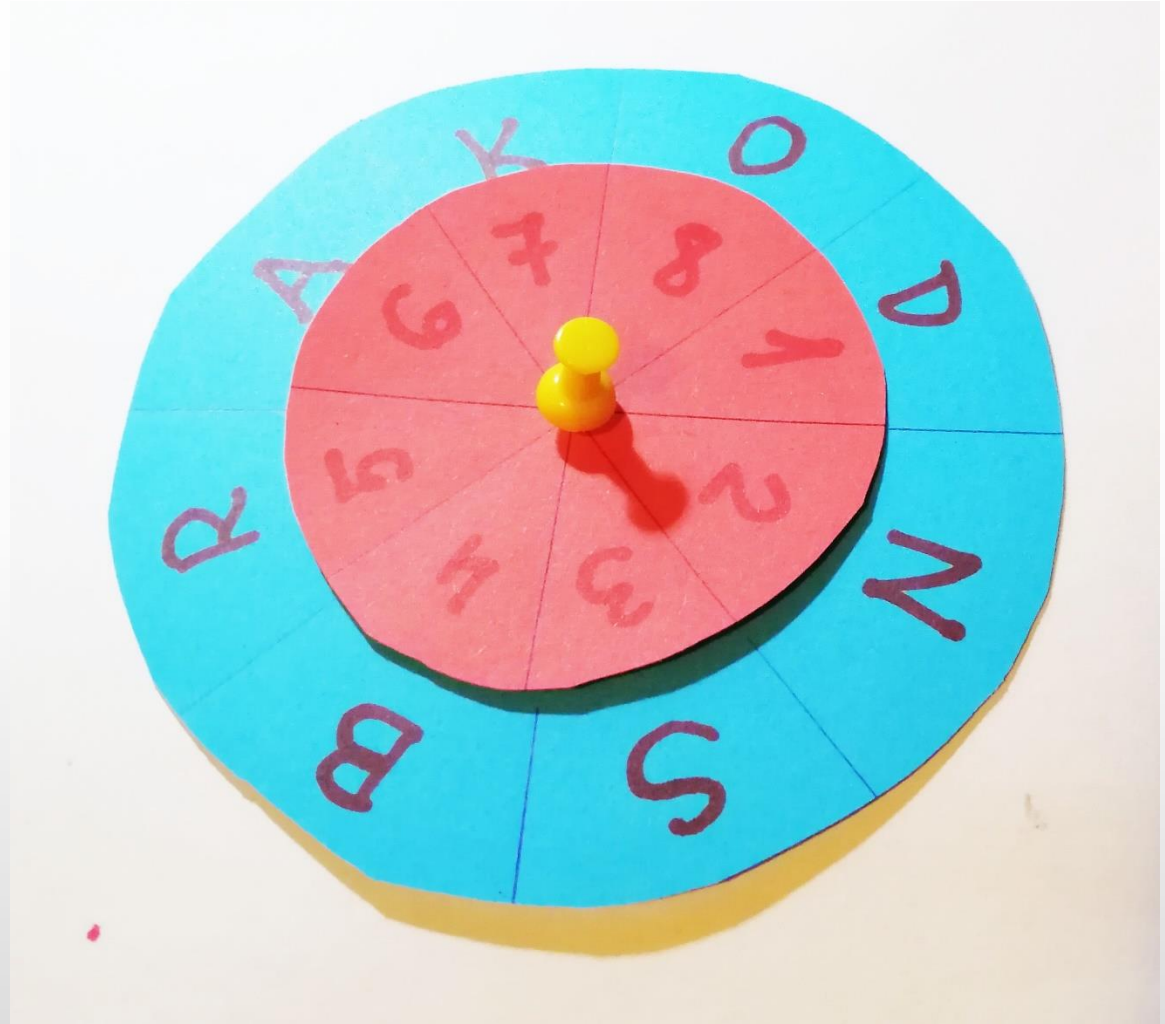


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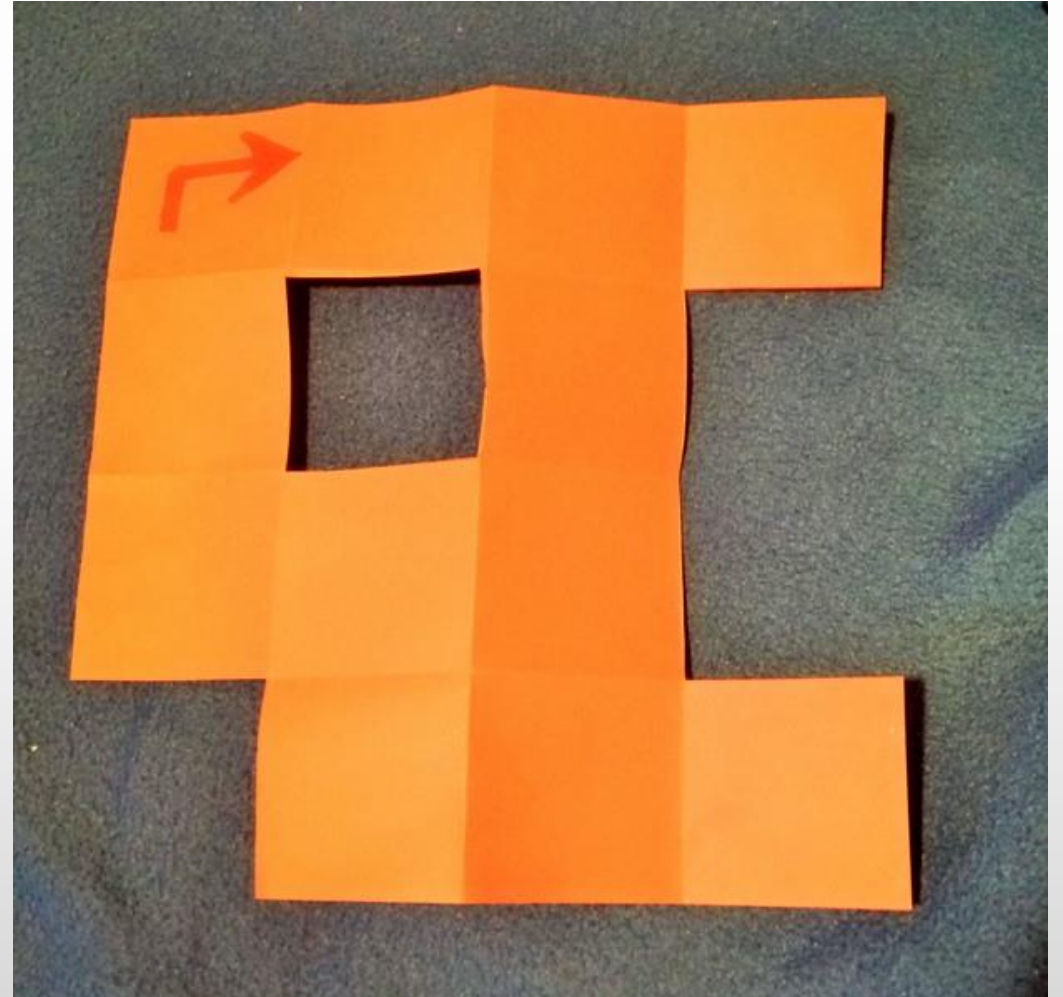
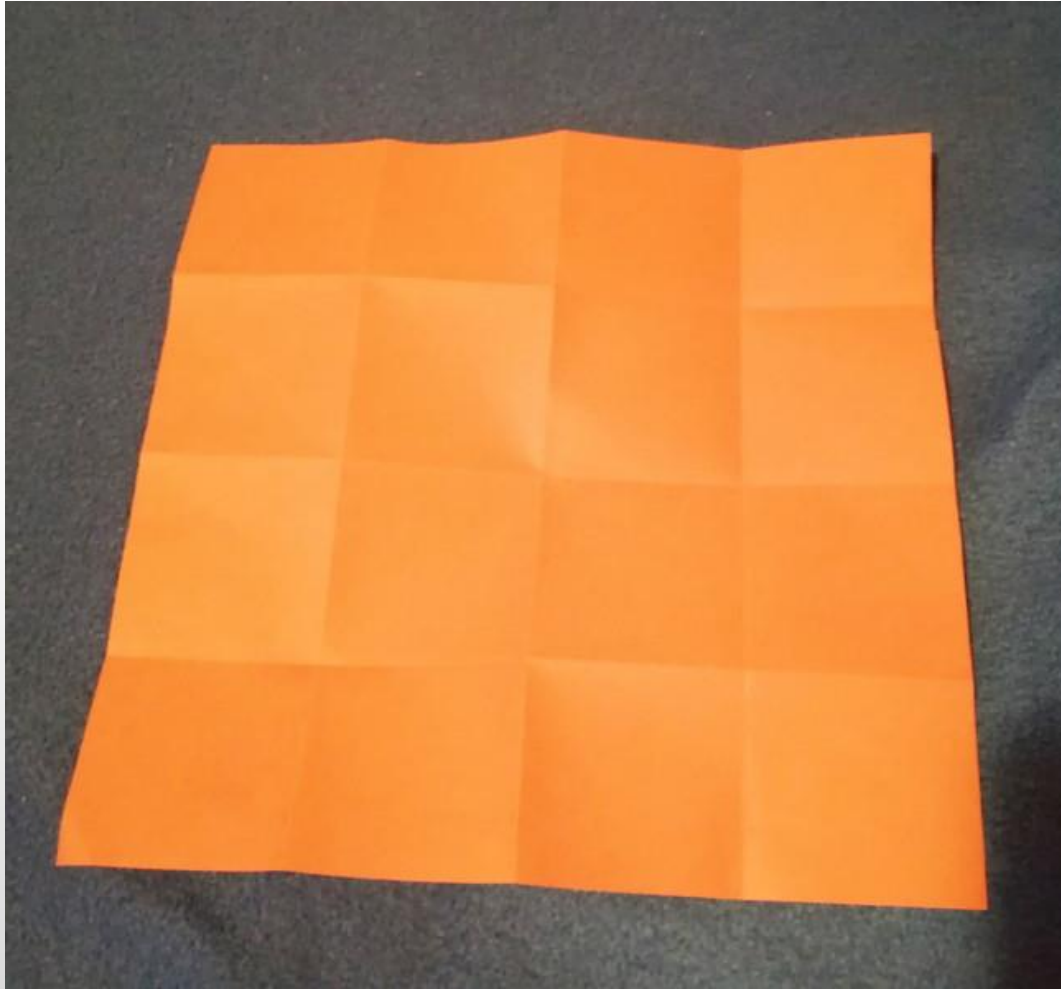
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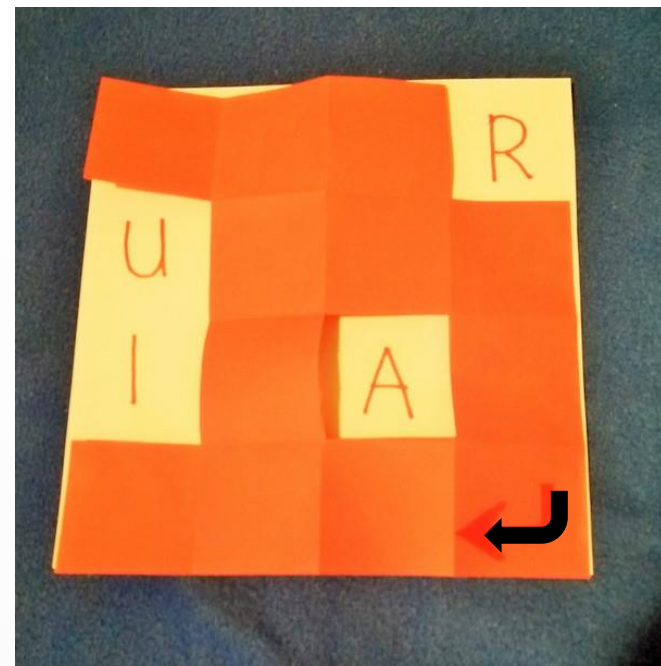
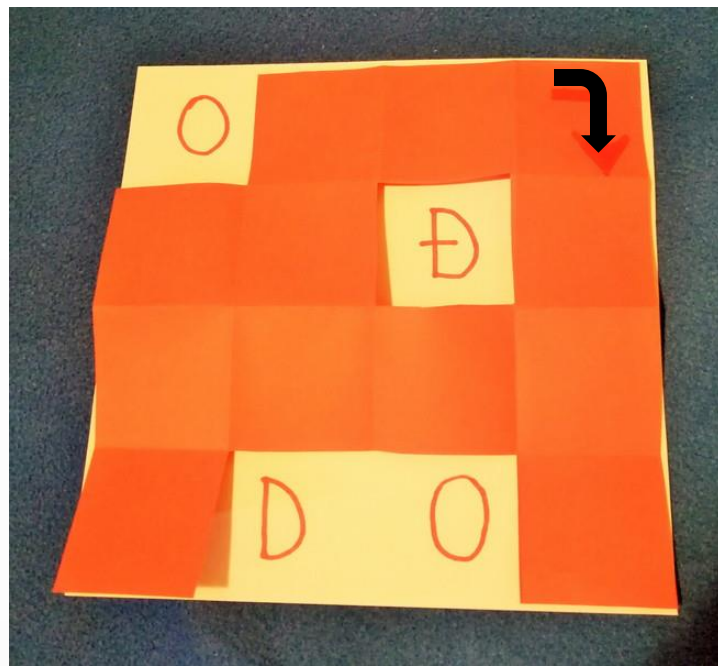
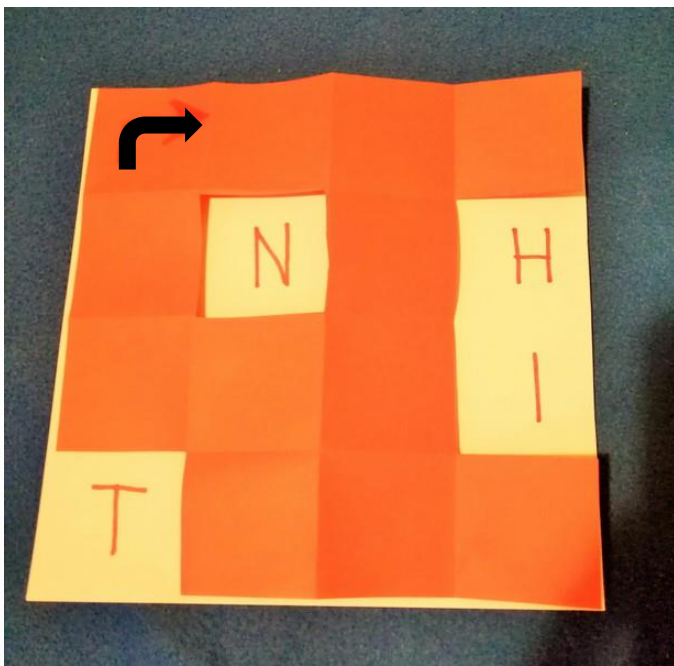
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4581 = BROD

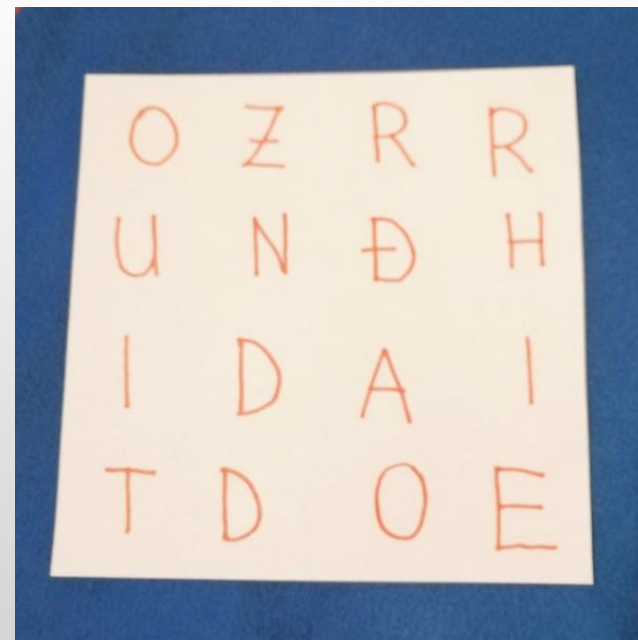


VENECIJANSKA REŠETKA

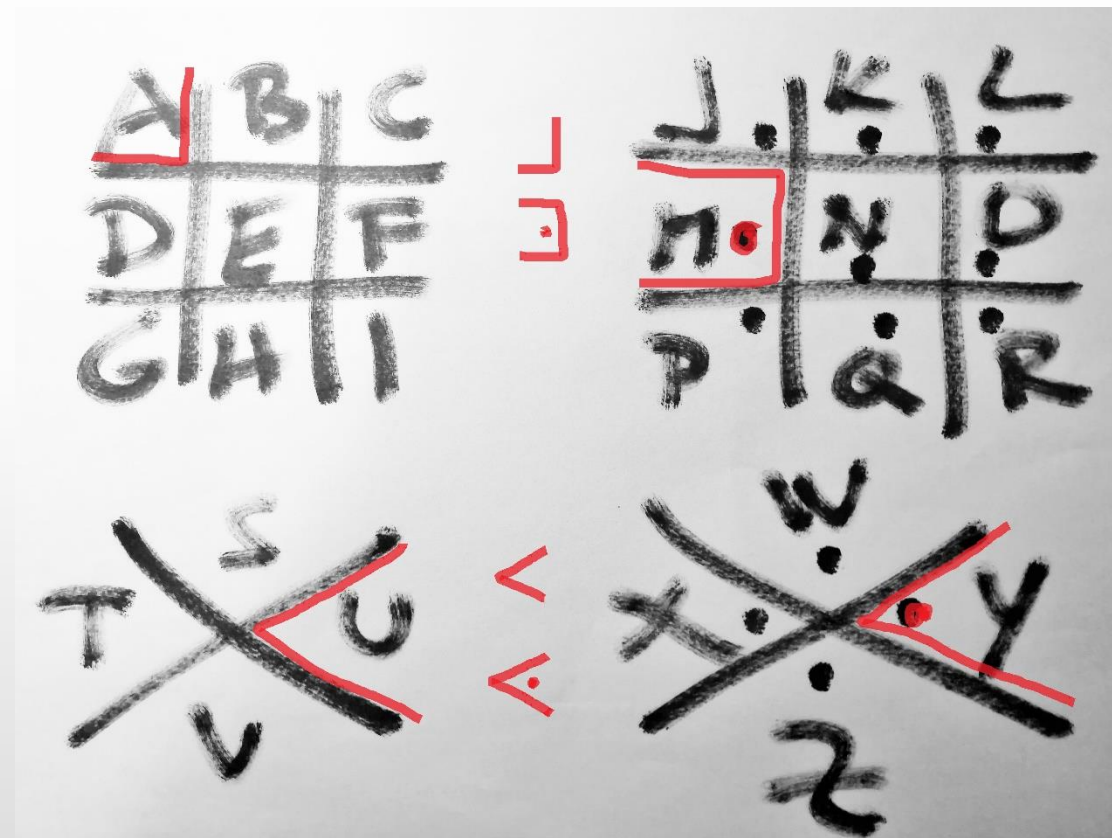
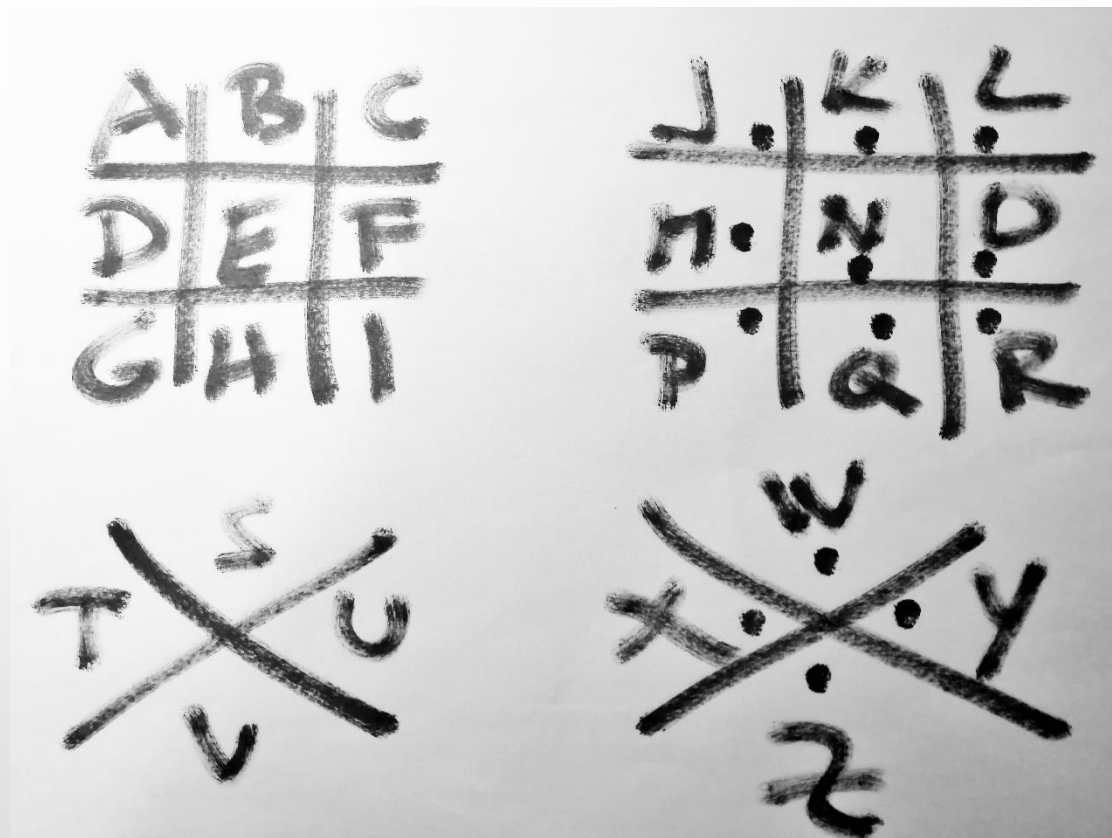


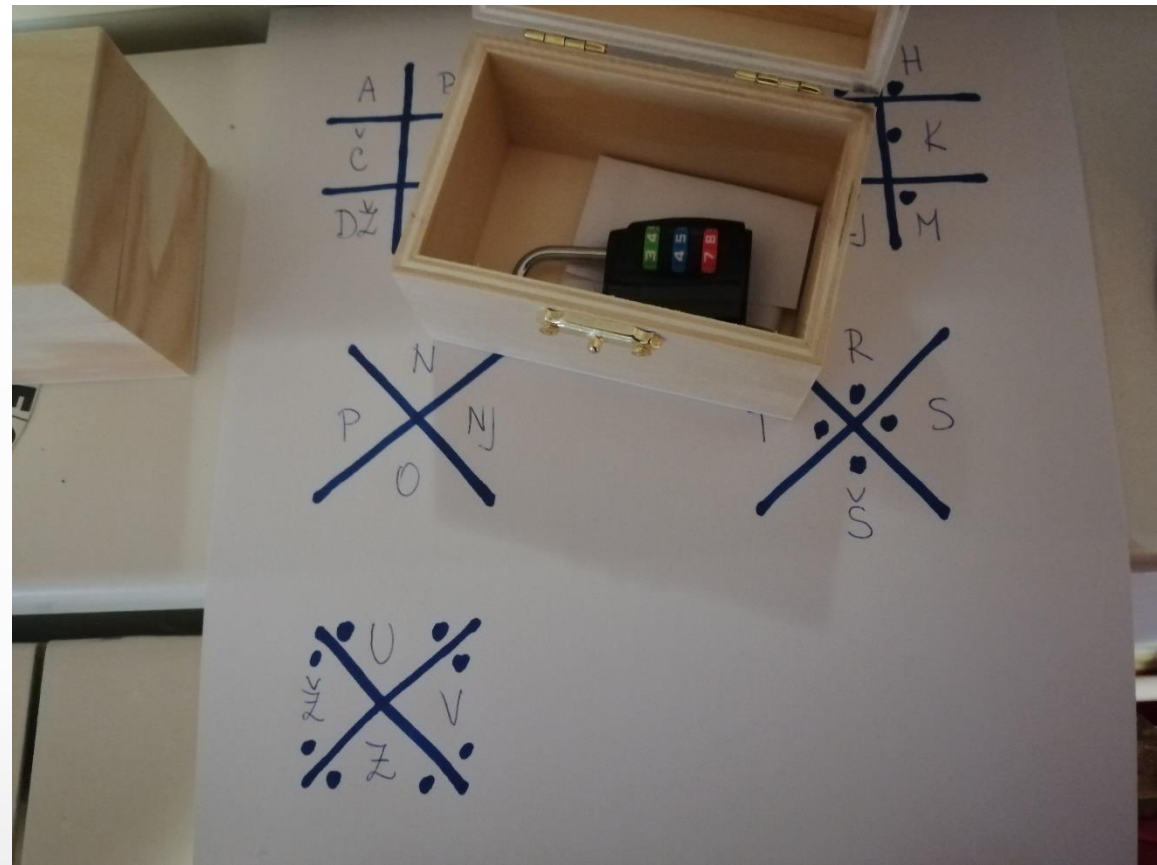
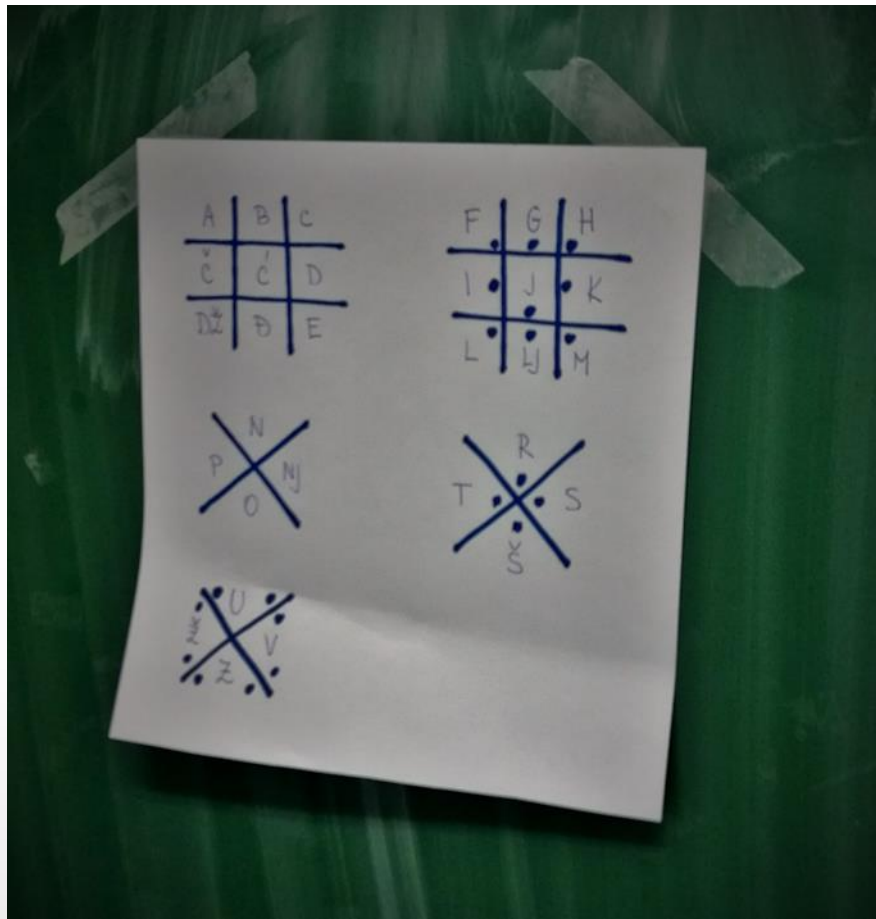


HITNO DOĐI
U RAZRED



MASONSKI KOD





Hand-drawn text in red ink on a piece of paper:

СЛАНП В ВЛАНГЕ

Hvala!

Upitnik - evaluacija

<http://bit.ly/3bAJkIt>

