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Bringing people together with Open Source

Ori Rabin
Freddy Rolland

ROSE

Red Hat Open Source Education

Exposing kids to open source and promoting coding education

Collaboration between Ra’anana and Tira

Course structure

Screening exam

Laptops with Fedora

Homework

Frontal lessons

Diversity

Culture

Gender

Language

Level of coding

Obstacles

Language barrier

Level of coding

Holidays & school work

Teenagers

Lessons learned

Pairs of students from each school

Multilanguage WhatsApp group

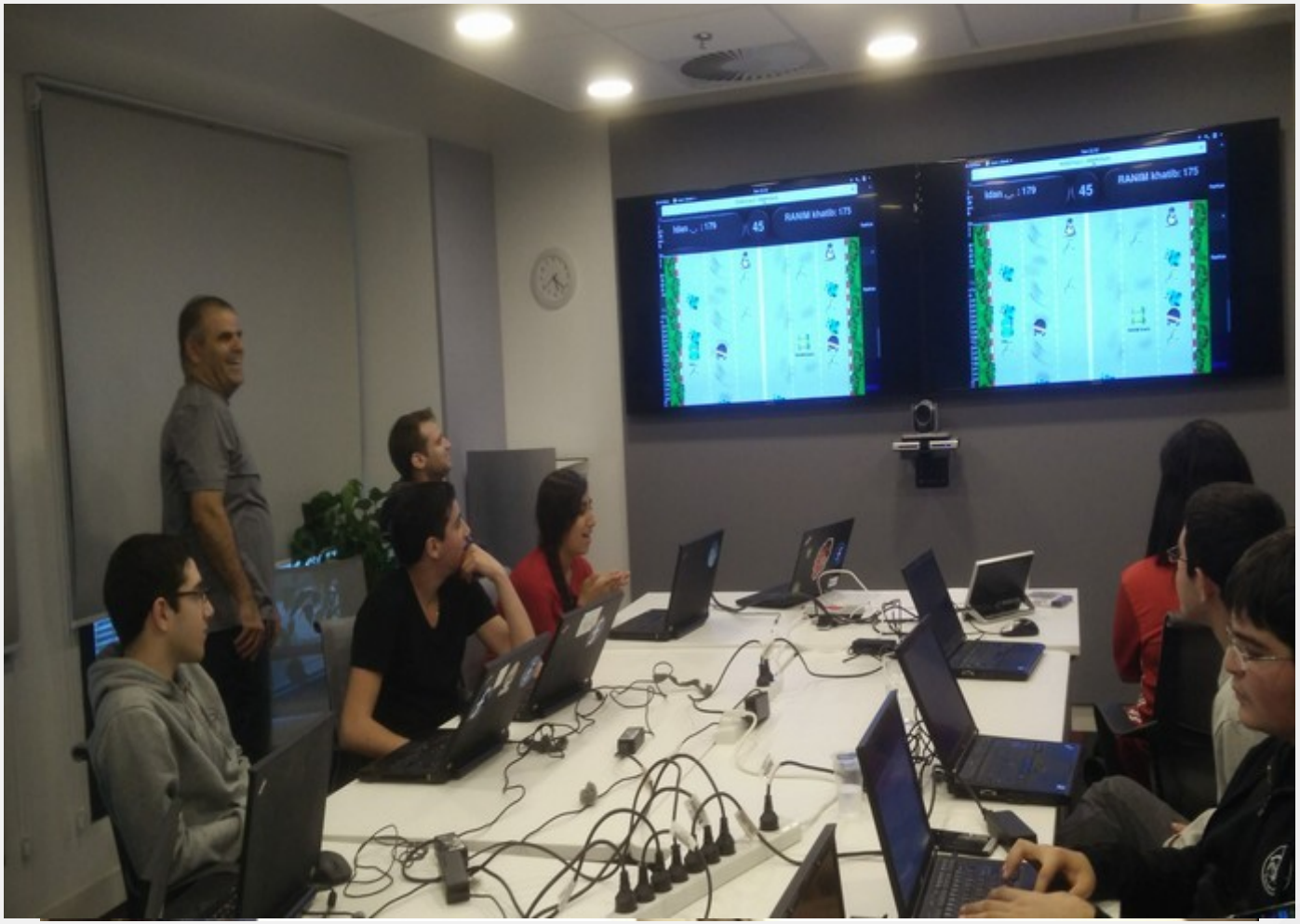
Two native Arabic speaking mentors

Competitions

Why Open Source?

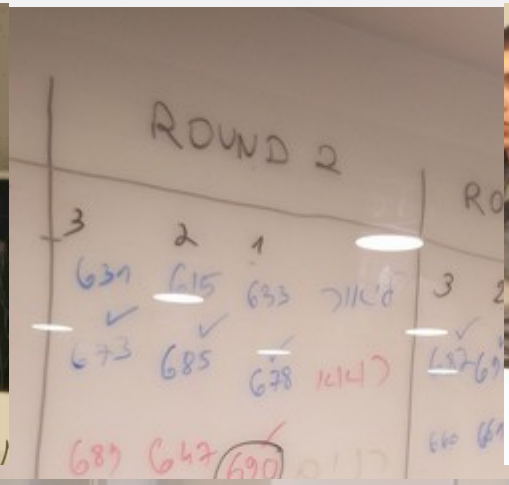
- Industry standard
- Professional skills
- Community
- Collaboration

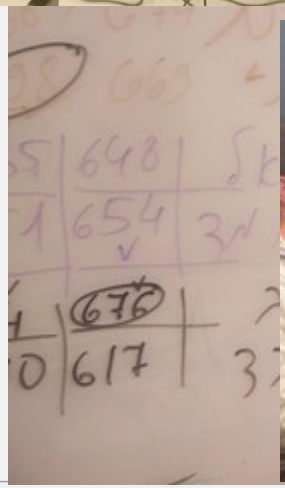
How to make it fun?

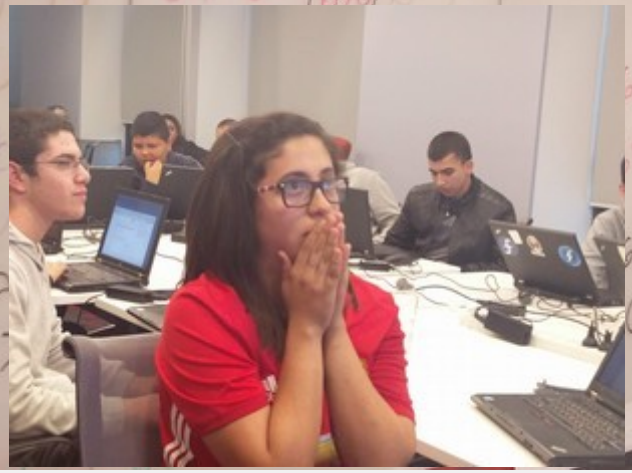


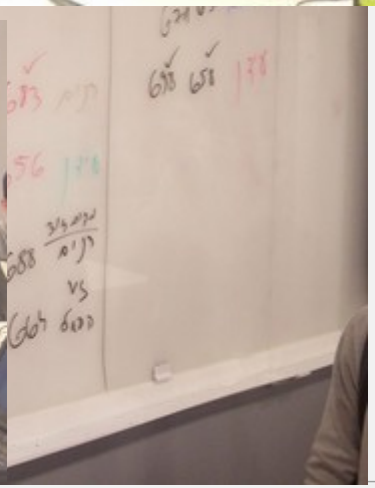
The car race

https://github.com/RedHat-Israel/ROSE









CODE SNIPPET

```
bad_stuff = (obstacles.CRACK, obstacles.TRASH,
obstacles.BIKE, obstacles.WATER, obstacles.BARRIER)
breakable_bad_stuff = (obstacles.CRACK, obstacles.WATER)

linux = obstacles.PENGUIN
pickup = actions.PICKUP
none = actions.NONE

stack = actions.NONE

def drive(world):
    action = actions.NONE
    car = world.car
    x = car.x
    y = car.y
    print "my coords are %s,%s; my stack says " % (x,y)
    checklinux(world, x, y)
    if(stack != actions.NONE):
        return stack

    if(world.get((x, y - 1)) in bad_stuff):
        chkm1 = False
        doaction = True
        try:
            world.get((x - 1, y - 1))
            chkm1 = True
        except(IndexError):
            pass
        try:
            if (world.get((x, y - 1)) in
```

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Activities
rose-client
Sun 17:17
ROSE Project - riwaa
harel: 735
00
riwaa: 688
harel
riwaa

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Collaboration

1 site manager

2 IT representatives

2 headmasters

7 code contributors

324 commits

12 kids

3 rooms

2 mayors

7 mentors

4 office managers

6 presenters

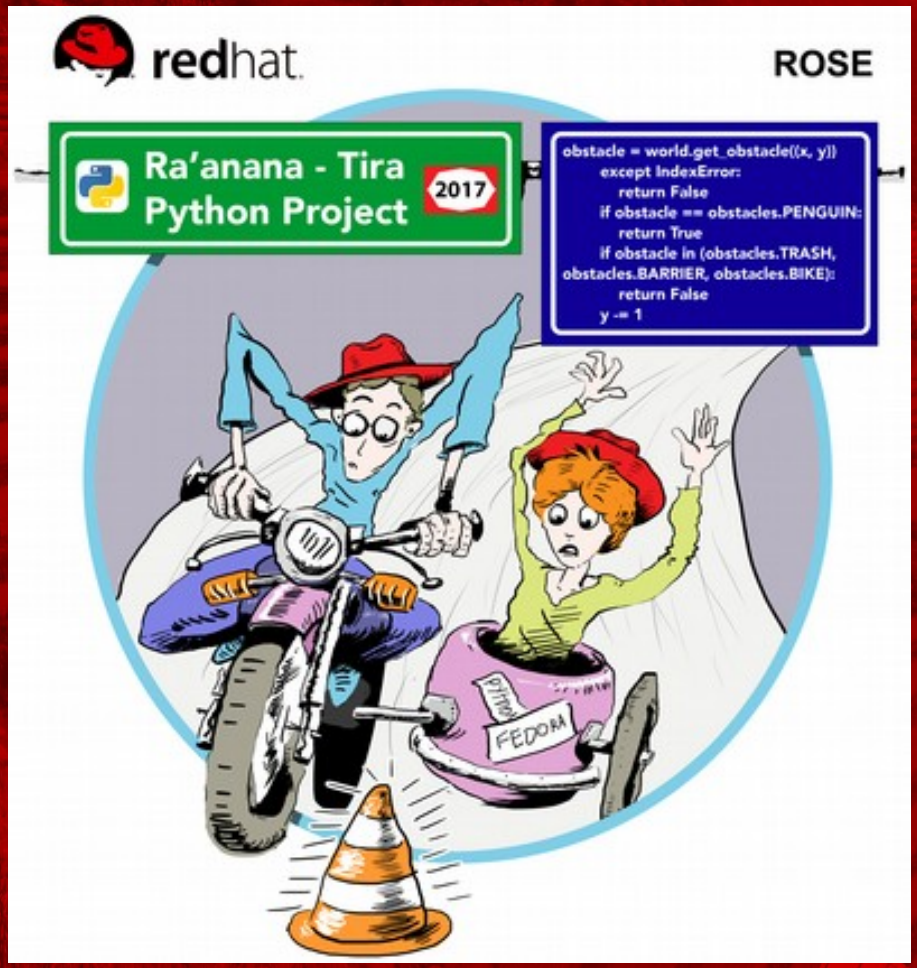
2 HR representatives

1 head of course

Links

- https://github.com/RedHat-Israel/ROSE
- https://opensource.com/education/15/9/open-source-education-israel
- https://www.redhat.com/en/explore/colab
- https://lightbot.com
- http://csunplugged.org/binary-numbers
- http://www.marshmallowchallenge.com

Q&A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ROSE
Ra'anana - Tira
Python Project
2017
obstacle = world.get_obstacle((x, y))
except IndexError:
return False
if obstacle == obstacles.PENGUIN:
return True
if obstacle in (obstacles.TRASH,
obstacles.BARRIER, obstacles.BIKE):
return False
y -= 1
FEDORA

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THANK YOU

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