



CODE YOUR
FUTURE



TÜRKİYE ULUSAL AJANSI
TURKISH NATIONAL AGENCY



Co-funded by the
Erasmus+ Programme
of the European Union

Training Programme

Introduction to programming. Creating our virtual world in VR and AR





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CAN YOU COUNT?

DAY 3

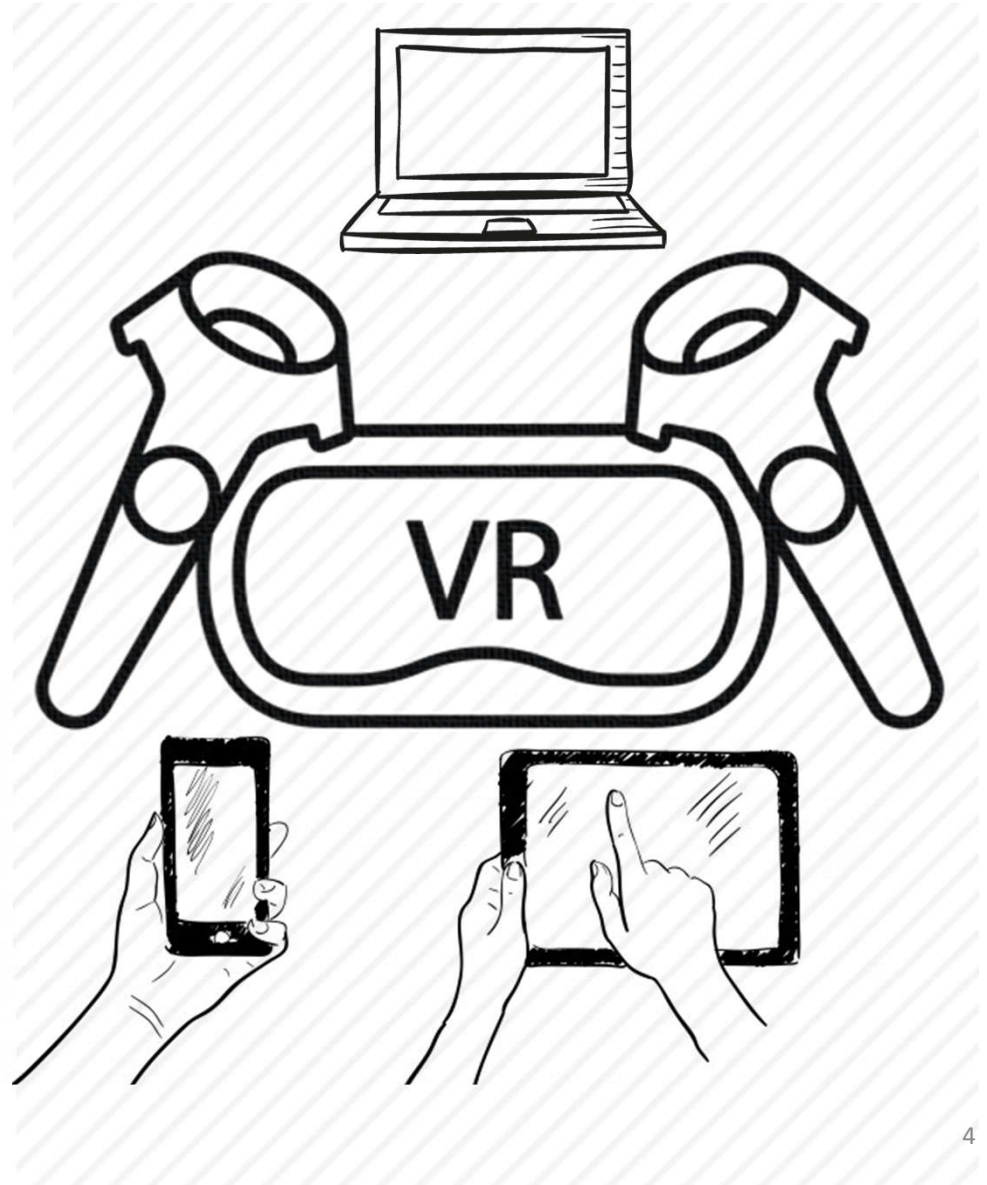


WHAT WE DID YESTERDAY?

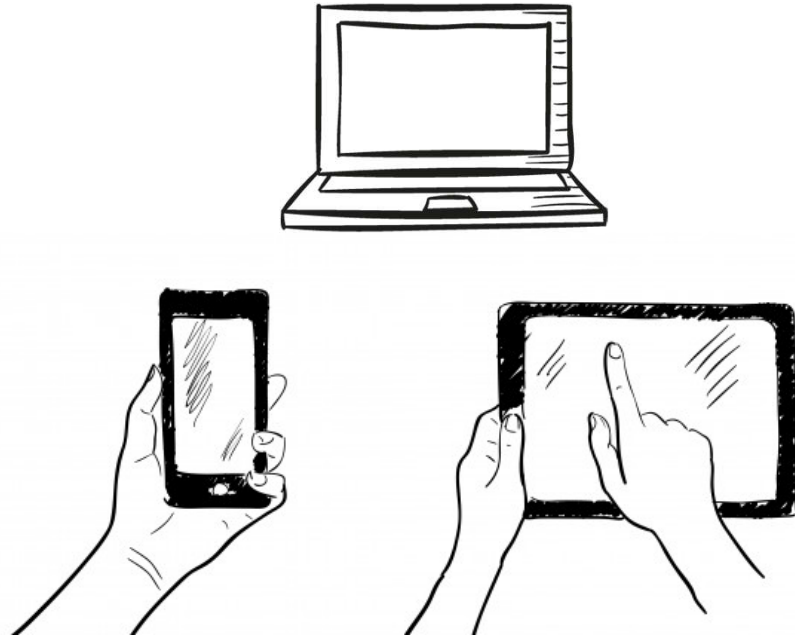
Our first virtual world



VR vs. AR Equipment and Easiness



VR vs. AR Equipment and Easiness



VR Programs for education



Earth VR

Dokon Jang Entertainment

★★★★★ 32

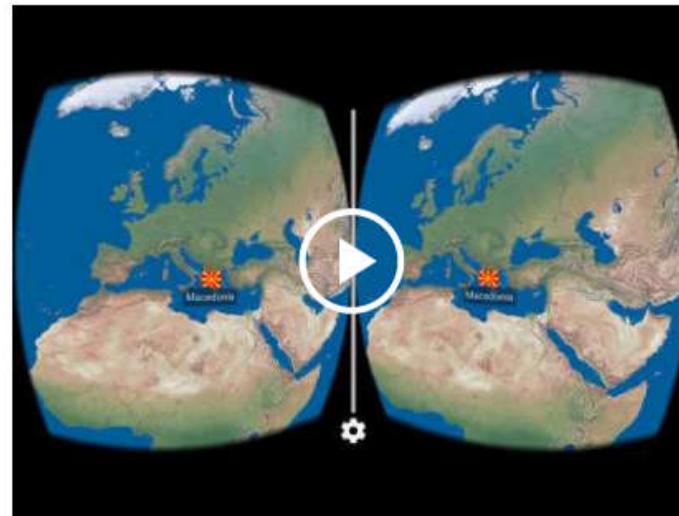
PEGI 3

Contains Ads

This app is available for all of your devices

Add to Wishlist

Install



<https://play.google.com/store/apps/details?id=com.jmsys.earthvr>
<https://www.youtube.com/watch?v=XyjUPIQQxqU&t=22s>

VR Programs for education



Earth 3D

Dokon Jang Entertainment

★★★★★ 54,102

PEGI 3

Contains Ads

This app is available for all of your devices

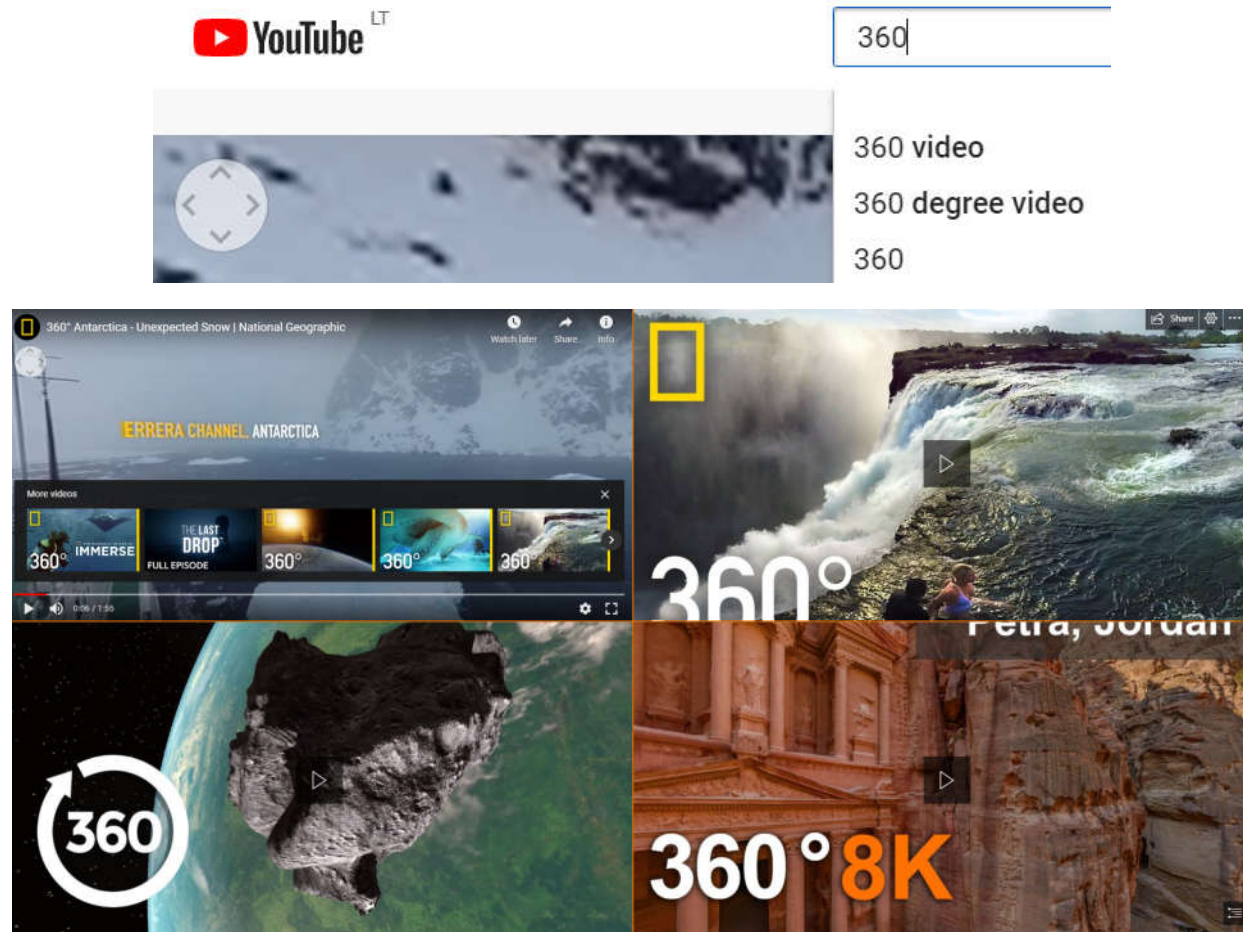
Add to Wishlist

Install



<https://play.google.com/store/apps/details?id=com.jmsys.earth3d>
<https://www.youtube.com/watch?v=lzEWT-yJ8Q8&t=7s>

VR Programs for education



<https://www.youtube.com/watch?v=XPhmpfiWEEw>

Conditionals

A statements that only run under **certain conditions**.



IF it is raining outside,
THEN bring an umbrella!

IF it is sunny outside,
THEN bring sunglasses!

Conditionals

A statements that only run under certain conditions.



IF the light is red,
THEN stop!

IF the light is green,
THEN go!

EXAMPLE
of code in
PYTHON
programming
language

[program.py](#) >

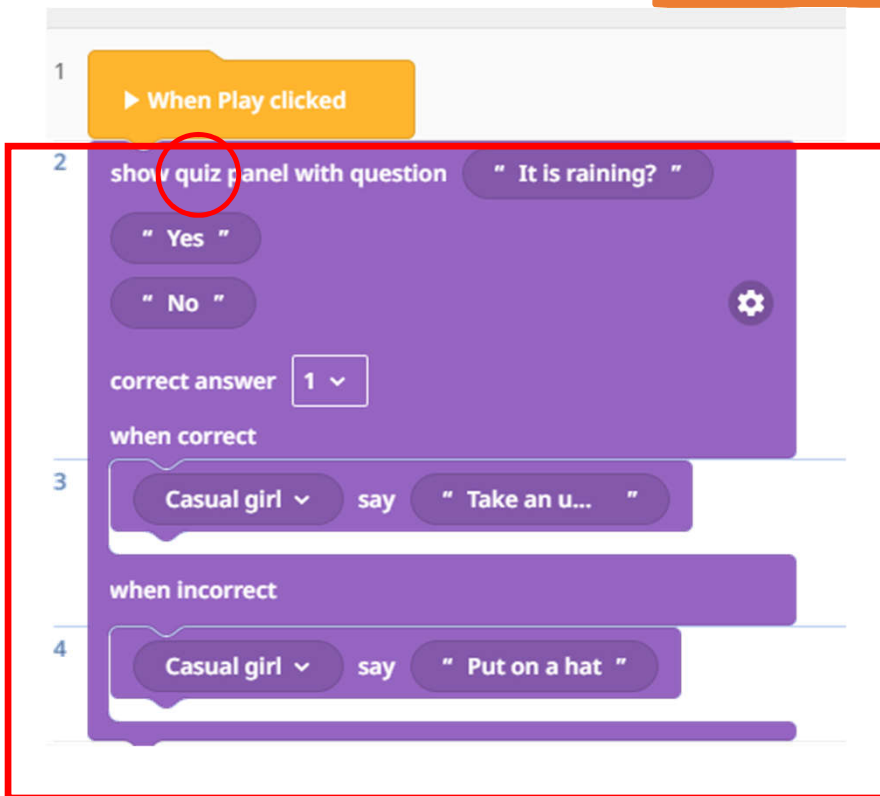
```
1 answer = input('Is it raining? ')
2 if answer == 'yes':
3     print('Take an umbrella!')
4 else:
5     print('Put on a hat!')
```

Example in CoSpaces

The image displays a Scratch script for a quiz in CoSpaces, organized into four distinct blocks:

- Block 1 (Orange):** A "When Play clicked" event block.
- Block 2 (Orange):** A "when John is clicked" block, where "John" is a dropdown menu.
- Block 3 (Purple):** A "show quiz panel with question" block containing:
 - Two answer options: "answer 1" and "answer 2".
 - A "correct answer" dropdown menu set to "1".
 - Two empty script areas labeled "when correct" and "when incorrect".
- Block 4 (Purple):** A "show choice panel with question" block containing:
 - Two "when" blocks: "when 'answer 1' selected" and "when 'answer 2' selected", each with a settings gear icon.

Example in CoSpaces



1 ▶ When Play clicked

2 show quiz panel with question " It is raining? "

" Yes "

" No "

correct answer 1 ▾

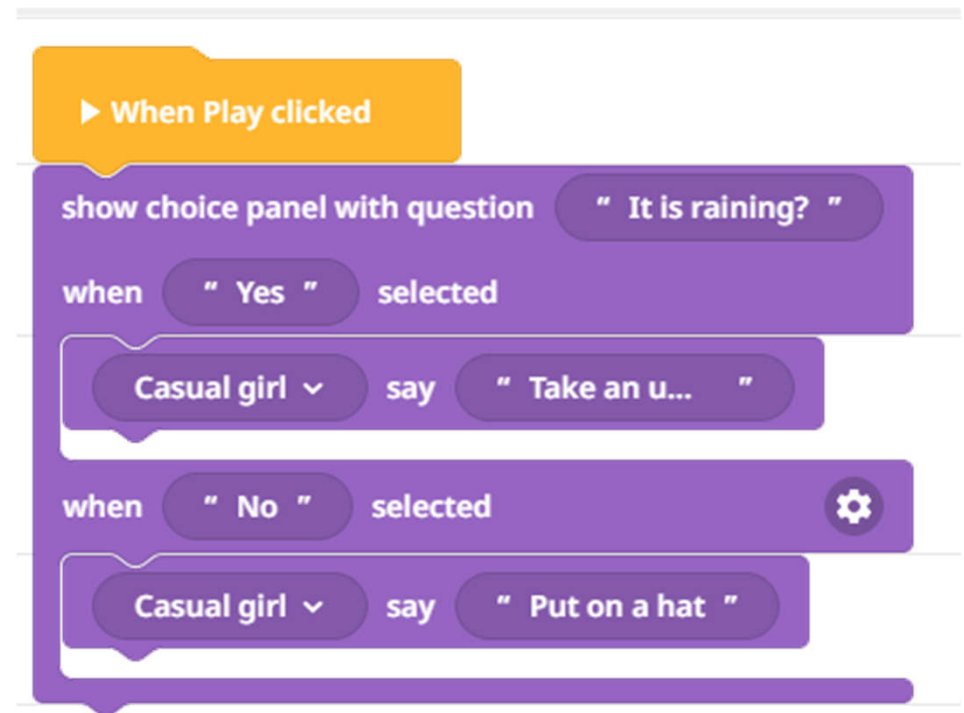
when correct

3 Casual girl ▾ say " Take an u... "

when incorrect

4 Casual girl ▾ say " Put on a hat "

Detailed description: This image shows a Scratch script for a quiz. It starts with a 'When Play clicked' event block. The main script block is 'show quiz panel with question' with the question 'It is raining?'. Below this are two choice buttons: 'Yes' and 'No'. A 'correct answer' dropdown menu is set to '1'. There are two conditional blocks: 'when correct' and 'when incorrect'. The 'when correct' block contains a 'say' block for 'Casual girl' with the text 'Take an u...'. The 'when incorrect' block contains a 'say' block for 'Casual girl' with the text 'Put on a hat'. A red box highlights the entire script area.



▶ When Play clicked

show choice panel with question " It is raining? "

when " Yes " selected

Casual girl ▾ say " Take an u... "

when " No " selected

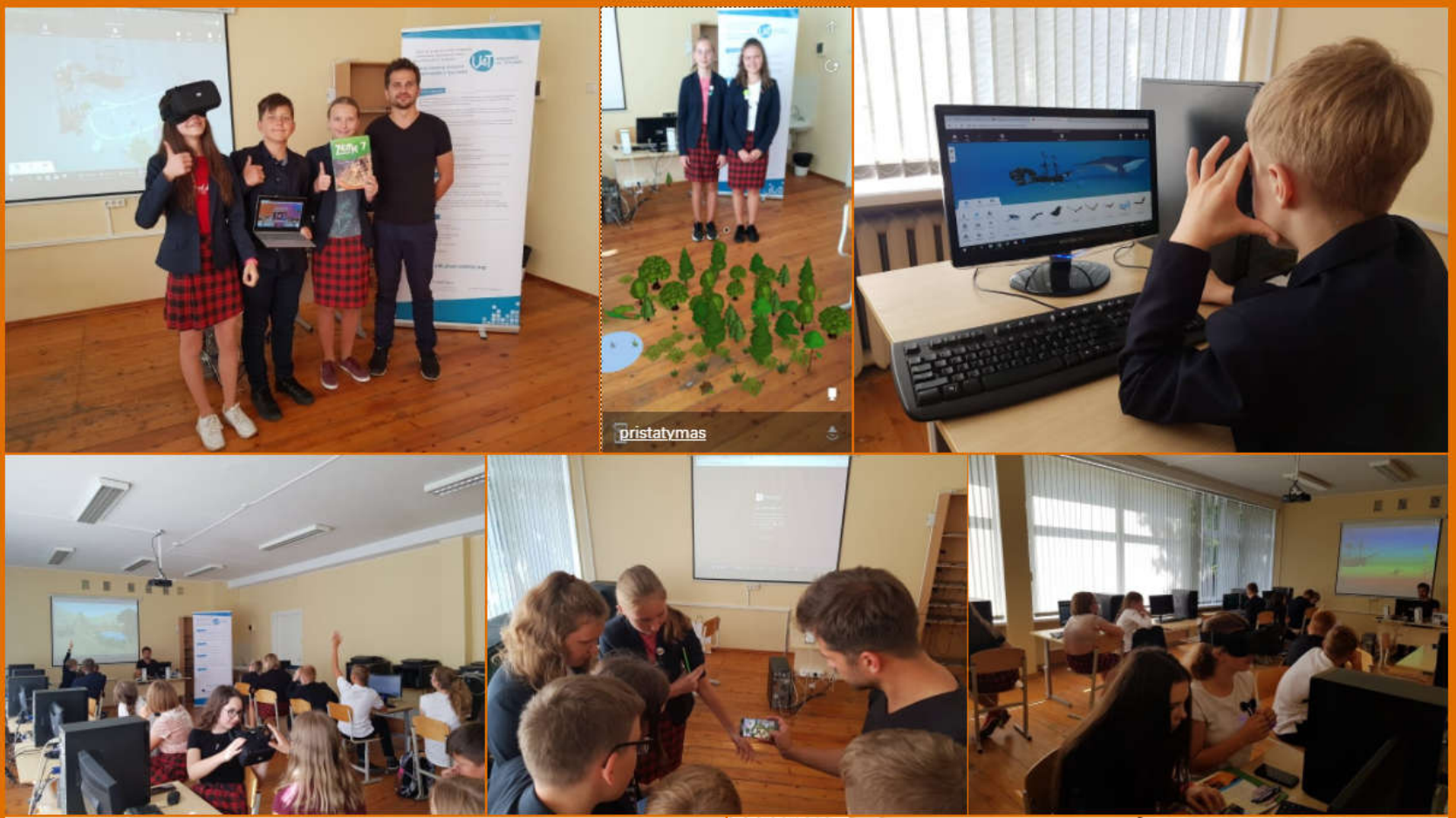
Casual girl ▾ say " Put on a hat "

Detailed description: This image shows a Scratch script for a choice panel. It starts with a 'When Play clicked' event block. The main script block is 'show choice panel with question' with the question 'It is raining?'. Below this are two conditional blocks: 'when " Yes " selected' and 'when " No " selected'. The 'when " Yes " selected' block contains a 'say' block for 'Casual girl' with the text 'Take an u...'. The 'when " No " selected' block contains a 'say' block for 'Casual girl' with the text 'Put on a hat'.




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<http://v4t.pixel-online.org/>



CoCspaces App



CoSpaces Edu

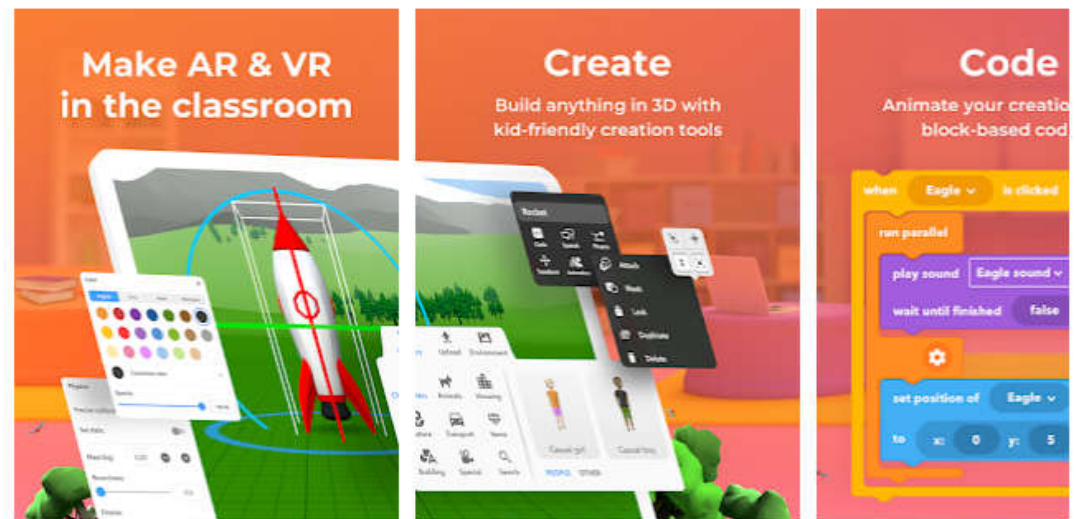
Delightex GmbH Education

★★★★★ 750

Everyone

Add to Wishlist

Install



<https://play.google.com/store/apps/details?id=delightex.cospaces.edu&hl=en&gl=US>