



18-20 October 2018 (Chania, Crete, Greece



Promoting Creativity and Digital Competences through Open Source Tools in eTwinning Projects

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Creativity is contagious, pass it on! Albert Einstein





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Creativity

 The ability to produce original and unusual ideas, or to make something new or imaginative.

https://dictionary.cambridge.org/dictionary/english/creativity

 Mental characteristic that allows a person to think outside of the box, which results in innovative or different approaches to a particular task.

http://www.businessdictionary.com/definition/creativity.html











- Ken Robinson

https://edutransformationcenter.withgoogle.com/resource/5695127876009984



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Digital Competences



https://ec.europa.eu/epale/en/blog/digital-competence-course-adults



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Cultural awareness and expression



Digital Competence is one of the 8 key competences

Digital Competence is a transversal key competence enabling us to acquire other key competences

http://files.eun.org/etwinning/EN Developing% 20pupil%20competences%20through%20eTwi nning.pdf (see p. 44)



Digital Competences

The Dig Comp Framework contains 21 competences structured according to 5 competence areas. The areas of digital competence are the following:

- 1. **Information:** Identify, locate, retrieve, store, organise and analyse digital information, judging its relevance and purpose.
- 2. **Communication:** Communicate in digital environments, share resources through online tools, link with others and collaborate through digital tools, interact with and participate in communities and networks, cross-cultural awareness.
- 3. **Content-creation:** Create and edit new content (from word processing to images and video); integrate and re elaborate previous knowledge and content; produce creative expressions, media outputs and programming; deal with and apply intellectual property rights and licences.
- 4. **Safety:** Personal protection, data protection, digital identity protection, security measures, safe and sustainable use.
- 5. **Problem-solving:** Identify digital needs and resources, make informed decisions as to which are the most appropriate digital tools according to the purpose or need, solve conceptual problems through digital means, creatively use technologies, solve technical problems, update one's own and others' competences.



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•	to 20 Ottobol 2010
Competence areas	21 Competences
1. Information	1.1 Browsing, searching, & filtering information 1.2 Evaluating Information 1.3 Storing and retrieving information
2. Communication	2.1 Interacting through technologies 2.2 Sharing information and content 2.3 Engaging in online citizenship 2.4 Collaborating through digital channels 2.5 Netiquette 2.6 Managing digital identity
3. Content creation	3.1 Developing content 3.2 Integrating and re-elaborating 3.3 Copyright and Licences 3.4 Programming
4. Safety	4.1 Protecting devices 4.2 Protecting data and digital identity 4.3 Protecting health 4.4 Protecting the environment
5. Problem solving	5.1 Solving technical problems 5.2 Expressing needs & identifying technological responses 5.3 Innovating, creating and solving using digital tools 5.4 Identifying digital competence gaps



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To summarise



Digital Competence

Digital competence is the set of knowledge, skills, attitudes

> that are required when using ICT, digital media and tools

to perform tasks; solve problems; communicate; manage information; collaborate; create and share content; and build knowledge

> for work, leisure, participation, learning, socialising, consuming & empowerment

Learning domains

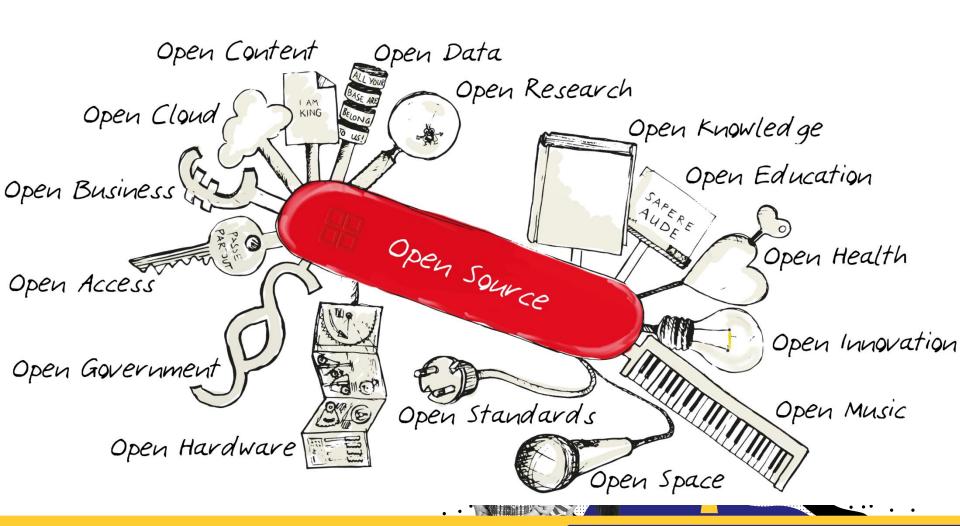
Tools

Competence areas

Purpose



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Anyone is freely licensed to use, copy, study, and change the software in any way, and the source code is openly shared so that people are encouraged to voluntarily improve the design of the software.











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340 Software packages

https://edu.ellak.gr/edu_fos/







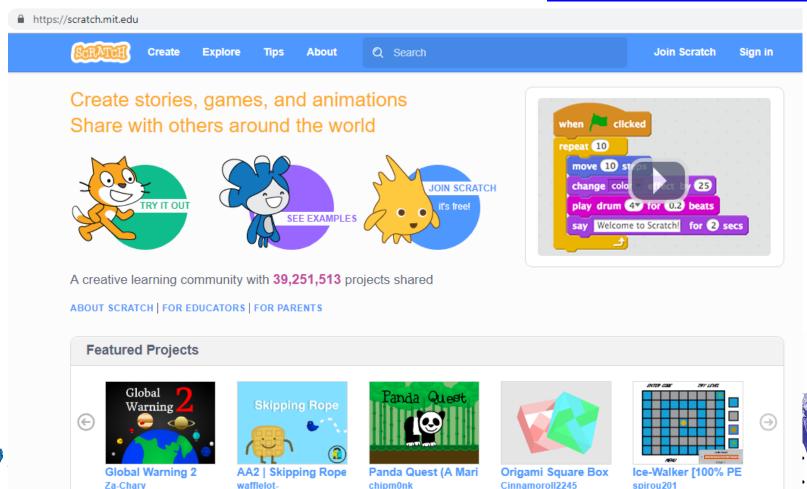






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https://scratch.mit.edu/









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http://appinventor.mit.edu/explore/ MIT App Inventor

Design and program fully functional apps and run them on any Android phone!









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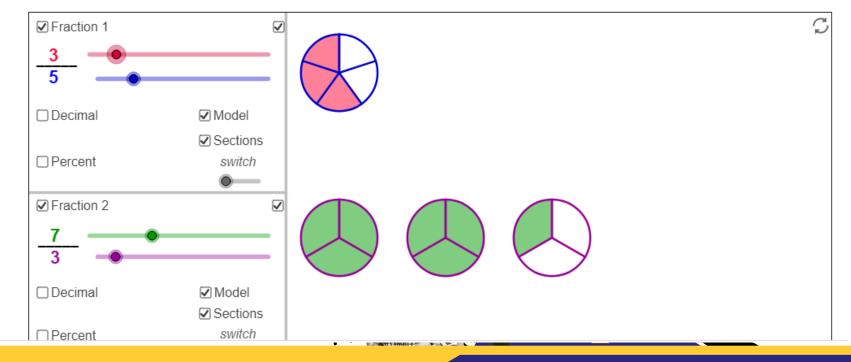
https://www.geogebra.org/m/TwChgRWB

https://www.geogebra.org/



Area Models for Improper Fractions – 2 Fractions

Author: EDC in Maine







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https://www.gimp.org/



3 & Open Source Image Editor

fficial website of the GNU Image Manipulation MP).

oss-platform image editor available for OS X, Windows and more operating systems. It is o you can change its source code and distribute

Recent News

GIMP receives a \$100K donation 2018-08-30

GIMP 2.10.6 Released 2018-08-19







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https://inkscape.org/

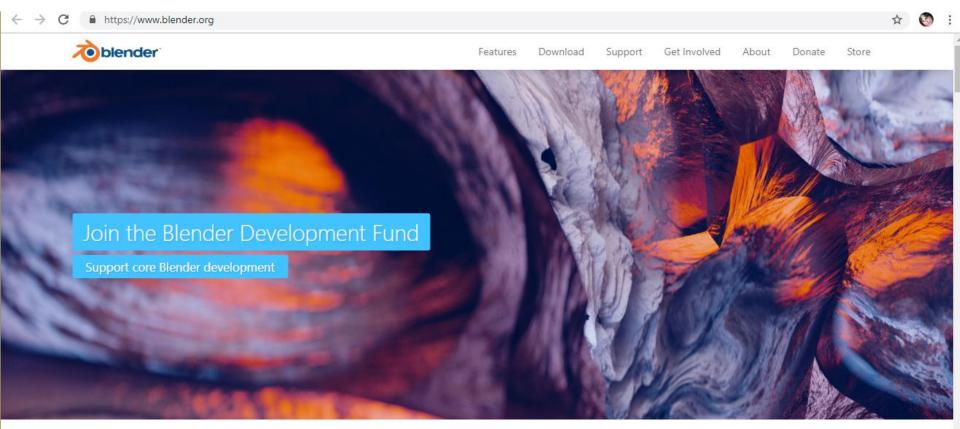




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https://www.blender.org/



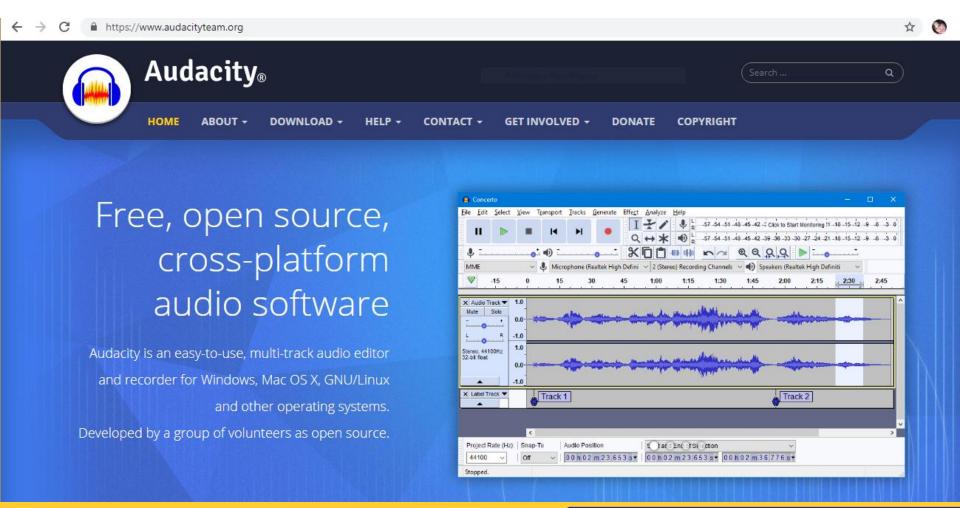
Open Source 3D creation. Free to use for any purpose, forever.

Download Blender 2.79b



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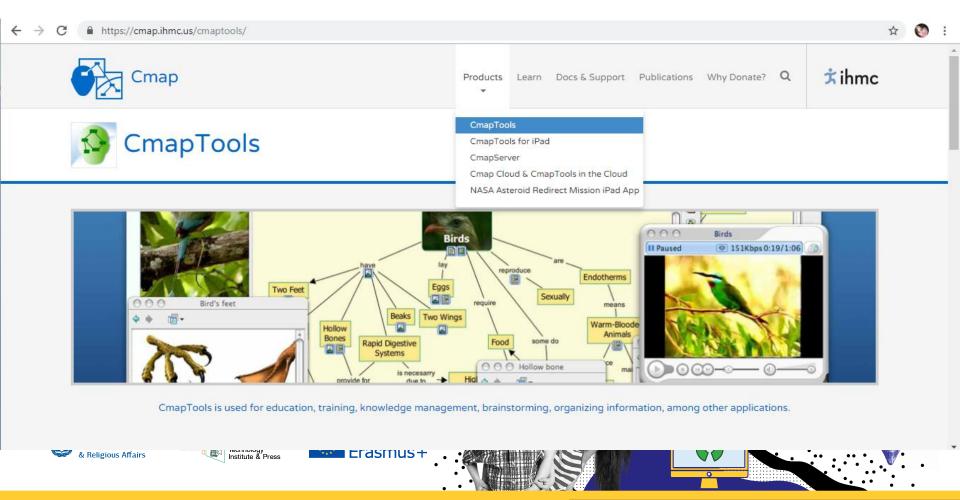
https://www.audacityteam.org/





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https://cmap.ihmc.us/cmaptools/

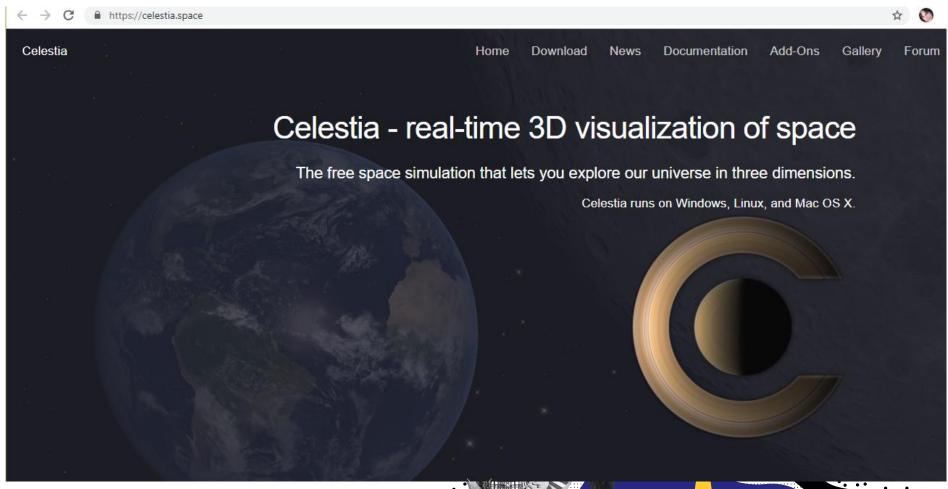




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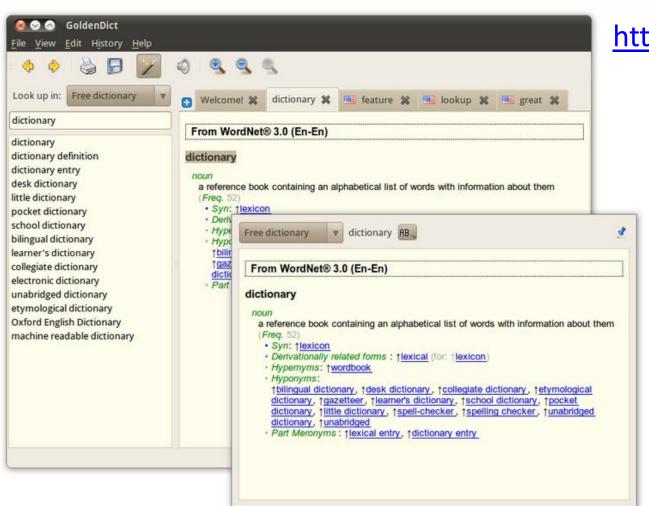


https://celestia.space/





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http://goldendict.org/

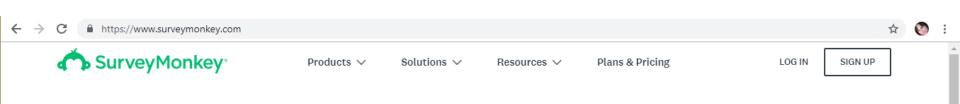




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https://www.surveymonkey.com/



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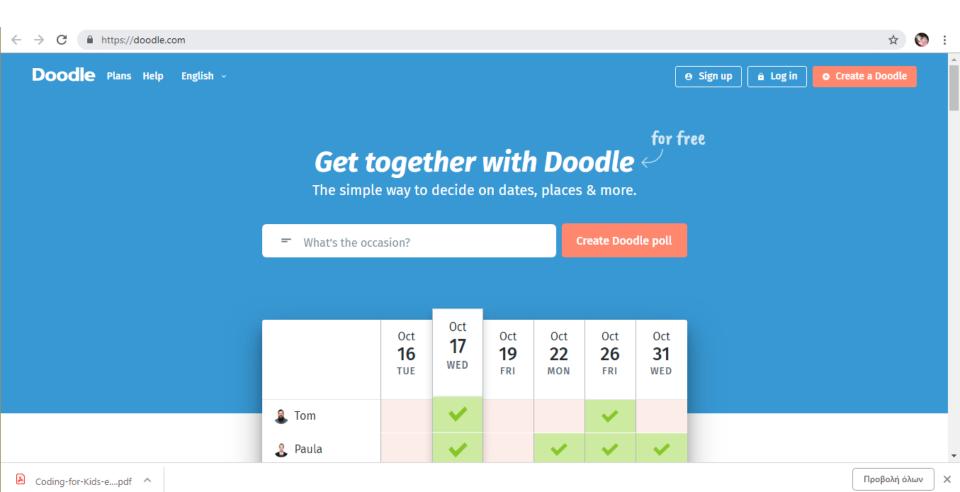




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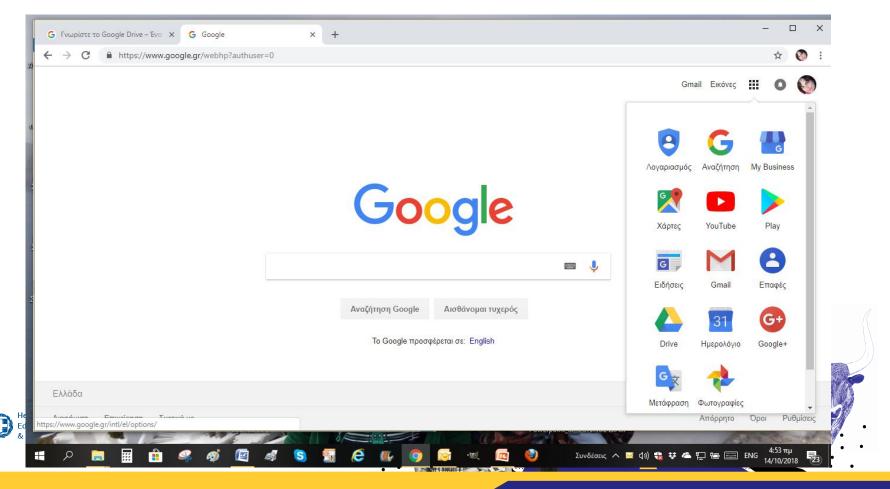
https://doodle.com/





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https://docs.google.com/





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https://codeweek.eu/



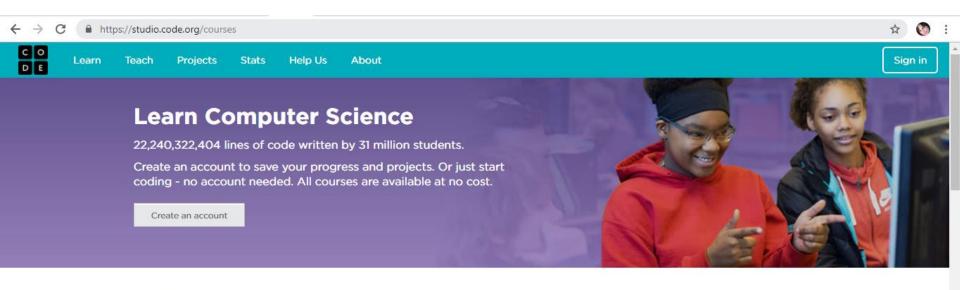




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https://code.org/



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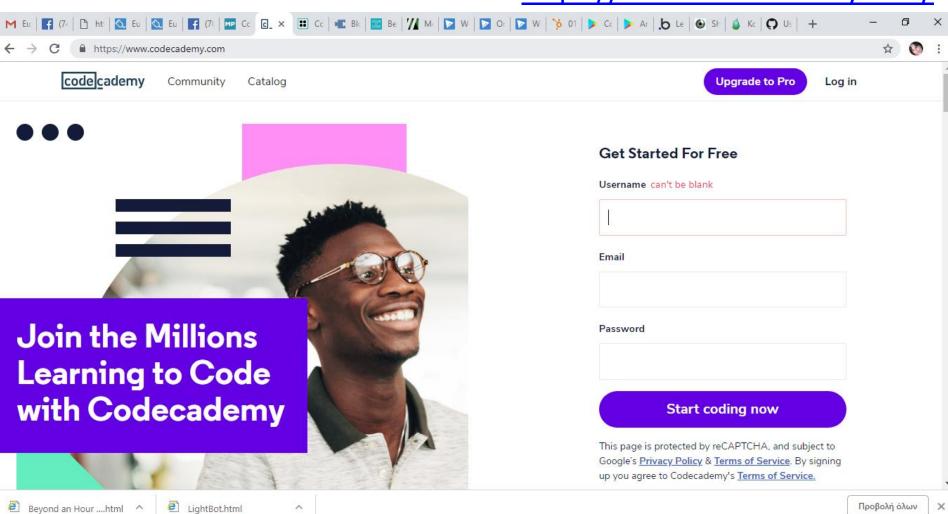
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https://www.codecademy.com/





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https://www.w3schools.com/



HTML Tutorial

HTML Tag Reference



CSS Tutorial

CSS Reference











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https://www.khanacademy.org/

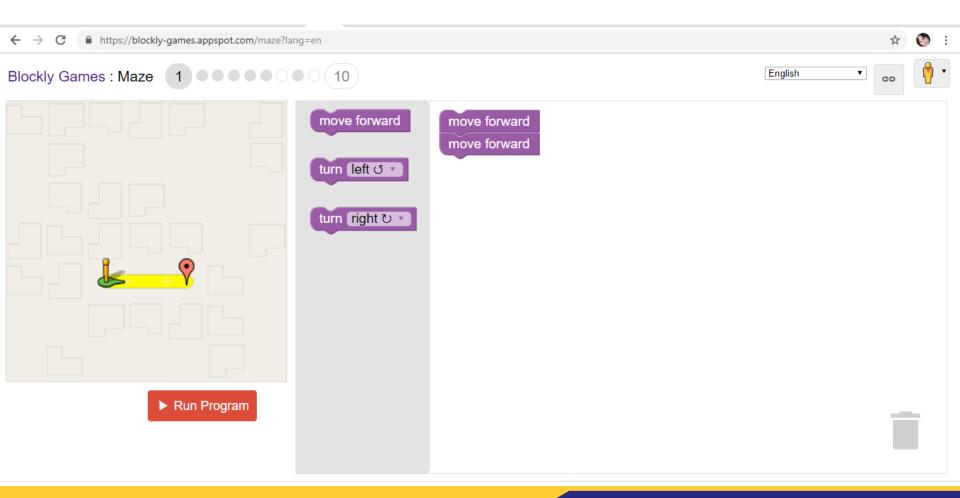






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https://blockly-games.appspot.com/





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http://lightbot.com/hour-of-code.html





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https://www.codesters.com/



The easy way to teach coding at your school





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https://www.kodugamelab.com/



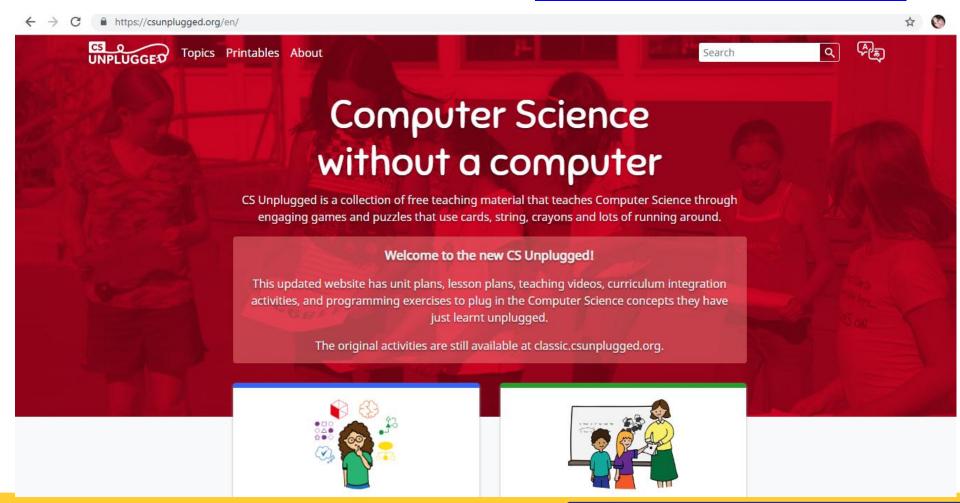






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https://csunplugged.org/en/





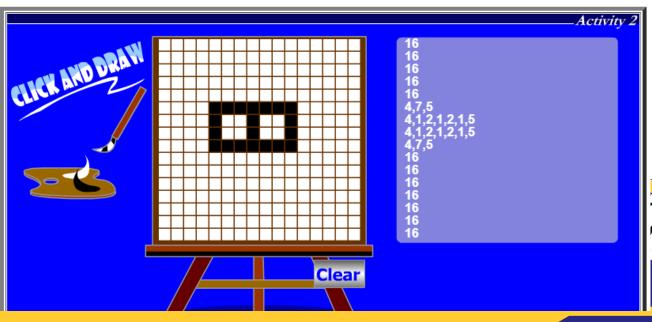
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http://info-study.net/

ホーム > アンプラグド > Activity2



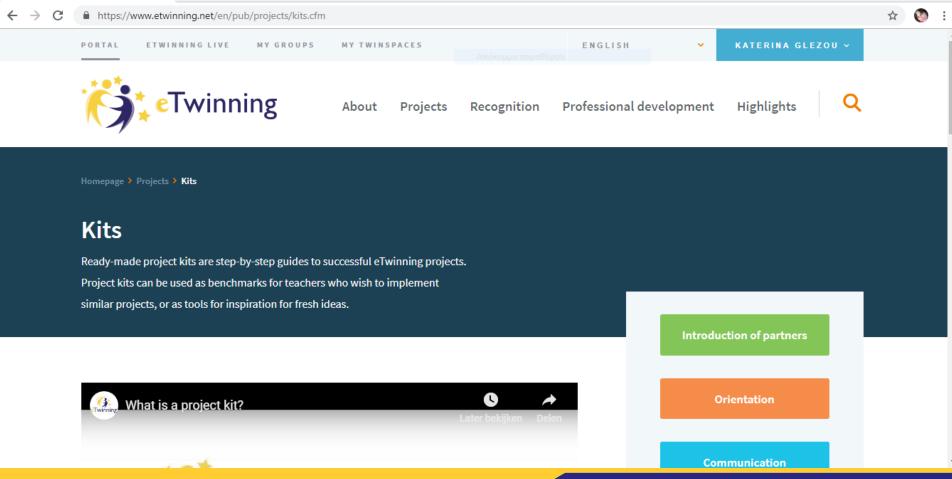






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https://www.etwinning.net/en/pub/projects/kits.cfm





Thank you for your attention! Create, Code, Collaborate & Have fun!

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