

Computer Science built with teens in mind

Computer science courses for ages 9+

Used by educators with no coding

experience

- Web-based. No downloads required
- Highly visual & rigourous

function(){



All online

 Over 150 coding tutorials (self-guided learning)

 Research-backed for learning outcomes Widcode Challenge: Sandbox

SAVE DRAFT SUBMIT

Instructions 1/1 -

Sandbox!

Welcome! This is the sandbox. In here, you can play around with everything that you've learned so far.

Mix, match, experiment, play, but most important:

Have Fun and Be Awesome! :D

EFFECTS	REFERENC
Filters	
blur	bw
noise	vignette
exposure	tint
invert	grayscale
pixelate	kaleidoscop
motion	flip-

```
1 let circles1 = [];
 2 let circles2 = [];
 3 let COUNT = 30;
 4 let SPACING = 25;
 5 let THICKNESS = 40;
 6
   function map(num, in min, in max,
   out min, out max){
                                               x: 370, y: 280;
 8
     return (num - in min) *
   (out max - out min) / (in max -
                                                BACKGROUNDS
   in min) + out min;
 9 }
                                                          AUDIO
10
11 function hsv2rgb(h,s,v)
                                                  Upload
                                               >
12 {
                                                  File
                                               Record from Webcam
13
     let f = (n, k = (n+h/60) \%) \implies v = v
   v*s*Math.max( Math.min(k,4-k,1),
   0);
14
     return
                                                            vid 2020
   [f(5)*255,f(3)*255,f(1)*255];
                                                            0407 00
                                                  website
                                                           0744.mp
                                                .png
15 }
16
                                                            screen-
17 background("white");
                                                           shot-
                                                           2019-09
18
                                                            18-at-
                                                  white-
                                                           3.24.32-
19 for(let i=0;i<COUNT;i++) {</pre>
                                                🖪 logo.png
                                                          pm.png
20
     circles1.push(circle(width/3,
                  Clear on code change
 Console
                                       Clear
                                                  screen-
 This is the console! Try it with the log()
                                                  shot-
                                                  2019-06-
 function: write log("hello"); in your code.
```

* 0 /

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to.jpg

GRAPHICS

Intro - Start with the basics (Computer Science 101)

Ages 9 & up



Tutorial 1 of 150: introduces text based programming, Hex colors and values.

Intermediate - Code video games (Computer Science 301)

Ages 11 & up



Tutorial 40 of 150: covers physics, random & geometry to build custom games.

Advanced - Simulations (Computer Science 601)

Ages 13 & up



Tutorial 100 of 150: covers sliders, data & movable objects.

Unique portfolios











12,000 teachers choose Vidcode for their STEM classes







Full & Half Year Courses

Aligned to CS standards by design - core concepts are baked in! Vidcode courses are rated #1 for alignment to both US and UK computer science standards K-12. Vidcode courses are reseach-backed and vetted by thousands of educators.











CROSS- CURRICULAR CODING	INTRO TO JAVASCRIPT	COMPUTER SCIENCE WITH JAVASCRIPT	Launching September
Beginner Upper Elementary & Middle School 3 Units	Beginner Upper Elementary & Middle School 4 Units	Intermediate High School 6 Units	Beginner Upper Elementary & Middle School 4 Units

Mini-Courses

DIGITAL CITIZENSHIP

Beginner

Middle School

5 Activities

GAME DEVELOPMENT

Intermediate

Middle & High School

Launching August

HARDWARE + JAVASCRIPT

Beginner

Middle School

5 Activities

Launching September HTML + CSS Beginner Middle & High School 6 Activities



FERPA, COPPA, HIPAA Compliant



Student Privacy Pledge Signatory

1. Upload your **own** content

2. Make it interactive with code



LINK TO VIDEO

Research: During School



20% increase

in students' computer science learning outcomes, after 10 hours



Research: During School



- Students' understanding of CS concepts improved, and teachers felt students could apply what they learned in other programming contexts.
- Vidcode was highly engaging to students, and appealed to girls as much as it did to boys.
- Vidcode was successful in reaching students who might not have otherwise tried coding.
- 88% of students say they enjoy studying computer science using Vidcode.

Research: After School



- vid**code** Semester-long after-school program
- Combines film-making and code
- Students code PSAs on topics they choose



Research: After School

Impact		new knowledge. _{org}
Survey Questions	Before	After
Confidence in their coding abilities	37%	89%
Identify as programmers	42%	89%
Thought of themselves as "technology people"	58%	79 %

Projects are multi-disciplinary

// A sample video for your Black History Month resea 1 2 3 movie = stopmotion(); 4 movie.frames = ["Mae-jemison.jpg", "Mae_Jemison_in_S 5 6 movie.interval = 800; 7 8 9 var box = rect(0,300,movie.width,100,"black","clear" 10 11 var title = text("Dr. Mae Jemison, Astronaut",40); 12 title.font = "Oswald"; 13 title.y = 300;Dr. Mae Jemison, Astronaut 14 title.color = "pink";

Math



https://www.vidcode.com/share/HitShYT06C

New Languages



https://www.vidcode.com/share/UWX29xzFyU

Science



https://www.vidcode.com/share/70qK6BnTDG

ELA



https://www.vidcode.com/share/FGE0aSwKpO

History



Collaboration: English + Art Class

Students worked together to code postcards from the 1930s representing places in Arthur Ransome's *Swallows and Amazons*



The Vidcode curriculum is aligned by design to Global CS **Standards**

and we've got the awards to prove it









Global Curriculum Alignment

By the Education Alliance of Finland, Summer 2019

EDUCATION ALLIANCE FINLAND CERTIFIED 2019

Vidcode

Education Alliance Finland uses a method based on educational psychology and Finnish pedagogical knowledge to evaluate the quality of learning solutions. This EAF certified product is a well designed educational solution that aligns with learning science principles. Its design complies with research on learning and pedagogy and pursues to implement good practices in order to promote and support learning.

THE Valo

Olli Vallo | CEO Helsinki, Finland



Results Curriculum Alignment – How many learning goals the product supports

Rank	Name	Total	UK CURRICULUM - Computing	CSTA K-12 Computer Science Standards
1.	Vidcode	38	13	25
2.	Anonymous	32	10	22
3.	Anonymous	31	21	10
4.	Anonymous	22	12	10
5.	Anonymous	21	10	11
	Anonymous	21	13	8
7.	Anonymous	19	10	9
8.	Anonymous	12	7	5
	Anonymous	12	6	6
10.	Anonymous	9	2	7

Companies included in August 2019 study:

Education Alliance Finland X 2019

Bomberbot
Codemao
CodeMonkey
CodeSpark
Coding Galaxy
Dystopia 2153
Hetao 101
Kodable
School of Fish
Vidcode

What Teachers Say...



66 Vidcode is so young and vibrant. It gives students a sense of ownership. Vidcode is wonderfully visual and students don't get left behind.

- Ms. Cary, Teacher, United Kingdom

What Students Say...



 You can get crazy and creative, and I've enjoyed it so much.
 Being able to think "what do I want to code today," and be able to see it come alive.

- Elisa, Mayfield High School Student



"I can't say enough positive things about this online learning environment. The interactive lessons allowed students to create their own programs and see the results right away.

The support provided by the Vidcode team was outstanding.

I just think there is so much junk out there - that when one comes across such a wonderful tool for learning object oriented programming - one should shout it from the rooftops!"

Suzanna McGee

Computer Science Teacher, Notre Dame High School

"As the projects become more complex, the lessons cover all the basics of object-oriented programming, from simple linear programming to complex object properties with user interactions, creating games and simulations. Programming is taught through interactive tasks, requiring minimal parental or teacher preparation and oversight, and teens are encouraged to add their own style and sense of humor to the projects they create."



- Emily Crawford, ©2020 Parents' Choice

Professional Development Resources

- Self-led virtual educator course
- 1-3 day virtual and in-person professional development sessions
- Live-chat and support line for teachers

Email info@vidcode.com to request PDF details of the above





Vidcode, online computer science courses built with teens in mind.

Sign up your school or district at vidcode.com