

WELCOME

1

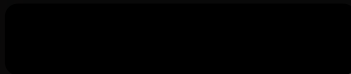
Introduction

2

Learning Outcomes

3

And Many More ...





Hack Club: Empowering Teenagers in STEM

Hack Club is a global nonprofit network supporting high school coding clubs through learning resources and mentorship. Founded in 2014 by Zach Latta, Hack Club has grown to include over 500 clubs and 40,000 students worldwide.



SHIVANG AYUSH

of XIIth Science

[Recently promoted!]

Hack Club's Impact

Coding Skills

Hack Club has a global presence, with clubs in over 500 high schools across the world. This network provides a platform for teenagers to connect, learn, and collaborate on coding projects. Because coding is essential in today's world.

Community Building

Hack Club fosters a sense of community among its members, encouraging collaboration, mentorship, and peer learning. This supportive environment helps teenagers develop their coding skills and explore their interests.





Creativity and Problem-Solving

1

Real-World Projects

Students work on innovative projects.

2

Inspiring Innovation

Encourages creative solutions.

3

Critical Thinking

Enhances problem-solving abilities.

Hack Club nurtures creativity and problem-solving. Students develop innovative solutions through project work. This enhances critical thinking and prepares them for future challenges.

A person with dark hair, wearing a dark hoodie, is sitting at a desk in a dimly lit room. They are looking intently at a laptop screen which displays lines of code. The room is filled with tall bookshelves packed with books, creating a library-like atmosphere. The lighting is low, with a cool blue and purple hue, and a small red light is visible on a shelf in the background.

Hack Club's Impact on Education

STEM Education


Hack Club plays a vital role in promoting STEM education by providing teenagers with access to coding resources, mentorship, and opportunities to explore their interests.

Skill Development

Hack Club's programs help teenagers develop valuable coding skills, problem-solving abilities, and teamwork skills, preparing them for future careers in STEM fields.

Innovation and Creativity

Hack Club encourages innovation and creativity by providing a platform for teenagers to experiment with new technologies, build projects, and share their ideas.



Hack Club's Impact on the Tech Industry

1

Future Talent Pipeline

Hack Club is nurturing the next generation of tech talent by providing teenagers with the skills, knowledge, and experience they need to succeed in the tech industry.

2

Innovation and Entrepreneurship

Hack Club encourages innovation and entrepreneurship by providing teenagers with opportunities to build projects, solve problems, and develop their ideas.

3

Diversity and Inclusion

Hack Club is committed to creating a diverse and inclusive community, ensuring that all teenagers have access to opportunities in STEM, regardless of their background.



Supportive Tech Community

Knowledge Sharing

Students share their knowledge.

Collaboration

Promotes collaborative projects.

A supportive tech community builds confidence and encourages collaboration. Students network with peers and share ideas. Hack Club fosters an inclusive environment for learning.

Preparing for Future Careers



Essential Skills

Coding skills are highly valued.



Career Opportunities

Opens doors to modern jobs.



Excellent Starting Point

Provides a foundation for success.

Hack Club prepares students for future careers. It provides essential skills that are valued in modern jobs. It offers an excellent starting point for technical education.



How Hack Club Does?



Philanthropic Grants

Hack Club receives funding from philanthropic organizations that support STEM education and youth development. These grants help Hack Club expand its programs and reach more students.



Individual Donations

Hack Club also relies on donations from individuals who believe in its mission to empower teenagers in STEM. These donations provide crucial support for Hack Club's operations.



Corporate Partnerships

Hack Club has partnered with companies like GitHub, Arduino, and Adafruit to provide resources and support to its members. These partnerships help Hack Club expand its reach and impact.

Notable Hack Club Programs

1

APEX

A collaboration with GitHub, Adafruit, and Arduino, developing and deploying the tech and creative projects to send them in the space from Shanghai, China to Space.

2

Scrapyard

Scrapyard is a hackathon with a "scrappy" theme of stupid inventions! Being held at Austin, Texas – March 1-2 & 100+ Cities worldwide – March 15-16, this year.

3

High Seas

Since its launch, High Seas has seen significant participation, with over 5,200 teens logging more than 11,000 hours of coding.

4

Epoch

A global high schooler-led hackathon in Delhi NCR, this event brings together hundreds of teenagers to inspire and empower the community of student hackers.





Hack Club Workshops

1

Personal Websites

Learn HTML, CSS, and JavaScript.

2

Game Development

Create games using P5.js and Python.

3

Hardware Integration

Use Arduino and Raspberry Pi.

4

Machine Learning

Basics for beginners.

Interactive coding tutorials guide students in building projects. The workshops cover personal websites, game development, and hardware integration. Machine learning basics are also introduced.

Key Takeaways

500

Clubs

Hack Club supports over 500 high school coding clubs worldwide.

40,000

Students

Hack Club has reached over 40,000 students globally.

\$500,000

Donation

Elon Musk and the Musk Foundation donated \$500,000 to Hack Club in 2020.



Steps to Implement Hack Club

1

School Approval

2

Faculty Advisor

3

Recruit Students

4

And, All Set!

Implementing Hack Club involves several key steps. First, get approval from the school administration. Second, identify a faculty advisor to provide guidance. Third, recruit interested students to form the club.

What does Hack Club offers?...

*TOOLBOX





Atal Innovation Mission {AIM}

1

Atal Tinkering Labs (ATL):

These are state-of-the-art spaces established in schools for students from grades 6 to 12. ATLs are equipped with tools and technologies such as 3D printers, robotics kits, Internet of Things (IoT) devices, and more, encouraging creativity and innovation among young minds.

2

Atal Community Innovation Centres (ACIC):

ACICs aim to promote the benefits of technology-led innovation to underserved regions of India, including tier 2 and tier 3 cities, as well as tribal and rural areas.

3

Atal New India Challenges (ANIC):

This program seeks to identify and support innovations that address sectoral challenges of national importance and societal relevance. Selected startups receive funding and mentorship to develop their solutions.



#ISRO's

YUVIKA

2025

Mine Initiation ? ...





BUILD STUPID STUFF, GET STUPID PRIZES

100+ Cities worldwide March 15-16 | Austin, TX March 1-2

HACK CLUB





Hi, I'm **Shivang Ayush**

Technical Enthusiast & Daily Learner



Grab your phone

&

Scan It !!!



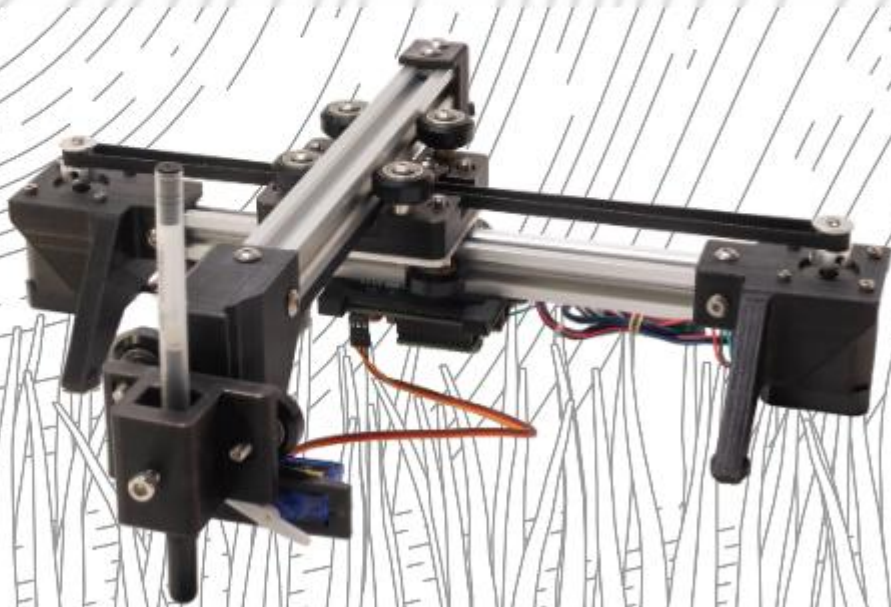
My Portfolio Website

Blot, the plotter bot

from Hack Club

Program generative art in javascript. Draw it on a machine by Hack Club
Blot is no longer an active You Ship, We Ship (YSWS) program at Hack Club. Get it from [High Seas](#) instead!

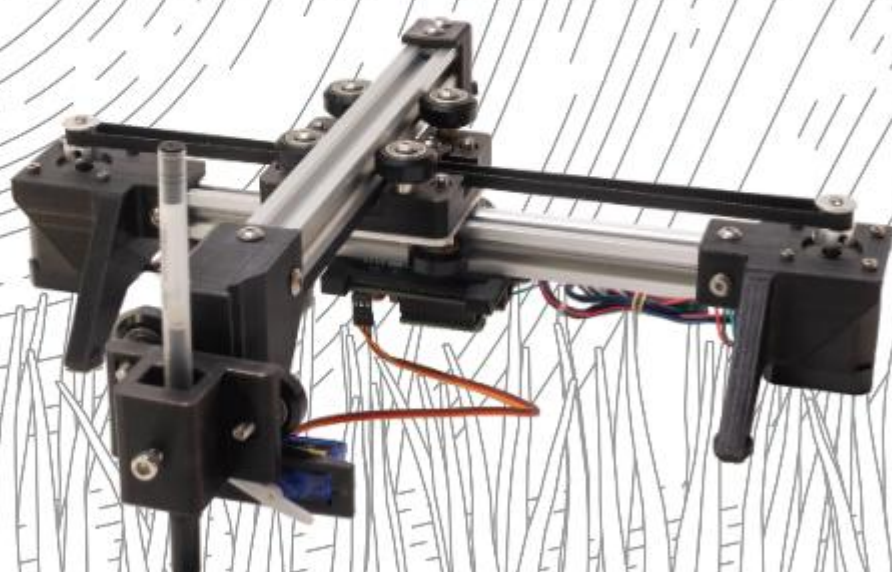
Get started making art!



A small, black, custom-built plotter bot is shown in the center of the image. It has a horizontal metal rail with two black motorized carriages. A pen is mounted on the left carriage, and it is in the process of drawing a field of tall, thin, white grass-like lines on a white background. The background is filled with a dense pattern of these lines, creating a field of grass. The plotter bot is positioned in the foreground, and the grass lines extend into the background.

HACK CLUB

Get started making art!



Massachusetts Institute of Technology



MLH GLOBAL H⚡CK WEEK

Each month we host a Global Hack Week where you can learn new skills, build your portfolio, attend fun sessions and connect with other hackers in the MLH community.

It's free and easy to get started! Sign up now and get ready to hack!

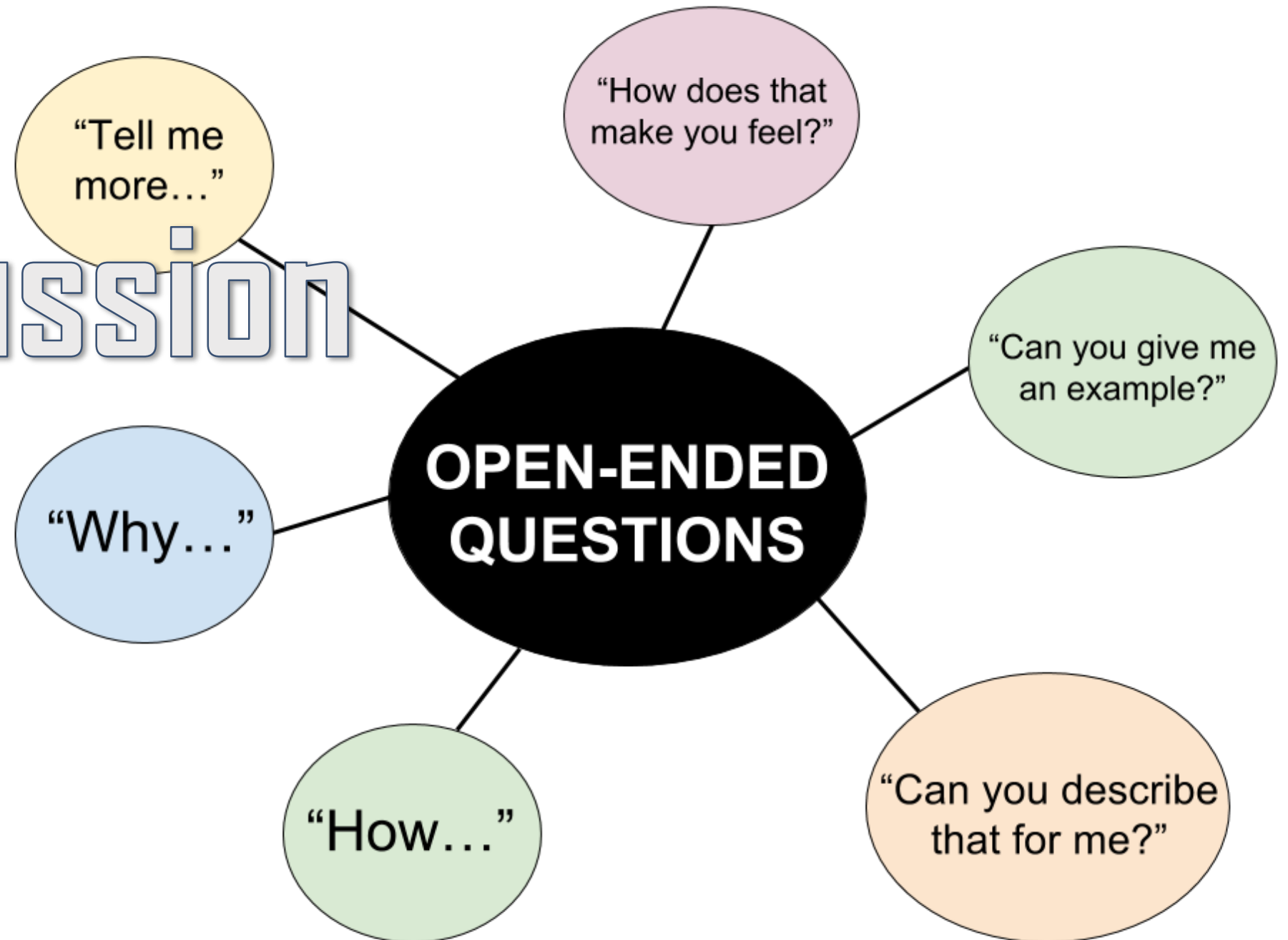


POWERED BY  |  Windows

MLH

What's it! ? ? ? ?

Queries & Open Discussion



FEEDBACK





Conclusion:-

Hack Club is committed to empowering teenagers in STEM and fostering a global community of student hackers. By providing resources, mentorship, and opportunities, Hack Club is shaping the future of technology and inspiring the next generation of innovators.

THAT'S ALL,
FROM OUR END.

