
Video in Education: A Classroom on a Screen

— Niravroh Laha —
Rachel Kwak

Our Software:

My Paint

<https://github.com/mypaint/mypaint/releases>



Open Broadcaster Software

<https://obsproject.com/download7>

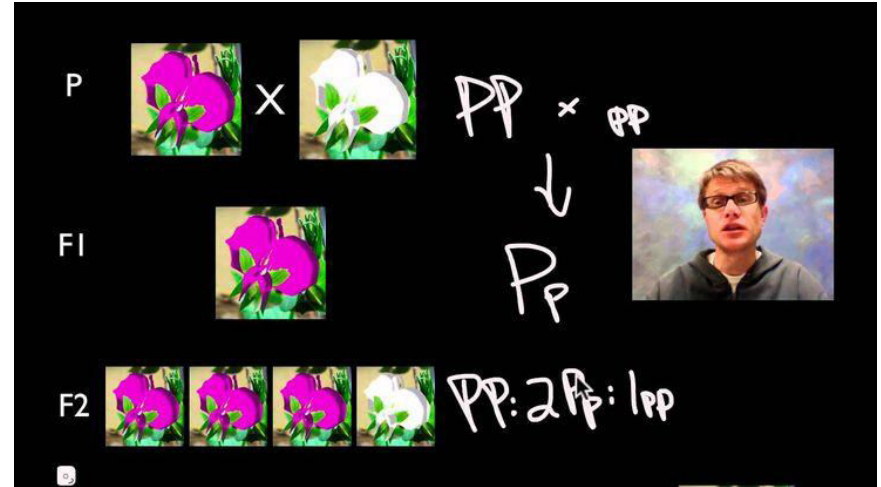


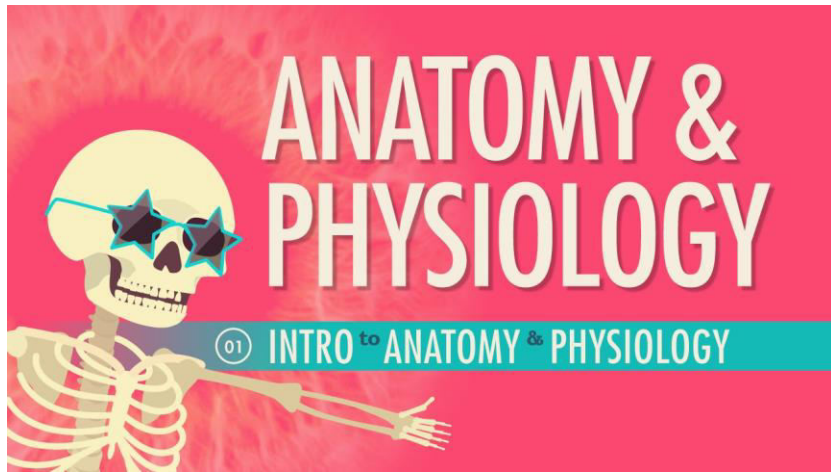
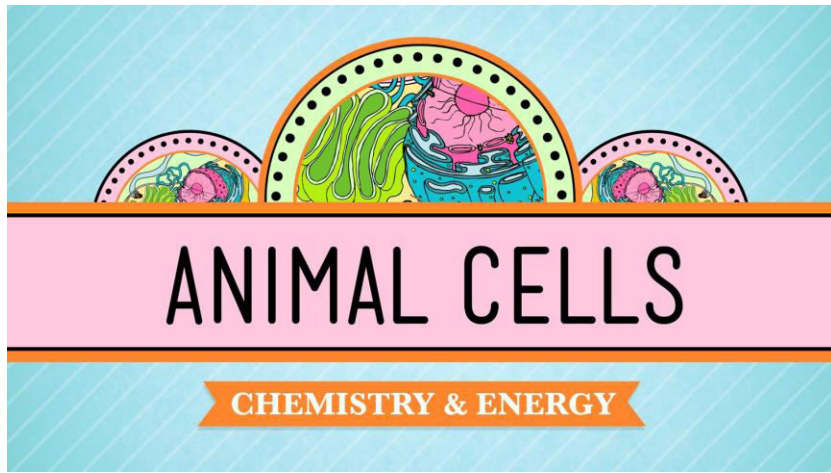
The Explosion of Educational Videos

Why use these software?

Advantages of Digital Lectures

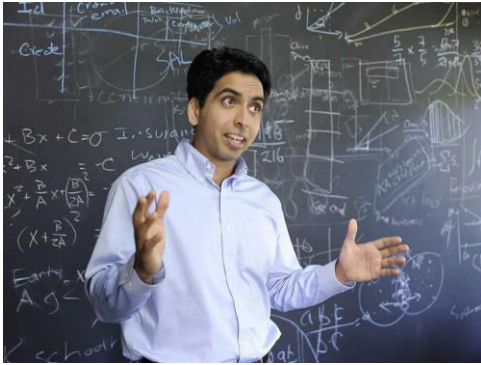
- More comfortable learning environment
- Convenience and flexibility
- More interaction and ability to concentrate
- Self-paced learning





A S P S C I E N C E





Bitcoin: The Security of Transaction Block Chains

The diagram illustrates the security of Bitcoin transaction block chains. It shows a transaction where 'Dan' sends 'C' to 'D' (represented as $C \xrightarrow{5} D$). This transaction is part of a 'Transaction Block Chain' consisting of blocks D_1, \dots, D_{N-1}, D_N . A 'genesis block' is shown as a grid. A transaction for 'Pete's Pizza' is shown as $1 \text{ Bitcoin} \rightarrow \text{Pizza}$. The text 'Longest Chain = Most Work' is written at the bottom right.

khانacademy.org

The Pythagorean Theorem

The video thumbnail shows a chalkboard with the Pythagorean Theorem $A^2 + B^2 = C^2$ and several diagrams of right-angled triangles. One diagram shows a right triangle with legs A and B , and hypotenuse C . Another diagram shows a right triangle with legs 4 and 3 , and hypotenuse 5 . The text 'Right triangle' and 'Right angle' are written on the board. A play button icon is in the center.

YouTube



MyPaint

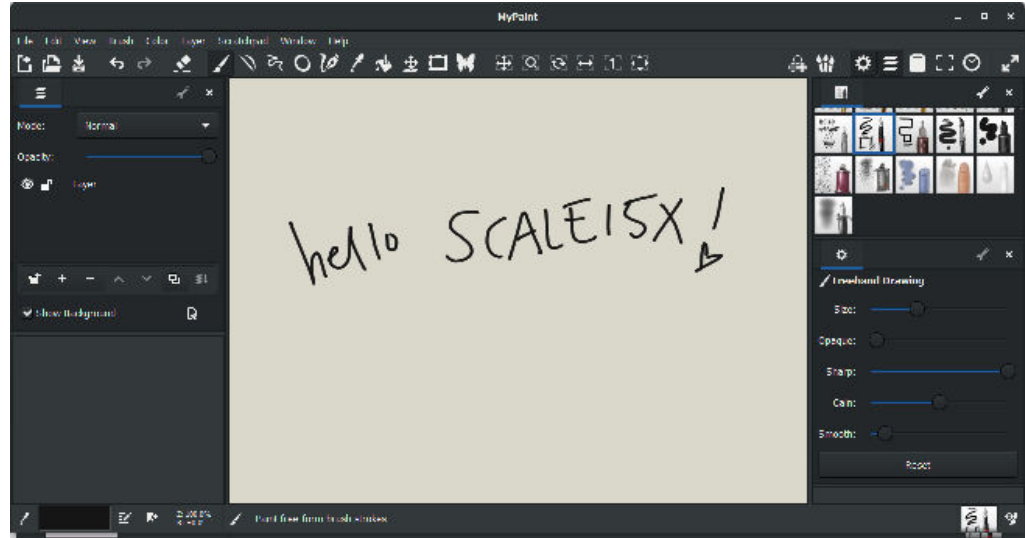
Basic art application

Most notable features:

Unlimited canvas

Wide selection of brush tools

Free-hand friendly





Open Broadcaster Software

Free, open source software for live streaming and recording

Open Broadcaster Software

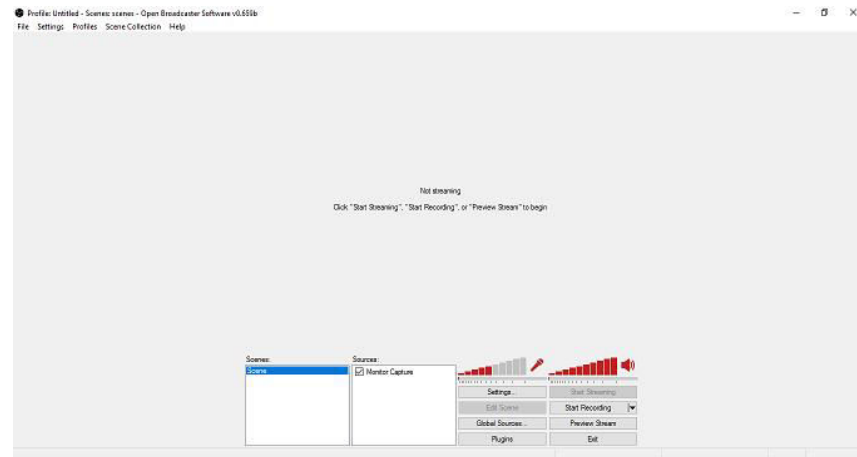
Screen capture software

Most notable features

Seamless integration of various video & audio inputs

Easy arrangement of scenes in 1 file

Excellent resource optimization



How the Two Programs Unite

1. Set up hotkeys and other settings on OBS
2. Have MyPaint open
3. Select subregion on OBS to capture MyPaint canvas
4. Start and stop recording
5. View video through Recordings Folder on OBS

Sample Video: Concepts in CS

Let's Make a Video!

What are the benefits of coming to SCALE?

Thank you!