

Assignment3

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This code is using the OpenCV library in Python along with custom Animator and MusicAnalyser classes for audio visualisation.

In the draw method, it first uses `background(0)` to set the background colour to black. Then, it draws the text on the canvas by traversing the FFT values of the audio file, depending on the size of each FFT value. The position of the drawing is dynamically adjusted according to the size of the FFT value and the height of the canvas to achieve the effect of audio visualisation.

The font size, colour, thickness of the text, and the specific letters displayed are all randomly selected, and the colour I chose is black pink, which represents black pink, which adds some variety and interest to the visualisation.

The jumping characters are full of energy and give the impression that it's not just the music in the image, but also blackpink's elaborate dance performances. The downside is that I originally wanted the lyrics to follow the music in this way, but there were many problems with the technical implementation, so I had to settle for the next best thing, the words blackpink. I'm still happy with the visualisation, it's like the youthful energy and positive emotions that kpop conveys, expressing the love of life, young people's dreams and vitality.