

The image shows a web application interface for a Polyalphabetic Cipher. At the top, there is a label "Type in a secret message:" followed by a text input field containing "i am batman". Below this, a "Shift word:" label is followed by a text input field containing "joker". To the right of the shift word field are two buttons: "Decrypt" and "Encrypt". Below these inputs is another text field showing the encrypted message "s px gsdbls". At the bottom of the interface is a frequency analysis chart. The x-axis is labeled "Encrypted message" and lists the alphabet from 'a' to 'z'. The y-axis represents frequency, with bars of varying heights in blue and red. The chart shows that the letter 's' has the highest frequency, followed by 'p', 'x', 'g', 'd', 'b', 'l', and 'i'.

The Polyalphabetic cipher is better than a Caesar cipher because the cipher cannot be as easily cracked using frequency analysis as the Caesar Cipher. The polyalphabetic cipher is also able to have multiple of the same letter in the cipher be changed to different ciphertexts. On top of that, it is much stronger than a simple substitution cipher because it can set letters to shifting patterns, making it harder to decrypt.