

# CyberChef

## Tool description

CyberChef can be used to: Encode, Decode, Format data, Parse data, Encrypt, Decrypt, Compress data, Extract data, perform arithmetic functions against data, defang data, and many other functions

CyberChef is a straightforward, user-friendly web application for doing various "cyber" operations in a web browser. Creating binary and hexdumps, compressing and decompressing data, computing hashes and checksums, parsing IPv6 and X.509, altering character encodings, and many more tasks are included in these operations. Simple encodings like XOR and Base64 are also included.

Technical and non-technical analysts can modify data in complex ways with the help of the program without having to deal with complicated tools or methods. It was created, designed, implemented, and incrementally refined over several years by an analyst using their 10% innovation time.

## Limitation:

Does not have support for Playfair Cipher and Hill Cipher.

The user interface could have been better.

## Screenshot

The screenshot displays the CyberChef web application interface. At the top, a green header bar shows 'Version 9.55.0', 'Last build: 20 days ago', and links for 'Options', 'About / Support', and a help icon. The main interface is divided into three columns. The left column is a sidebar with a search bar and a list of categories: Favourites, Data format, Encryption / Encoding, Public Key, Arithmetic / Logic, Networking, Language, Utils, Date / Time, Extractors, Compression, Hashing, Code tidy, Forensics, Multimedia, Other, and Flow control. The middle column is titled 'Recipe' and shows a 'Vigenère Encode' recipe with a 'Key' field containing 'decryptive'. The right column is titled 'Input' and contains a text area with a paragraph about the video game 'Need for Speed Unbound'. Below the input area is an 'Output' section showing the result of the operation, which is a Base64-encoded string. At the bottom of the interface, there is a 'STEP' button, a 'BAKE!' button with a chef icon, and an 'Auto Bake' checkbox.