

ENTHEREON CIPHER PROJECTS

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The **Enthereon Cipher Projects** are a series of projects and studies into cryptology and crypton technology. The series started as early as Fall 2013, primarily being study into numeric encryption and decryption. As to date, after Project Sunset in Spring 2017, the series now focuses on a full symbolic crypton.

Project Fake Numerals (Fall 2013 - Fall 2016)

The very first Enthereon Cipher Project, and primarily mathematically driven encryption. Moreover, the project only supported visual characters from the 9x9 keyboard with trans-numerical trans-literation. The cipher set is a simple alphabet character definition, with static non-user-bound encryption. The project evolved in terms of mathematical derivation over the years of activity, generally, manually derived for each visual character using a defined formula for the generation. The project ended with a system of crypted character manual derivation, generally being an extremely weak and common encryption.

Project Sunset (Spring 2017)

Features full support to all visual character symbols in the ASCII table and partial support to the extensions in Unicode, superceding Project Fake Numerals in visual character support. Also uses predefined crypton set, with all values from a string taken as a character, allowing an literal trans-crypton for every possible visual character in the ASCII table. The crypton method requires a character-look up from the defined crypton set, as the project moved away from mathematical value derivation. Towards its end, the project finished with a manual system of crypton and a barely stable software capable of the encryption method. The project resulted in the realization of a symbolic crypton engine, capable of retrieving a certain character from a defined crypton set.

Project Midnight (Winter 2020)

With a fully stable symbolic crypton engine still in development, Project Midnight succeeds Project Sunset by implementing the theoretical engine in terms of a database, with data retrieval and storage of a crypton set problems being solved in this manner. The system of encryption features a full symbolic support for the entire

Unicode character set, consisting of 1,112,064 characters, including a support for control characters. Moreover, the project features a non-static and user-dependent and user-trans-defined crypton set, due to the sheer power brought by the databasing method of implementation of the still-theoretical symbolic crypton engine. However, with this development, the encryption method is no longer viable to be done manually (though possible), due to efficiency problems in manual calculations. The project, lastly, features a graphical user interface, in a fully stable software that processes the crypton method.

Project Eclipse (Summer 2021, *est.*)

The crowning piece of the series, promises a full symbolic crypton down to the binary level of a symbol. This project promises an encryption technology that is logically unbreakable, taking inspiration from the infamous *Enigma Code*, with near infinite finite crypt possibilities. This would use the symbolic engine that has been in development for the past 4 years, thereby superceding Project Midnight, with all dependencies and requiries with the system itself, fully handled by the engine. The project will end with a native software that is capable of the crypton processes within itself, improving portability and system security. The crypton system is largely user-dependent, where the crypton set is dynamically generated per user per instance per machine installation, and takes a file and character (live) inputs.

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