PhotoBlock_{alpha}

One Login. Every Blockchain.



Watch the Video







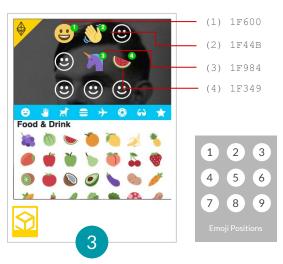




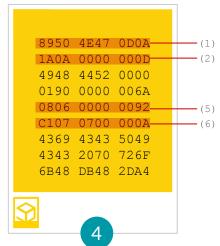




User creates EmojiKey by choosing emojis at each of nine positions in sequence.



PhotoBlock gets the byte value for each emoji in sequence, ignoring empty positions.



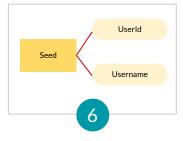
PhotoBlock divides photo bytes into nine segments and extracts bytes for each emoji position.

H1 = blake2s("1F600", "89504E470D0A") H2 = blake2s("1F44B", "1A0A000000D") H3 = blake2s("1F984", "080600000092") H4 = blake2s("1F349", "C1070700000A")

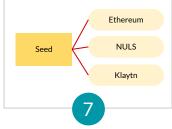
Seed = blake2s(H1, H2, H3, H4)

5

PhotoBlock uses the Blake2s algorithm to hash emoji bytes with photo bytes for each position, and finally, produces an aggregate hash of the positional hashes. This is the high-entropy seed for keygen.

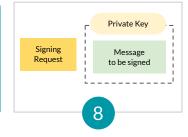


The seed is used to deterministically generate a UserId and Username in "adjective - phonetic word" format. Their hash is compared to the hash stored in the XMP (eXtensible Metadata Platform) photo section.



If the hash matches, the same seed is used to deterministically generate a public key and account address for the blockchain where PhotoBlock is being used.





The public key and account address are reported to the calling application. The private key is only generated for signing requests and not available to the application.

