

# Differences From Fhevm

You might be familiar with fhevm, which is a fork of the Ethereum Virtual Machine that supports homomorphic encryption by Zama.

While Fhenix uses a similar FHE technology, it does not use fhevm. Still, the two are similar in many ways. If you are familiar with one, the other should be easy to pick up.

In this page, we try and document the differences users that are familiar with fhevm should be aware of.

## Differences

- fhenix.js is the recommended Javascript library for interacting with Fhenix smart contracts.
- FHE library is available at the npm repository [@fhenixprotocol/contracts](#)
- .
- cmux
- is namedselect
- .
- reencrypt
- is namedsealoutput
- .
- Operations can be called directly as properties of encrypted types (e.g. `euint32.add(euint32)`)
- instead of `FHE.add(euint32, euint32)`
- ).
- Operations between encrypted types expect the types to match (e.g. `euint32 + euint32`)
- instead of `euint32 + euint64`)
- ).
- In Fhenix, we recommend using `theirEuintXX`
- input types instead of raw bytes when receiving encrypted data.
- Conversion to other encrypted types can be done using the `toUxx`
- functions. E.g. `euint32 b = a.toU32();`
- Division by zero will return `aMAX_UINT`
- value instead of throwing an error (e.g. `euint8(1) / euint8(0)`)
- will return `euint8(255)`
- instead of throwing an error).
- Permits
- and `Permissioned`
- contracts are the recommended way to handle access to sensitive data in Fhenix. To read more about permits and access control, see [Access Control](#)
- .
- Sealing and Decryption can be accessed using `seal`
- and `decrypt`
- respectively. [Edit this page](#)

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