

Thanks to Provably Fair, a technology that uses cryptography values, you can now play online betting games and prove that the game is fair or not. In fact, the technology, which is at the foundation of Bitcoin, gives the transparency of a physical casino to an online one. The games are random, just like brick-and-mortar gambling

THE BITCOIN TECHNOLOGY ANSWER



It eliminates the need to trust the casino, a third party or anyone else for that matter. This is because; there is no way to manipulate a wager that uses *hashing proof*.

The system uses a cryptographic algorithm using hash functions (SHA-256), which are almost impossible to decode and unbreakable for practical purposes.



Randomness of online games can be verified by players themselves in real time after each round played.

Using *Provably Fair* does not necessitate an online casino to accept bitcoins. It is only a technology that is borrowed from Bitcoin.

To understand how the concept of Provably Fair works, it is important to wrap your head around the term *hashing*.





Hashing is a computer process that converts any form of data into a unique fixed string of characters, which are meaningless if read by humans.

The hashed same data, gets the same result. If the data is modified in any way or differs even slightly from the original one, the result changes too.

Gambling → apply hash → e440a8e6372f5bda794863672e4e59750d5c9dde44e192e6fb40b0b2279d6ce2 Gambling3 → apply hash → 6d4b60cbbf53c312fc7a66861f3c6599a45ed7474b307876942d8be00064fc65 Even if only one character is altered, the resulting string will be completely different.



You can hash different words, images, or any form of data.

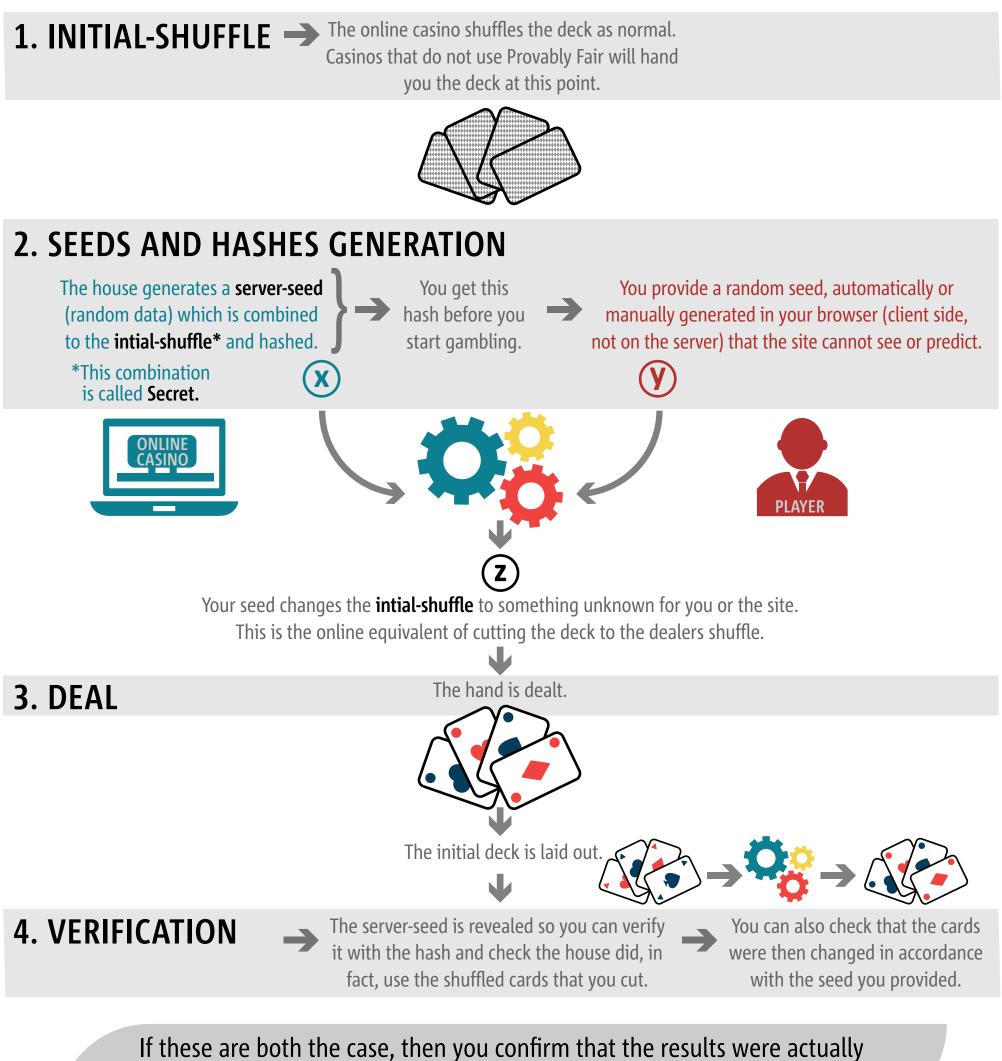
SHA256 hash function is popular for online data security and encryption.

SHA256, invented by the NSA (US National Security Agency), is the most popular hashing technique; a secure and irreversible process.



APPLICATION IN PROVABLY FAIR ONLINE BETTING GAMES

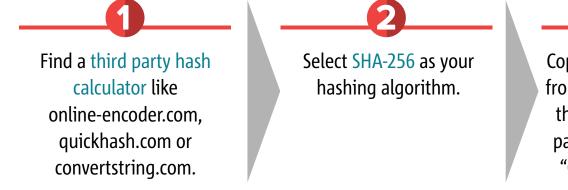
This same hashing can be used to cut the deck and confirm that it has not been tampered with, just like in a real casino. It verifies and self-audits wagers to ascertain they are fair. Let us use a game of online cards as an example:

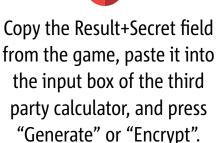


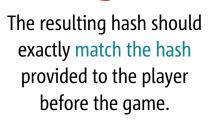
calculated fairly and that you have just played a provably fair hand!

HOW TO VERIFY MANUALLY

You can use the **"Verify"** button to prove that the spin matches the hash the site showed you before the game. Or you can check the game for fairness on another website, it is very easy to do. These are the steps:







FACTS AND TIPS ABOUT PROVABLY FAIR TECHNOLOGY

As the client-seed is only known by you, it is impossible for the house to distort the outcome.

Hashes are irreversible, there is no way to work backward and unearth your client-seed. With the server hash in hand, you can always independently verify that the initial-shuffle + server-seed have not been manipulated.

Because a hash is unique to every set of data; as long as the hash is the same, you can be sure nothing has changed. While it enables you prove that the game was fair, the Probably Fair, however, does not protect you from a casino that may choose not to honor a payment after a fair win.

Conclusion: it's always important to bet with a **high quality and trustworthy** bitcoin casino where the games are beautiful and **provably fair**.

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