
How Do Random Number Generators Work?

Written by Matt Kennedy | Last updated: 4 September 2015

What does a random number generator do? Simple: it generates a number completely at random with nothing affecting it. Random number generators are used in bingo games, slot machines and other games you'll find in casinos. The reason why [bingo sites](#) and [casinos](#), both traditional and online, use these generators is to ensure that gaming is completely fair and unbiased.

Slot Machine Generators

Let's take a look at random number generators that are used in slot machines. These generators come in the form of microprocessors, which are programmable devices that oversee the central functions of a computer. Microprocessors are also called CPUs, central processing units, and are known as being the heart or brain of a computer. The random number generator in a slot machine will generate a large range of numbers. It then assigns a symbol to each number. A number is generated randomly and the symbol assigned to that number would be the one the slot machine lands on. For example, let's say the random number generator uses a range of 1-100. Say there are 10 symbols: one symbol has numbers 1-10, the next 11-20, the next 21-30 and so on. Each symbol has an equal chance of being generated because each symbol has the same number of numbers assigned to it. All this happens once you put your coin in the slot machine. Exactly how random number generators work is a very complex process, though the gist of it is easy enough to understand.

Fairness

In fact, random number generators have to be tested out in laboratories before they are used in slots and other games. The reason for this is to ensure the generator works properly and is fully able to generate numbers completely at random, with no individual number favoured. A lot of people think if they keep playing a game, they'll eventually win because the odds dwindle in their favour the more they play. This assumption is incorrect: slot games are 100% randomised each and every time they're played. Let's say there's a 1/10 chance you'll win something. There'll be a 1/10 chance of you winning each and every time you play. If you play a few games one after the other, the odds don't go down, they stay exactly the same for every game. Random number generators have been successful at keeping gaming fair. This is why online casinos use them. They ensure that every single game is completely fair and unbiased and they show the player that the casino they're visiting can be trusted with their money. Just as random number generators in traditional slot machines, the ones used in online casinos undergo rigorous testing to ensure

they work effectively and will always generate a number completely at random. With random number generators, the odds cannot be altered in your favour. Each number is generated completely randomly and there's no way for you change that. If you want to win, you just have to be lucky!

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