

Sending NEAR

You might want to send tokens from a contract for many reasons.

- The contract uses something like the [Storage Standard](#)
- and needs to return deposits to users when they unregister.
- Users pay into the contract and the contract later pays these fees to the maintainers, redistributes them to users, or disburses them to some cause the users vote on.
- And more!

Blockchains give us programmable money, and the ability for a smart contract to send tokens lies at the heart of that ability.

NEAR makes this easy. Transferring NEAR tokens is the simplest transaction you can send from a smart contract. Here's all you need:

```
let amount =
```

```
BigInt ( 1_000_000_000_000_000_000_000_000 );
```

```
// 1 NEAR as yoctoNEAR let to =
```

```
"alice.near" :
```

`NearPromise . new (to) . transfer (amount)`; In the context of a full contract and function call, this could look like:

import

 $\{$

NearPromise ,

NearBindgen

}

from

```
"near-sdk-js" ;
```

```
@ NearBindgen ( { } ) export
```

class

Contract

```
{ pay ( { amount , to } )
```

```
{ return
```

NearPromise . new (to) . transfer (amount) ; } } Most of this is boilerplate you're probably familiar with by now – imports, setting up [NearBindgen](#) , etc. Some interesting details related to the transfer itself:

- Thelay
- method defined here accepts JSON as input, and numbers in JS [cannot be larger than \$2^{53}-1\$](#)
- , so for compatibility with deserializing JSON to JS, the integer is serialized as a string. Since the transfer
- method takes a value in [yocto](#)
- NEAR, it's likely to need numbers much larger than $2^{53}-1$
- .
- Returning the NearPromise
- : This allows NEAR Explorer, near-cli, near-api-js, and other tooling to correctly determine if a whole chain of transactions is successful. If your function does not return Promise
- , tools like near-cli will return immediately after your function call. And then even if the transfer
- fails, your function call will be considered successful.

Using `near-cli` or `near-cli-rs`, someone could invoke this function with a call like:

- near-cli
- near-cli-rs

[illegible]

'30 TeraGas' attached-deposit '0 NEAR' sign-as benjiman.near network-config testnet sign-with-keychain send [Edit this page](#) Last updated on Sep 29, 2023 by gagdiez Was this page helpful? Yes No

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