



Posted by u/Doge 3 years ago

Methods to wrap ERC721 tokens

[Question](#)

To wrap an ERC20 token, the standard method is to [approve](#) the wrapper contract to move tokens on your behalf via [transferFrom](#), then to call a [wrap](#) function or something similar on the wrapper contract.

ERC721 tokens can of course use this same method, but there are a few more options available: you can use [setApprovalForAll](#), roughly equivalent to calling [approve](#) on an ERC20 with an amount that exceeds [totalSupply](#), or you can call [safeTransferFrom](#) (and even specify an owner in the data parameter) and perform the [wrap](#) logic using [onERC721Received](#).

This last method seems superior for a number of reasons - it requires fewer transactions, gives the wrapper contract less control over your NFTs, and won't fire as many spurious events related to approvals. However, it would also need to carefully implement [onERC721Received](#) in a way that protected against exploitation. Unwrapping the NFT could also be performed using either [safeTransferFrom](#) or [transferFrom](#) - both have their own comparative strengths and weaknesses.

Interested to hear opinions from anybody on which method is preferred (or both should be supported), especially if you've implemented something like this before. Also, are there any existing implementations or standards related to wrapping ERC721s? I'm aware of Wrapped Cryptokitties, which wraps CK NFTs in an ERC20 token and relies on approval, but haven't been able to find an implementation that uses [onERC721Received](#).

Thanks!

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