

# Flash Loans

Flash loans by definition are uncollateralized loans that are borrowed and repaid within the same programmable transaction block. Users can borrow flash loans in the base or quote asset from any DeepBook pool. Flash loans return a FlashLoan hot potato (struct with no abilities), which must be returned back to the pool by the end of the call. The transaction is atomic, so the entire transaction fails if the loan is not returned.

The quantity borrowed can be the maximum amount that the pool owns. Borrowing from a pool and trading in the same pool can result in failures because trading requires the movement of funds. If the funds are borrowed, then there are no funds to move.

Following are the endpoints that the Pool exposes for flash loans.

Borrow base assets from the Pool . The function returns a hot potato, forcing the borrower to return the assets within the same transaction.

Borrow quote assets from the Pool . The function returns a hot potato, forcing the borrower to return the assets within the same transaction.

Return the flash loaned base assets to the Pool . FlashLoan object is unwrapped only if the assets are returned, otherwise the transaction fails.

Return the flash loaned quote assets to the Pool . FlashLoan object is unwrapped only if the assets are returned, otherwise the transaction fails.

## API

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