

NOTE, DEX, and Lending Market

When building DApps, you may wish to leverage Canto's Free Public Infrastructure, such as its native unit of account, DEX, or lending market. This page provides an overview of how these primitives are designed and how you can interact with them.

For mainnet and testnet deployment addresses, refer to the [Contract Addresses](#) page:

[page Contract Addresses](#)

NOTE

[NOTE](#) must be borrowed from the Accountant via the Canto Lending Market. The amount of NOTE circulating at any given time (including NOTE that users have supplied back to the Canto Lending Market) is equal to the sum of all NOTE and cNOTE not held by the Accountant.

The NOTE smart contract may be modified and redeployed at a new address in the future. For this reason, DApps should use the `CToken.underlying()` view on the [cNOTE](#) contract to determine the address for NOTE instead of hardcoding it.

Canto DEX

The Canto DEX is built around three contracts [BaseV1Factory](#), [BaseV1Pair](#), and [BaseV1Router01](#). Each liquidity pool is represented by a unique [BaseV1Pair](#) contract generated by the [BaseV1Factory](#).

For most use cases, [BaseV1Router01](#) offers sufficient functionality. Key methods include:

Method	Description
<code>pairFor</code>	Calculates the address for a pair
<code>isPair</code>	Checks if an address is a valid pair
<code>getReserves</code>	Fetches and sorts the reserves for a pair
<code>getAmountOut</code>	Calculates amount out for a specified pair
<code>addLiquidity</code>	Adds liquidity to a pair
<code>removeLiquidity</code>	Removes liquidity from a pair
<code>swapExactTokensForTokensSimple</code>	Swaps one token for another directly
<code>swapExactTokensForTokens</code>	Swaps one token for another using a specified route
<code>getUnderlyingPrice</code>	Gets underlying asset price as a mantissa

For CANTO-specific and other methods, refer to the [contract source code](#).

Canto Lending Market

The Canto Lending Market is an adaptation of [Compound v2](#). Its functional design is unchanged in that the primary means of interacting with the lending market is the [CToken](#), an ERC20 representation of a supplied asset.

Key methods on [CToken](#) contracts include:

Method	Description
<code>mint</code>	Deposits a token and mints the corresponding CToken
<code>redeem</code>	Redeems a specified amount of CToken tokens for the underlying token
<code>redeemUnderlying</code>	Redeems CToken tokens for a specified amount of the underlying token
<code>borrow</code>	Borrows the underlying token
<code>repayBorrow</code>	Repays a borrow of the underlying token

For more information on the Canto Lending Market's design, see the [Compound v2 docs](#).

[Previous Quickstart Guide](#) [Next Contract Secured Revenue \(CSR\)](#) Last updated 3 months ago On this page * [NOTE](#) * [Canto DEX](#) * [Canto Lending Market](#)