

# Add liquidity

Following the swap example, here's an example of adding an ETH-USDC LP. The context is in the previous example, so I'll just paste the core code.

Here we're showing an example of creating liquidity using both tokens in a pair, but since Velocore's LPs all allow imbalanced deposits, it doesn't matter if it's just one. The frontend shows this as a 'Magic deposit'.

**\*\*Always refer [Example Codes](#) to see what was the exact implementation of helper functions like toToken, toPoolId, toTokenInfo.**

...

```
Copy // Add LP involves 3 tokens. ETH, USDC, LP token. Token[]memorytokens=newToken;
tokens[0]=toToken(ERC20(usdc)); tokens[1]=NATIVE_TOKEN; tokens[2]=toToken(ERC20(usdc_eth_lp));
```

```
// Adding LP is swapping 2 tokens to 1 lp. So op type is again, swap!
VelocoreOperation[]memoryops=newVelocoreOperation; ops[0].poolId=toPoolId(SWAP,usdc_eth_lp);
ops[0].tokenInformations=newbytes32; // We use "EXACTLY" for the amount we know and "AT_MOST" for what we don't
know exactly but expect to receive at least a certain amount. // Want to use 0.1e6 USDC(index 0) + 0.001e18 ETH(index 1)
in exchange for at least 0 LP(index 2). (apply your slippage here)
ops[0].tokenInformations[0]=toTokenInfo(0x00,EXACTLY,0.1e6);
ops[0].tokenInformations[1]=toTokenInfo(0x01,EXACTLY,0.001e18);
ops[0].tokenInformations[2]=toTokenInfo(0x02,AT_MOST,0); ops[0].data="";
```

```
//we just called execute() here but of course if you are calling an external contract with ETH value transfer involved, // you
should write it like this : vault.execute{value:0.001e18}(tokens, new int128, ops); returnexecute(tokens,newint128,ops);
```

...

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