

## COZ Weekly Report #11 - 2017.09.19

**City Of Zion (COZ)** is a group of open source developers that formed to support NEO. We provide weekly reports that summarize our goals, projects, and progress. In exchange, the NEO Council is supporting these contributions through NEO rewards.

Our governance can be seen [clicking here](#).

Our donation address is AXSoNQEKjmqPBNPg5cNrHyWivfjok3Vj9D

**The community has decided to reward 502 NEO for the efforts listed below**  
**COZ Council members are excluded from any weekly reward or COZ competitions**

COZ is driving two campaigns:

1 - The dApps competition at <https://cityofzion.io/dapps/1>

2 - The stack exchange site at

<http://area51.stackexchange.com/proposals/110921/neo-blockchain>

The following is a list of work on COZ projects completed this week:

### [neo-js-blockchain](#)

- getAssetBalance functional in full node mode for all asset types on both testnet and mainnet
- Better docs
- **On Deck:** Dynamic seed registration, Lazy balance and contract caching

### [Mobile Wallet \(Android/iOS\)](#)

- Testing of functionality
- Refactor code

### ICO Slack Helper

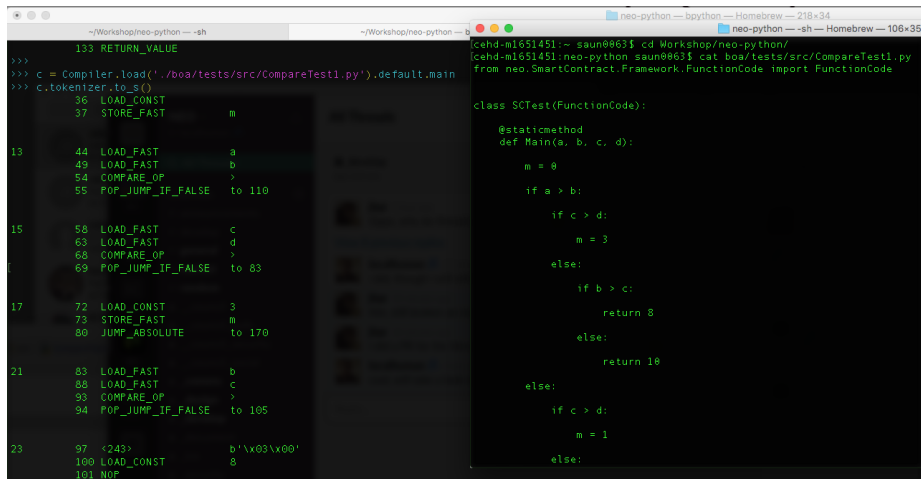
- Login with Slack
- Settings page
- Bot management
- Reminder filter

### [Neon JS SDK:](#)

- Refactor to support new 0x transaction naming.

### [Neo Python](#)

- initial work on compiling smart contracts written in python



```

133 RETURN_VALUE
>>> c = Compiler.load('./boa/tests/src/CompareTest1.py').default.main
>>> c.tokenizer.to_s()
36 LOAD_CONST
37 STORE_FAST      m

13      44 LOAD_FAST      a
      49 LOAD_FAST      b
      54 COMPARE_OP      >
      55 POP_JUMP_IF_FALSE to 110

15      58 LOAD_FAST      c
      63 LOAD_FAST      d
      68 COMPARE_OP      >
      69 POP_JUMP_IF_FALSE to 83

17      72 LOAD_CONST      3
      73 STORE_FAST      m
      80 JUMP_ABSOLUTE  to 170

21      83 LOAD_FAST      b
      88 LOAD_FAST      c
      93 COMPARE_OP      >
      94 POP_JUMP_IF_FALSE to 105

23      97 (243)          b'\x03\x00'
     100 LOAD_CONST      8
     101 NOP
  
```

```

icehd-m1651451:~ saun0063$ cd Workshop/neo-python/
icehd-m1651451:neo-python saun0063$ cat boa/tests/src/CompareTest1.py
from neo.SmartContract.Framework.FunctionCode import FunctionCode

class SCTest(FunctionCode):
    @staticmethod
    def Main(a, b, c, d):
        m = 8
        if a > b:
            if c > d:
                m = 3
            else:
                if b > c:
                    return 8
                else:
                    return 10
        else:
            if c > d:
                m = 1
            else:
  
```

- Added ability to compile, test deploy, and test invoke all in one step, which aids in the fast development of smart contracts

## [NeoScan](#)

- Start of design concept implementation
- Code review for fee calculation
- Testnet server setup

## [Documentation](#)

- Japanese translations of Java documents, general improvements
- Improved English documentation

## [Neo Go SDK](#)

Released v1.2.0, which contains the following:

- Elliptic curve implementation.
- Base58 encoding.
- More unit tests.
- Deriving a \*public address from a private key\* (WIF).

## [Neo Swift SDK](#)

Finished this week:

- Attributed Raw Transactions
- Transaction History
- Account State
- Remove all third party dependencies



- Dynamic framework (One build for both device and ios Simulator)

[Read more about Neo Swift Here](#)

Join us in slack, we hope new developers will find support from the community in #develop channel.

FCC, on behalf of COZ Council.