

# EOSFACTORY

SMART-CONTRACT DEVELOPMENT & TESTING IDE

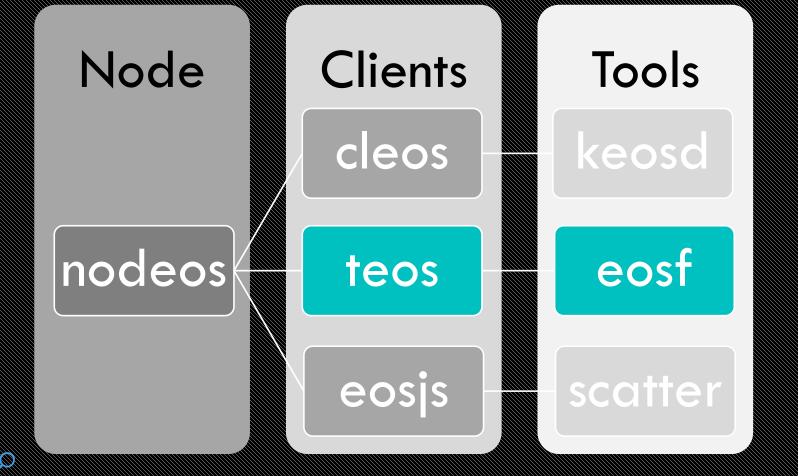
Presented by

TOKENIKA

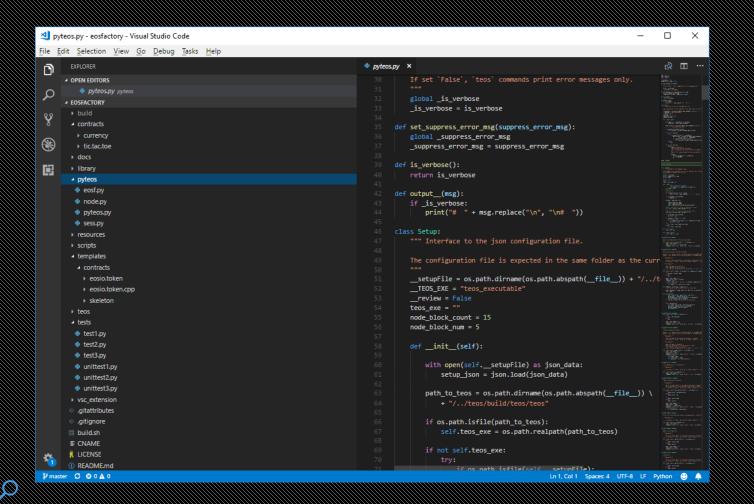
An integrated development environment (IDE) is a software application that provides comprehensive facilities to computer programmers for software development. An IDE normally consists of a source code editor, build automation tools, and a debugger.

Wikipedia

#### EOSIO INFRASTRUCURE



#### EOSFACTORY COMPONENTS





#### MAIN FEATURES IN V1.0

- 1. Standard unit-testing framework
- 2. Support for user-defined workspaces
- 3. Support for debugging
- 4. Preliminary code verification
- 5. Visual Studio Code integration

#### EOSFACTORY INTELLISENSE

```
4 hello.tokenika.cpp - hello.tokenika - Visual Studio Code
                                                                                                                                                                     _ _
File Edit Selection View Go Debug Tasks Help
                                            • hello.tokenika.cpp ×
                                                   #include <eosiolib/eosio.hpp>

▲ OPEN EDITORS

                                                   #include <eosiolib/print.hpp>

▲ HELLO.TOKENIKA

                                                   #define DEBUG

    vscode

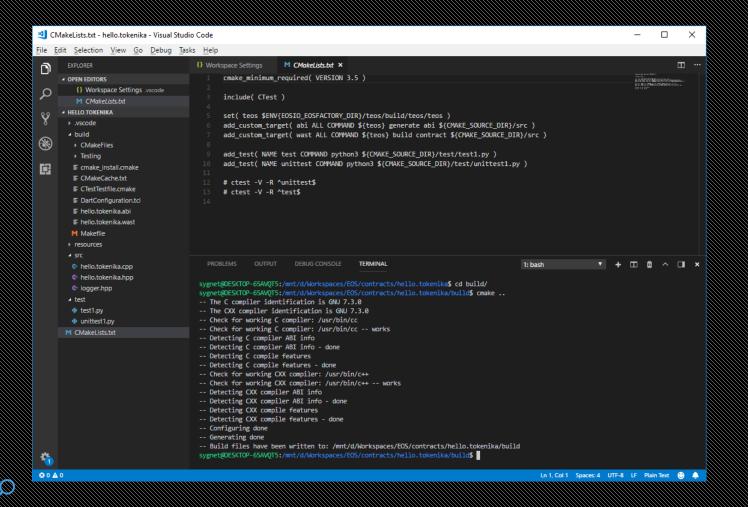
                                                   #include "hello.tokenika.hpp"

■ hello.tokenika.abi

                                                   using namespace eosio;
        > resources
                                                  class hello : public eosio::contract {
                                            contract.hpp C\Users\tokenika\AppData\Local\packages\CanonicalGroupLimited.Ubuntu18.04onWindows_79rhkp1fndgsc\LocalState\rootfs\usr\local\include\eosiolib
         € hello.tokenika.hpp
         € logger.hpp
        test1.py
                                                   class contract {
         unittest1.py
       M CMakeLists.txt
                                                         contract( account_name n ):_self(n){}
                                                         inline account_name get_self()const { return _self; }
                                                         account_name _self;
                                                         using contract::contract;
                                                         void hi( account_name user ) {
                                                           logger_info("user: ", name{user});
                                                           require_auth( user );
                                                           print( "Hello, ", name{user} );
                                                   EOSIO_ABI( hello, (hi) )
⊗0 ∆ 0
                                                                                                                       class hello Ln 10, Col 32 Spaces: 2 UTF-8 LF C++ LinuxWin32 😃 🔔
```

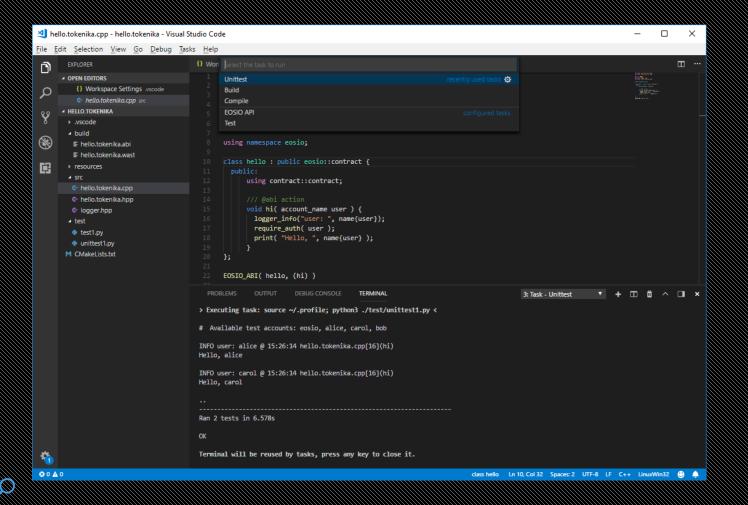


#### EOSFACTORY CMAKE SUPPORT





#### **EOSFACTORY UNIT TESTS**





#### EOSFACTORY DEBUGGING

```
1 hello.tokenika.cpp - hello.tokenika - Visual Studio Code
                                                                                                                                                            _ _
File Edit Selection View Go Debug Tasks Help
                                                               ♣ hello.tokenika.cpp ×
                                         () Workspace Settings
                                                #include <eosiolib/eosio.hpp>

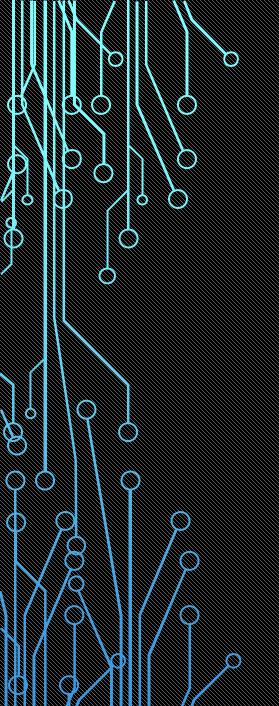
▲ OPEN EDITORS

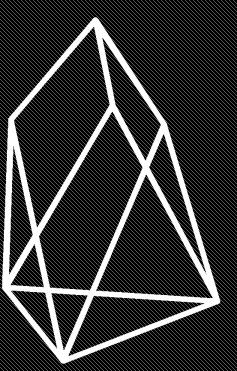
                                                #include <eosiolib/print.hpp>
         () Workspace Settings .vscode
          • hello.tokenika.cpp src
                                                #define DEBUG

▲ HELLO.TOKENIKA

                                                #include "hello.tokenika.hpp"
        ▶ build
                                                class hello : public eosio::contract {
        hello.tokenika.cpp
         G hello.tokenika.hpp
                                                     using contract::contract;
        void hi( account_name user ) {
        test1.py
                                                        logger_info("user: ", name{user});
                                                       require_auth( user );
       M CMakeLists.txt
                                                        print( "Hello, ", name{user} );
                                            PROBLEMS OUTPUT DERUG CONSOLE TERMINAL
                                                                                                                                                  ▼ + □ û ^ □ ×
                                          2: Test command: /usr/bin/python3 "/mnt/d/Workspaces/EOS/contracts/hello.tokenika/test/unittest1.py"
                                          2: Test timeout computed to be: 1500
                                          2: Ran 2 tests in 5.515s
                                          2: # Available test accounts: eosio, alice, carol, bob
                                          2: INFO user: alice @ 15:34:26 hello.tokenika.cpp[16](hi)
                                          2: INFO user: carol @ 15:34:27 hello.tokenika.cpp[16](hi)
                                         2: Hello, carol
                                          2/2 Test #2: unittest ...... Passed 5.66 sec
                                          100% tests passed, 0 tests failed out of 2
                                          Total Test time (real) = 10.95 sec
                                          sygnet@DESKTOP-65AVQT5:/mnt/d/Workspaces/EOS/contracts/hello.tokenika/build$
⊗0 ∆ 0
                                                                                           hello::hi(account_name user) Ln 16, Col 43 (34 selected) Spaces: 2 UTF-8 LF C++ LinuxWin32 😃 🔔
```







## THANK YOU

ANY QUESTIONS?

### **EOSFACTORY**

eosfactory.io github.com/tokenika/eosfactory

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