

Diagnostics for solang-vscode

The diagnostics in solang-vscode are useful to test the code before compiling to ensure the code is correct and compiles.

Diagnostics kick-in when you:

- Open a solidity file(.sol).
- Make changes in the opened file and save it.

Wondering how this works?

When you open a file the client sends this doc URI to the server. The solang-server uses solang as a backend for processing solidity, opens the specified file and performs two operations:

1. Parsing the Solidity code.
2. Resolving the AST and returning any errors occurred in the process.

The solang-server after receiving the diagnostics performs necessary transforms like conversion of messages to LSP types and mapping of the line and column of the messages with the file offsets, finally forwarding it to the client.

Which properties are supported:

1. Errors.
2. Information.
3. Warnings.
4. Debug/Hints.

Want to run some tests?

Currently the extension comes with 4 diagnostics tests which tests the extension on:

1. Column, Line alignment of diagnostics with respect to file.
2. Checking for correct warnings.
3. Checking for correct hint messages from the server.
4. Checking for correct error messages from the server.

How to run these tests?

1. Build the extension (Ctrl+Shift+B).
2. Press F5 and from the bottom menu select "Extension tests". The result should appear in the debug console.

We are working on more features, stay tuned!