

FAQ-Continuous Evaluation

Q: How do we prevent unsafe code execution?
When code buys and sells stocks or launches rockets, should such code be automatically executed?

A:

Lamdu is a pure language (similar to Haskell).
Execution of code with effects is performed only
when the user explicitly chooses so.

[illegible]





Type Errors

Static typing has many benefits, but usually it adds verbosity and requires deciphering complicated type errors.

```
In file included from /usr/include/c++/4.6/algorithm:63:0,
                 from error_code.cpp:2:
/usr/include/c++/4.6/bits/stl_algo.h: In function 'std::__find(_RandomAccessIterator, _RandomAccessIterator, const _Tp&,
std::random_access_iterator_tag) [with _RandomAccessIterator = __gnu_cxx::__normal_iterator*, std::vector > >, _Tp = int]':
/usr/include/c++/4.6/bits/stl_algo.h:4403:45:   instantiated from '_IIter std::find(_IIter, _IIter, const _Tp&) [with _IIter = __gnu_cxx::__normal_iterator*,
std::vector > >, _Tp = int]'
error_code.cpp:8:89:   instantiated from here
/usr/include/c++/4.6/bits/stl_algo.h:162:4: error: no match for 'operator==' in '__first.__gnu_cxx::__normal_iterator::operator* [with _Iterator = std::vector*,
_Container = std::vector >, __gnu_cxx::__normal_iterator::reference = std::vector&]() == __val'
/usr/include/c++/4.6/bits/stl_algo.h:162:4: note: candidates are:
/usr/include/c++/4.6/bits/stl_pair.h:201:5: note: template bool std::operator==(const std::pair&, const std::pair&)
/usr/include/c++/4.6/bits/stl_iterator.h:285:5: note: template bool std::operator==(const std::reverse_iterator&, const std::reverse_iterator&)
```

A snippet from a long C++ type error (from <https://codegolf.stackexchange.com/a/10470>)



Type *Mismatches*



When creating an expression in a place where its type doesn't match, a fragment is created. The red frame indicates a type mismatch, with the fragment type and expected type both displayed.

```
filter 1 .. 1000
keep x → x % 3
        Num
        Bool
```



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