What I did on my summer holiday

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...also...

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Lexing and parsing and how to perform evil.

- What does a lexer do?
- What does a parser do?
- How can we subvert this with the minimum of C code?

The token pump

- Very small change to C
- Simple way to activate the pump and process tokens.
- Producer/Consumer model lends itself to non-trivial token stream manipulation very simply

How the pump attaches

- Does not change Lua core
- Needs to access core objects and functions



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Okay, but what about more complex evil?

- We have lua, how much more complex do you want?
- Try to avoid reimplementing Lua's parser
- What about coroutines?

So, how about an example

Simple pump example ->

Pah, too easy, something more clever please?

<- Macro example

Prove it's useful

/\ Mutation "operators" are somewhat easier John Belmonte's exception idea

Oh dear, you're going to hell

- Most probably
- But imagine how powerful an idea token filtering is.

 Also, lhf is coming with me if I do, it's his fault I did this.

What comes next?

- There's no include directive
- There's no token pasting
- I did no overloaded macros, they should be trivial though
- There're plenty of more evil token filtering possibilities