

CAPHYON ⚡ LIGHTNING TALKS

C++ Insights

July, 2018



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What is C++Insights ?



C++Insights is a **clang**-based tool which does a source to source transformation. Its goal is to make things visible which normally, and intentionally, happen behind the scenes.

Andreas Fertig

<https://github.com/andreasfertig/cppinsights>

What is C++Insights ?

The left-hand pane input modern `C++` code.

The right pane shows the equivalent C++ code as how Clang "sees" it.

It's not LLVM IR, it is very basic C++. No fancy constructs!

You get to peak behind the scenes and figure out how stuff actually works.

Great teaching tool.

<https://cppinsights.io>

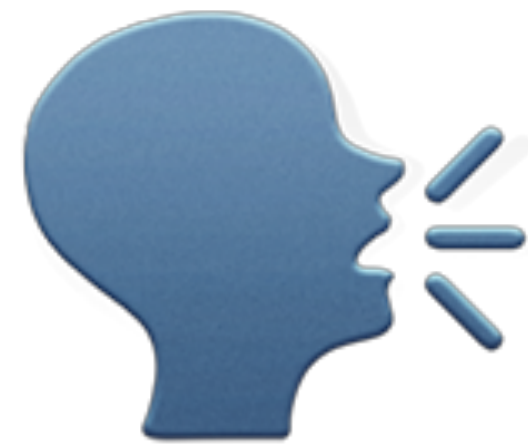
Demo Time



Demo Highlights

- Overview of UI
- Examples:
 - range for loops
 - fun with auto (guess the type !)
 - algorithms and lambdas (captures)
 - structured bindings
 - variadic templates & fold expressions

Questions



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