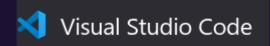
clangd

C++ Smarts in Any Editor

by Botond Ballo













Language Server Protocol

M Editors

N Languages







One Protocol







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• • •

What Clangd Can Do

Presentation

```
auto angle: double
| = std::atan2(y:mypoint.y, x:mypoint.x);

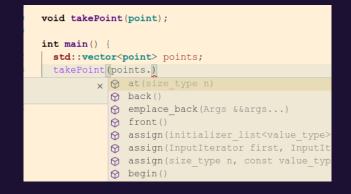
return angle;

No viable conversion from returned value of type
    'double' to function return type
    'std::error_code' clang(typecheck_nonviable_condition)
```

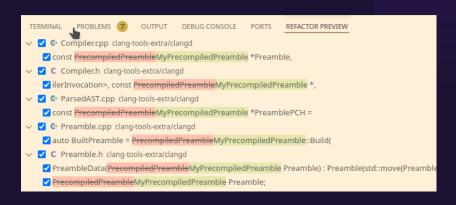
Navigation

```
static llvm::ErrorOr<PrecompiledPreamble>
         Build (const CompilerInvocation & Invocation,
PrecompiledPreamble.h ~/dev/projects/llvm/src/clang/include/clang/Frontend - References (4)
       namespace clang
                                  > Preamble.cpp clang-tools-extra/clangd
       class PrecompiledPream =
                                     PrecompiledPreamble.h clang/include/clang/Front... 1
         /// \param StoragePati
                                         Build(const CompilerInvocation &Invocation,
 79
         /// file to store PCH
                                     > ASTUnit.cpp clang/lib/Frontend
 80
         /// used. This paramet
                                      > PrecompiledPreamble.cpp clang/lib/Frontend
 81
         /// \naram Callbacks
```

Code Completion



Refactoring



How to Set Up

compile_commands.json

```
{
    "directory": "...",
    "file": "...",
    "command": "..."
},
```

CMake

```
~/project/build$ cmake \
> -DCMAKE_EXPORT_COMPILE_COMMANDS=ON ..
```

Build EAR 5-2-7

```
$ bear -- make
```

How to Get Involved

Clangd is part of the LLVM Project



clangd.llvm.org



LLVM Discord (#clangd channel)



LLVM Discourse



github.com/clangd/clangd

