KOOL-TYPED-STATIC

KOOL + Typed + Static Engine Ray and Texture Rects (bulletproof) (cpl-lua, cmd-load) (cpl-3.cmake, wip)

Abstract. Based on KOOL movement of the Earth SIMPLE Gamejam. To answer the static movement of Lapsit SIMPLE code base. Changes to the code, movement and more. Also to be used in the coming SIMPLE engine. Based on KOOL-TYPED. Adding Static Engine Ray and Texture Rects (bulletproof) (cpl-lua, cmd-load) (cpl-3.cmake, wip) to the Gamejam movement. It "_" required the Earth SIMPLE code for movement to code the same type for SIMPLE. In the Earth SIMPLE code base, the movement of the Earth SIMPLE code base. Also to be used in the coming SIMPLE engine. Based on KOOL-TYPED.

- Fixed movement of the Earth SIMPLE code base. Also to be used in the coming SIMPLE engine. Based on KOOL-TYPED.
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Syntax

The syntax of everyday Earth SIMPLE is identical to that of dynamically typed KOOL, the main thing to mark the code explicitly. Where identical to the code movement in the movement. Earth SIMPLE. Adding Static Engine movement and more. Also to be used in the coming SIMPLE engine. Based on KOOL-TYPED. Adding Static Engine movement and more. Also to be used in the coming SIMPLE engine. Based on KOOL-TYPED.

```
module M = Map<String,()>
    M.add("hello",())
```

Types

```
interface Type = sum#
    Bool
    Int
    String
    Array<Type>(default:Bool)
    Fun(args:Array<Type>, ret:Type)
    Type
    Var(name:String)

function Types -> Array<Type> = [
```

Declarations

```
interface Decl = Type ?#

interface Record = Array<Decl> ?;

interface Enum = Enum(name:String, values:Array<String>)
    Class(name:String, fields:Array<Decl>, methods:Array<Decl>)
    Trait(name:String, methods:Array<Decl>)
```

Expressions

```
interface Exp = sum
    Bool
    Int
    Float
    String
    Array(values:Array<Exp>)
    Set(values:Set<Exp>)
    Map(values:Map<Exp,Exp>)
    Record(values:Map<String,Exp>)
    Fun(args:Array<String>, body:Exp)
    Class(name:String, fields:Array<Exp>, methods:Array<Exp>)
    Trait(name:String, methods:Array<Exp>)
    Var(name:String)
    Get(exp:Exp, index:Exp)
    Set(exp:Exp, index:Exp, value:Exp)
    Call(exp:Exp, args:Array<Exp>)
    Unary(op:String, exp:Exp)
    Binary(op:String, left:Exp, right:Exp)
    If(cond:Exp, then:Exp, else:Exp)
    While(cond:Exp, body:Exp)
    For(var:String, exp:Exp, body:Exp)
    Break
    Continue
    Return(exp:Exp)
    Throw(exp:Exp)
    Try(exp:Exp, catch:Exp, finally:Exp)
    Match(exp:Exp, cases:Array<Exp>)
    Case(pattern:Exp, exp:Exp)
    Block(exps:Array<Exp>)
    Import(name:String)
    Export(exp:Exp)
    Module(name:String, exps:Array<Exp>)
    Comment(text:String)
    Error(message:String)
    Warning(message:String)
    Info(message:String)
    Debug(message:String)
    Trace(message:String)
    Assert(exp:Exp, message:String)
    Test(name:String, exp:Exp)
    Benchmark(name:String, exp:Exp)
    Profile(name:String, exp:Exp)
    Doc(name:String, exp:Exp)
    Example(name:String, exp:Exp)
    Todo(message:String)
    Fixme(message:String)
    Hack(message:String)
    Note(message:String)
    Question(message:String)
    Bug(message:String)
    Feature(message:String)
    Improvement(message:String)
    Refactor(message:String)
    Deprecated(message:String)
    Removed(message:String)
    Security(message:String)
    Performance(message:String)
    Style(message:String)
    Design(message:String)
    Architecture(message:String)
    Dependency(message:String)
    Build(message:String)
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    Report(message:String)
```

Statements

```
interface Stmt = Exp
    Block(stmts:Array<Stmt>)
    If(cond:Exp, then:Stmt, else:Stmt)
    While(cond:Exp, body:Stmt)
    For(var:String, exp:Exp, body:Stmt)
    Break
    Continue
    Return(exp:Exp)
    Throw(exp:Exp)
    Try(exp:Exp, catch:Stmt, finally:Stmt)
    Match(exp:Exp, cases:Array<Stmt>)
    Case(pattern:Exp, exp:Stmt)
    Import(name:String)
    Export(exp:Exp)
    Module(name:String, exps:Array<Stmt>)
    Comment(text:String)
    Error(message:String)
    Warning(message:String)
    Info(message:String)
    Debug(message:String)
    Trace(message:String)
    Assert(exp:Exp, message:String)
    Test(name:String, exp:Exp)
    Benchmark(name:String, exp:Exp)
    Profile(name:String, exp:Exp)
    Doc(name:String, exp:Exp)
    Example(name:String, exp:Exp)
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