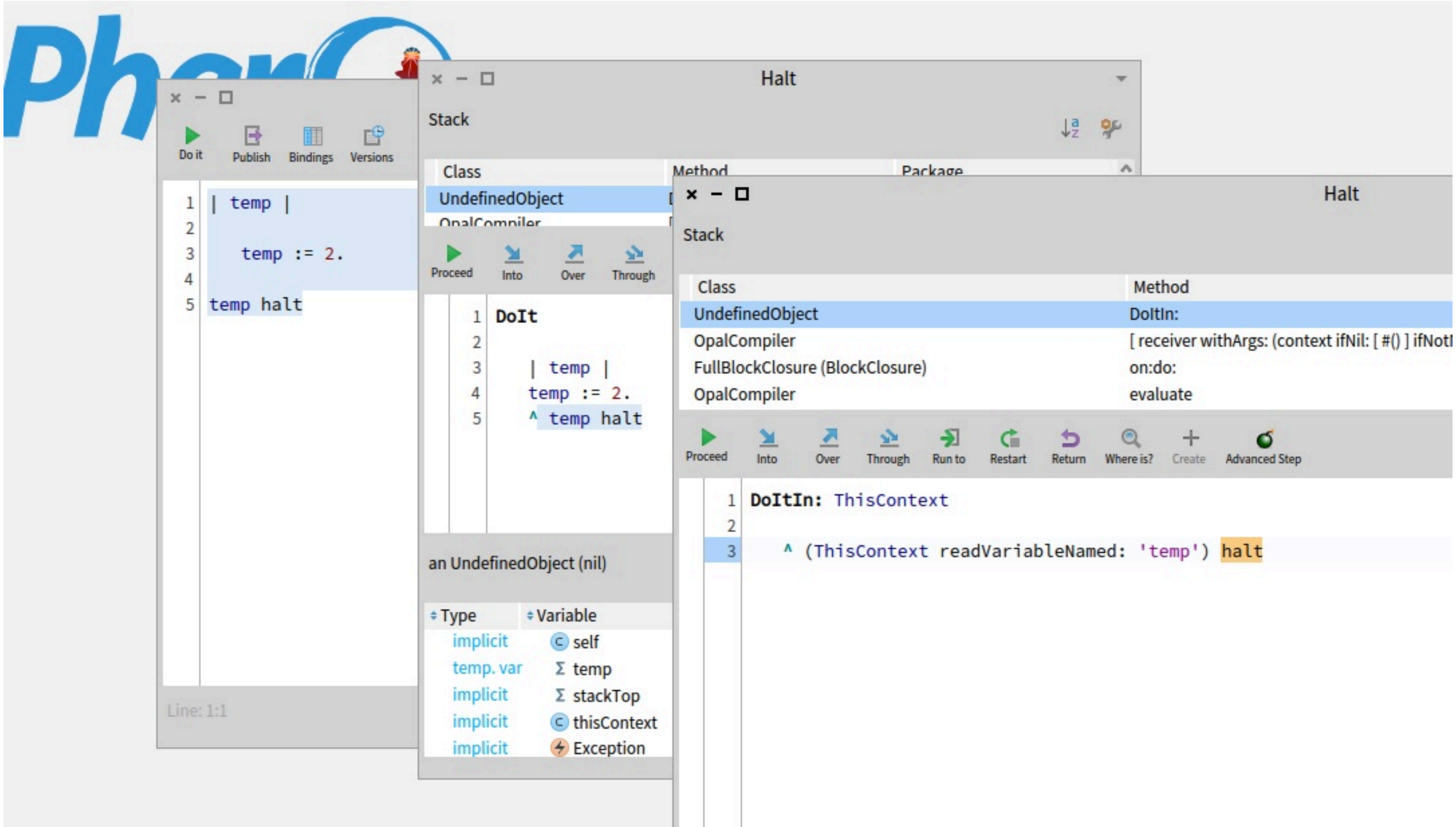
Improved DoIt

(work by Denis Kudriashov)

- No AST transformation
- No pretty printing
- No method header

- Shows the power of First Class Variables

Pharo10



```
| temp |

  temp := 2.

temp halt
```

Class	Method	Package
UndefinedObject		
OpalCompiler		

```
DoIt

    | temp |
    temp := 2.
    ^ temp halt
```

an UndefinedObject (nil)

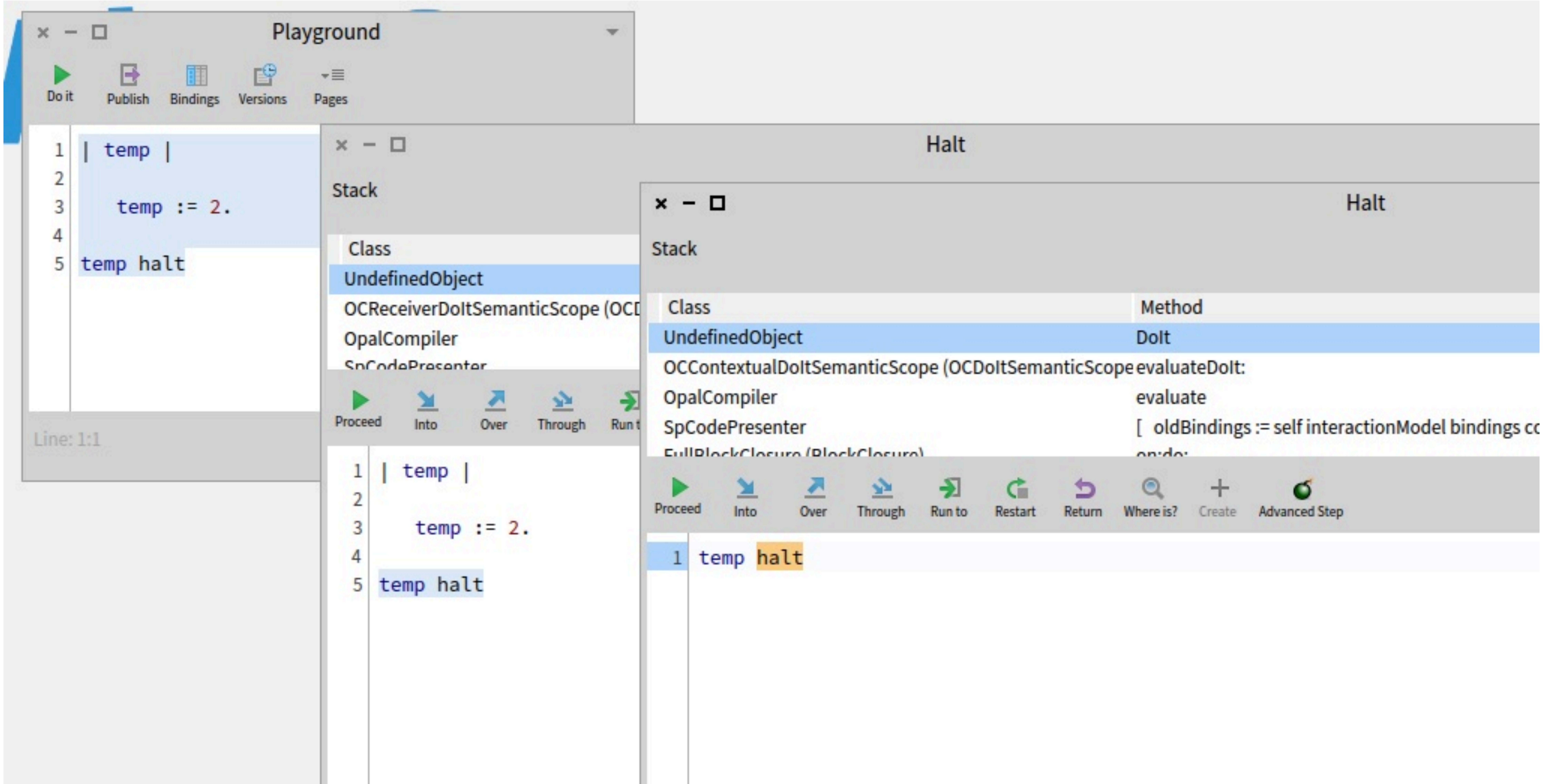
Type	Variable
implicit	self
temp. var	temp
implicit	stackTop
implicit	thisContext
implicit	Exception

Class	Method
UndefinedObject	DoItIn:
OpalCompiler	[receiver withArgs: (context ifNil: [#()] ifNotI
FullBlockClosure (BlockClosure)	on:do:
OpalCompiler	evaluate

```
DoItIn: ThisContext

    ^ (ThisContext readVariableNamed: 'temp') halt
```

Pharo11



```
| temp |

  temp := 2.

temp halt
```

Class
UndefinedObject
OCReceiverDoItSemanticScope (OCD
OpalCompiler
SpCodePresenter

```
| temp |

  temp := 2.

temp halt
```

Class	Method
UndefinedObject	DoIt
OCContextualDoItSemanticScope (OCDoItSemanticScope	evaluateDoIt:
OpalCompiler	evaluate
SpCodePresenter	[oldBindings := self interactionModel bindings co
FullBlockClosure (BlockClosure)	on:do:

```
temp halt
```