



HAXE develop

**LET HAXEDEVVELOP
DO MORE FOR YOU**

WHO AM I AND WTF IS THIS ABOUT?

Héctor Espeso.

Currently working as senior developer in Luxembourg.

<https://github.com/Neverbirth/flashdevelop>

Didn't you read? This is about HaxeDevelop!

TRYING TO IMPROVE WHAT IS THERE



During the day Philippe kicks his team to write more unit tests, and at night he contemplates FlashDevelop's 0% coverage. After 10 years building throw-away marketing websites he moved to Haxe and good engineering, and he doesn't want to come back.

TEST NAME	FILE NAME	DURATION
ASCompletion.Completion.ASCompleteTests+DisambiguateComa.VariableType	ASCompletion.Tests.dll	78 ms
ASCompletion.Completion.ASCompleteTests+DisambiguateComa.GenericTypeParameterInClass	ASCompletion.Tests.dll	0 ms
ASCompletion.Completion.ASGeneratorTests+GetBodyStart.BracketsInGenericConstraint	ASCompletion.Tests.dll	30 ms
ASCompletion.Completion.ASGeneratorTests+GetBodyStart.MultiByteCharacters	ASCompletion.Tests.dll	31 ms
ASCompletion.Model.ASFileParserTests+Haxe.ParseFile_FunctionTypesWithSubTypes	ASCompletion.Tests.dll	3 ms
ASCompletion.Completion.ASCompleteTests+DisambiguateComa.GenericTypeParameterConstrai	ASCompletion.Tests.dll	0 ms
ASCompletion.Model.ASFileParserTests+As3.ParseFile_SimpleClass	ASCompletion.Tests.dll	2 ms
ASCompletion.Model.ASFileParserTests+Haxe.ParseFile_MetadataClass	ASCompletion.Tests.dll	8 ms
ASCompletion.Completion.ASGeneratorTests+GetBodyStart.EndOnSameDeclarationLine	ASCompletion.Tests.dll	40 ms
ASCompletion.Model.ASFileParserTests+As3.ParseFile_CompletionError	ASCompletion.Tests.dll	3 ms
ASCompletion.Completion.ASCompleteTests+DisambiguateComa.HaxeAnonymousStructureOptic	ASCompletion.Tests.dll	30 ms
ASCompletion.Completion.ASCompleteTests+DisambiguateComa.HaxeFunctionOptionalArgumen	ASCompletion.Tests.dll	30 ms
ASCompletion.Completion.ASCompleteTests+DisambiguateComa.ObjectProperty	ASCompletion.Tests.dll	82 ms
ASCompletion.Completion.ASCompleteTests+DisambiguateComa.HaxeTernaryOperatorTruePart	ASCompletion.Tests.dll	30 ms
ASCompletion.Model.ASFileParserTests+Haxe.ParseFile_Comments	ASCompletion.Tests.dll	2 ms
ASCompletion.Completion.ASGeneratorTests+GetBodyStart.EndOnSameLine	ASCompletion.Tests.dll	31 ms
ASCompletion.Model.ASFileParserTests+As3.ParseFile_OverrideFunction	ASCompletion.Tests.dll	2 ms
ASCompletion.Completion.ASCompleteTests+DisambiguateComa.ObjectParameter	ASCompletion.Tests.dll	167 ms
ASCompletion.Completion.ASCompleteTests+DisambiguateComa.HaxeTernaryOperatorFalsePart	ASCompletion.Tests.dll	32 ms
ASCompletion.Completion.ASCompleteTests+DisambiguateComa.FunctionCallSimple	ASCompletion.Tests.dll	33 ms

NEW FEAT. 1: COMPLETION LIST



108
109

}

InGameKeyCommand.as
ITest.as
ModelLoadCommand.as
Test.as
TitleScr
config
TetrisC

public var commandMap : IEventCommandMap

commandMap
configure
contextView
controlManager
initialize
injector
mapDependencies
mapMediators
mapModels
mapServices

OutlineBookmarks

Breakpoints

In All Columns

Enable	Path	File	Line	Co
<input checked="" type="checkbox"/>		config\TetrisConfig.as	TetrisConfig.as	105
<input checked="" type="checkbox"/>		config\TetrisConfig.as	TetrisConfig.as	74
<input checked="" type="checkbox"/>		mediators\InGameViewMediator.as	InGameViewMediator.as	41

ResultsOutputTasksLogsLayoutsBreakpoints

Watch

Name	Value
<div><div>+</div><div>this.con</div><div><div>Add</div><div><div>configure</div><div>contextView</div><div>controlManager</div></div></div></div>	<div>public var contextView : ContextView</div>

ResultsOutputTasksLogsLayoutsBreakpointsWatchStackThreadsLocals

```
94     private function mapServices():void
95     {
96         injector.map(StageResizeService).asSingleton(true);
97         injector.map(ITetrisService).toType(TetrisService);
98     }
99
100    private function initialize():void
101    {
102        controlManager.setupEvents(contextView.view.stage);
103
104        contextView.view.addChild(tetrisStage);
105        tetrisStage.state = new TitleScreenView();
106    }
107 }
108
109 }
```

Immediate

p t

- TetrisConfig
- TetrisModel
- TetrisService
- tetrisStage**
- TetrisStage
- TetrisStageMediator
- this
- throw
- TitleScreenView
- TitleScreenViewMediator

private var tetrisStage : TetrisStage

Stack

Filter:

LIVE DEMO

NEW FEAT. 2: HELP TIP



```
a = data.copy();
in 0 .
isRow =
(y in
var i
if (d
{
i
b
}
(isRow
concat
copy
filter
indexOf
insert
iterator
join
lastIndexOf
length
map
```

public function copy (Void) : Array<com.mediamonks.data.enumeration>

Returns a shallow copy of `this` Array.
The elements are not copied and retain their identity, so
`a == a.copy()` is true for any valid `i`. However,
`a == a.copy()` is always false.

?

```
trace("empty row at: " + x);
for (y in new ReverseIterator(gridWidth-1, 0))
{
```

```
static public const ADDED_TO_STAGE : String = "addedToStage"
in flash.events.Event
```

The Event.ADDED_TO_STAGE constant defines the value of the type property of an addedToStage event object.

This event has the following properties: Property Value bubbles false cancelable false; there is no default behavior to cancel. currentTarget The object that is actively processing the Event object with an event listener. target The DisplayObject instance being added to the on stage display list, either directly or through the addition of a sub tree in which the DisplayObject instance is contained. ...

package haxe.macro

typedef **TypedExpr**

defined in **haxe.macro.Type**

Available on all platforms

Properties

t:Type

pos:Position

expr:TypedExprDef

```
static public const ADDED_TO_STAGE : String = "addedToStage"
in flash.events.Event
```

The `Event.ADDED_TO_STAGE` constant defines the value of the `type` property of an `addedToStage` event object.

This event has the following properties:

Property	Value
<code>bubbles</code>	<code>false</code>
<code>cancelable</code>	<code>false</code> ; there is no default behavior to cancel.
<code>currentTarget</code>	The object that is actively processing the Event object with an event listener.
<code>target</code>	The <code>DisplayObject</code> instance being added to the on stage display list, either directly or through the addition of a sub tree in which the <code>DisplayObject</code> instance is contained. If the <code>DisplayObject</code> instance is being directly added, the added event occurs before this event.

```
public function insert (pos:Int, x:T) : Void
```

Inserts the element `x` at the position `pos`.

This operation modifies `this` Array in place.

The offset is calculated like so:

- If `pos` exceeds `this.length`, the offset is `this.length`.
- If `pos` is negative, the offset is calculated from the end of `this` Array, i.e. `this.length + pos`. If this yields a negative value, the offset is 0.
- Otherwise, the offset is `pos`.

If the resulting offset does not exceed `this.length`, all elements from and including that offset to the end of `this` Array are moved one index ahead.


```
public class flash.display.Sprite
```

The Sprite class is a basic display list building block: a display list node that can display graphics and can also contain children.

A Sprite object is similar to a movie clip, but does not have a timeline. Sprite is an appropriate base class for objects that do not require timelines. For example, Sprite would be a logical base class for user interface (UI) components that typically do not use the timeline.

The Sprite class is new in ActionScript 3.0. It provides an alternative to the functionality of the MovieClip class, which retains all the functionality of previous ActionScript releases to provide backward compatibility.

EXAMPLE:

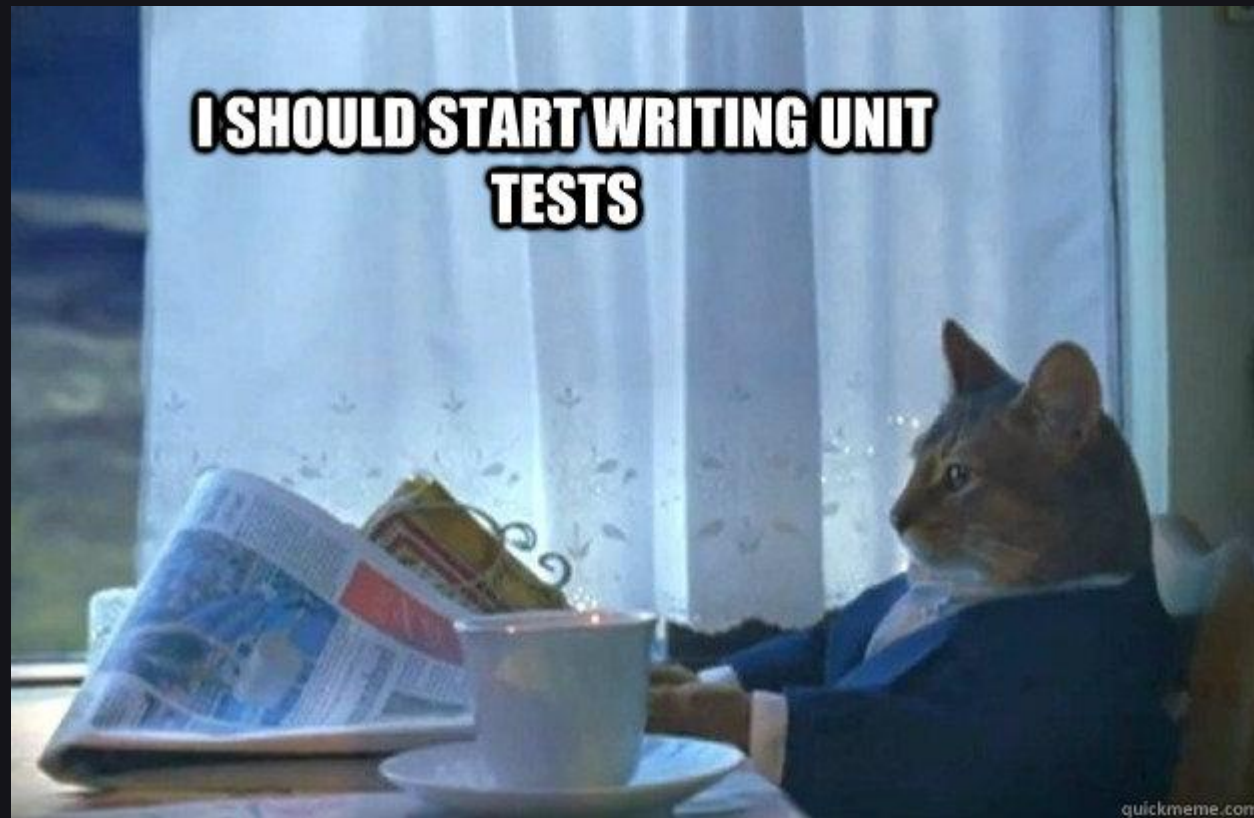
The following example uses the SpriteExample class to draw an orange square on the stage, and then dispatches events whenever the user clicks or drags the square. This task is accomplished by performing the following steps:

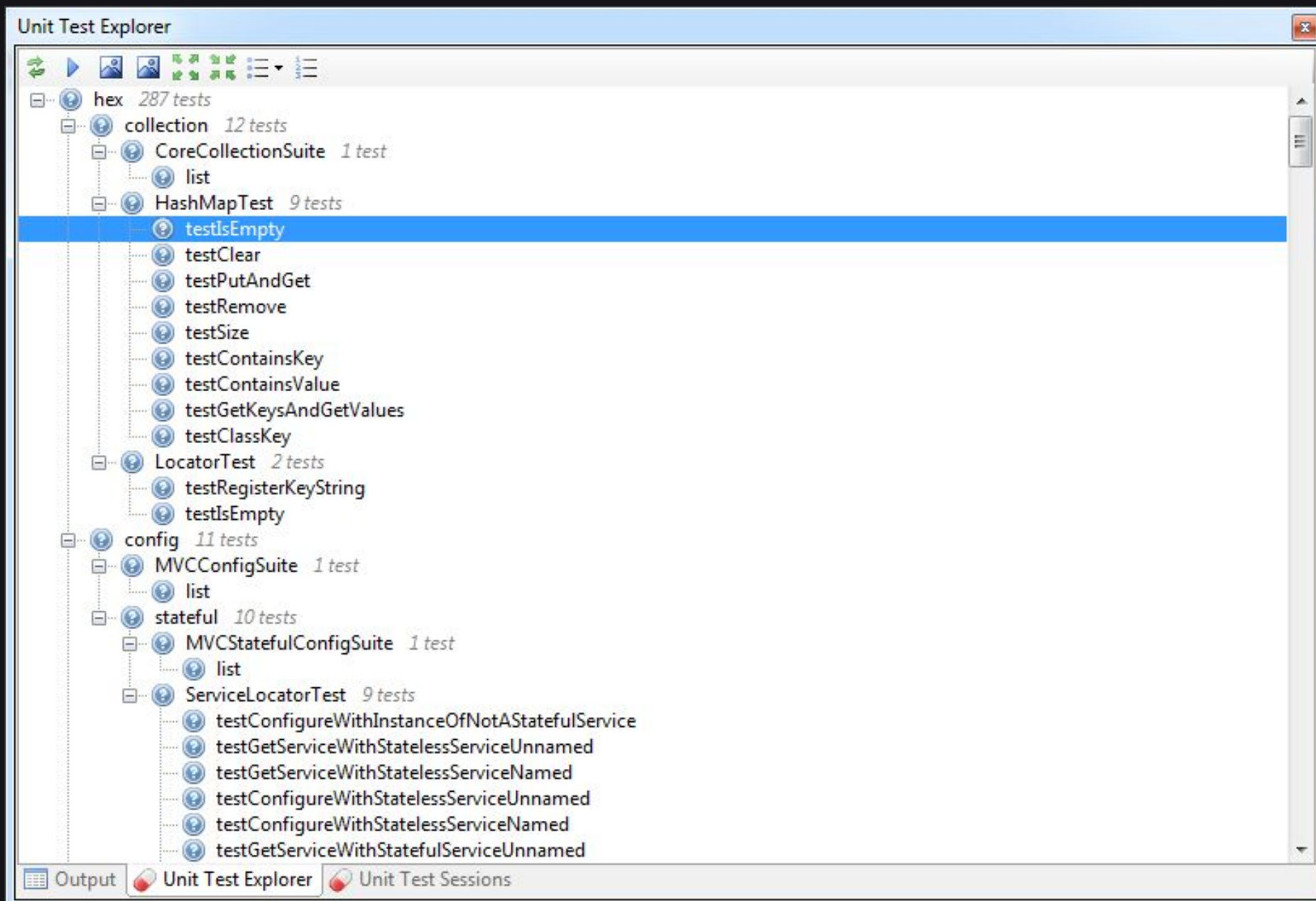
1. Declare the `size` property (100 x 100 pixels) and the background color (orange) for later use in drawing the square.
2. The constructor then creates a new child Sprite object and uses it to add two event listeners and their associated methods: `mouseDownHandler()` and `mouseUpHandler()`.
3. The child Sprite object is then passed to the `draw()` method, which draws the orange square.
4. The child is then placed on the display list by a call to the `addChild()` method.
5. The event listeners work as follows:
 - o `mouseDownHandler()`: when the user clicks the Sprite object, this method adds a `MouseMove` event listener, the `mouseMoveHandler()` method, which processes the mouse moves. Then the `startDrag()` method is called, which allows the Sprite object to be dragged.
 - o `mouseUpHandler()`: when the mouse button is released, the `MouseMove` event listener is removed and the `stopDrag()` method is called, which freezes the orange square in place.
 - o `mouseMoveHandler`: as long as the left mouse button is being held down, this method instructs the player to continuously redraw the orange square.

Note: Each of the event listener methods declares a local `sprite` variable, which is assigned the `target` property of the event.

```
package {  
    import flash.display.Sprite;  
    import flash.events.*;
```

NEW FEAT. 3: UNIT TESTING





Unit Test Sessions



245 243 1 1 0

hex	244 tests	Failed	263ms
config	9 tests	Success	4ms
control	56 tests	Failed	131ms
async	11 tests	Success	4ms
command	8 tests	Success	9ms
guard	2 tests	Success	1ms
FrontControllerTest	3 tests	Success	1ms
macro	22 tests	Failed	113ms
MacroExecutorTest	10 tests	Success	109ms
MacroTest	12 tests	Failed	4ms
testIsAtomic		Success	0ms
testParallelAndSequenceModes		Success	0ms
testPreExecute		Success	1ms
testAddCommand		Success	0ms
testAddMapping		Success	0ms
testAddMapping2		Failed	0ms
testExecuteEmptyMacro		Success	1ms
testExecuteTriggersHandleComple		Success	1ms
testWithGuardsApproved		Success	0ms
testWithGuardsRefused		Success	0ms
testParallelMode		Success	1ms
testSequenceMode		Success	0ms
payload	10 tests	Success	3ms
event	46 tests	Success	13ms
module	1 test	Success	0ms
service	36 tests	Success	2ms
viewhelper	4 tests	Success	2ms
collection	11 tests	Success	4ms
core	3 tests	Success	2ms
domain	3 tests	Success	0ms
inject	75 tests	Success	105ms
<Default Package>	1 test	Ignored	0ms



NEW FEAT. 4: BUILD PIPELINE



ExMachina (Haxe) Properties

Output SDK Classpaths Build Compiler Options

Pre-Build Command Line

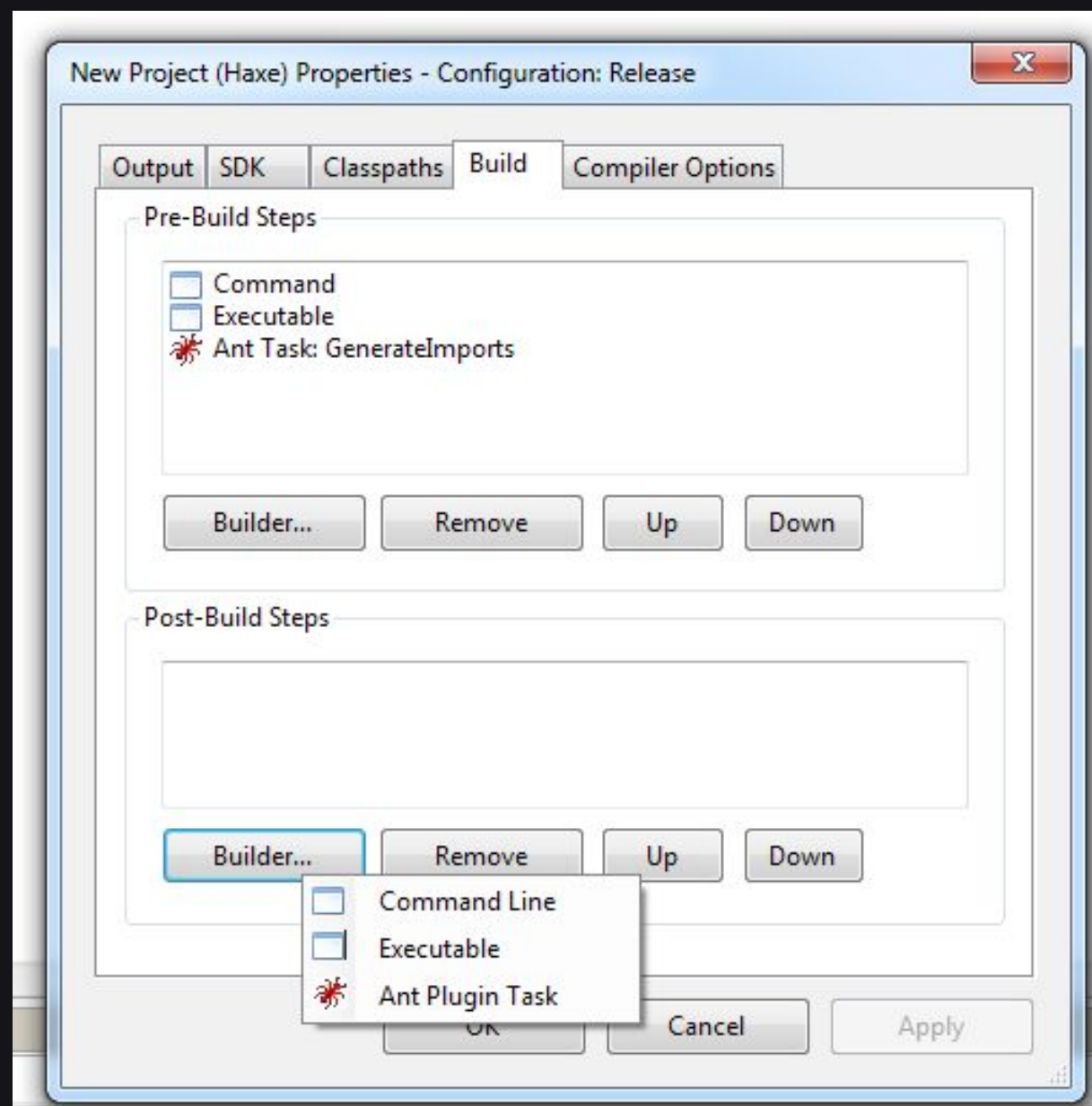
Builder...

Post-Build Command Line

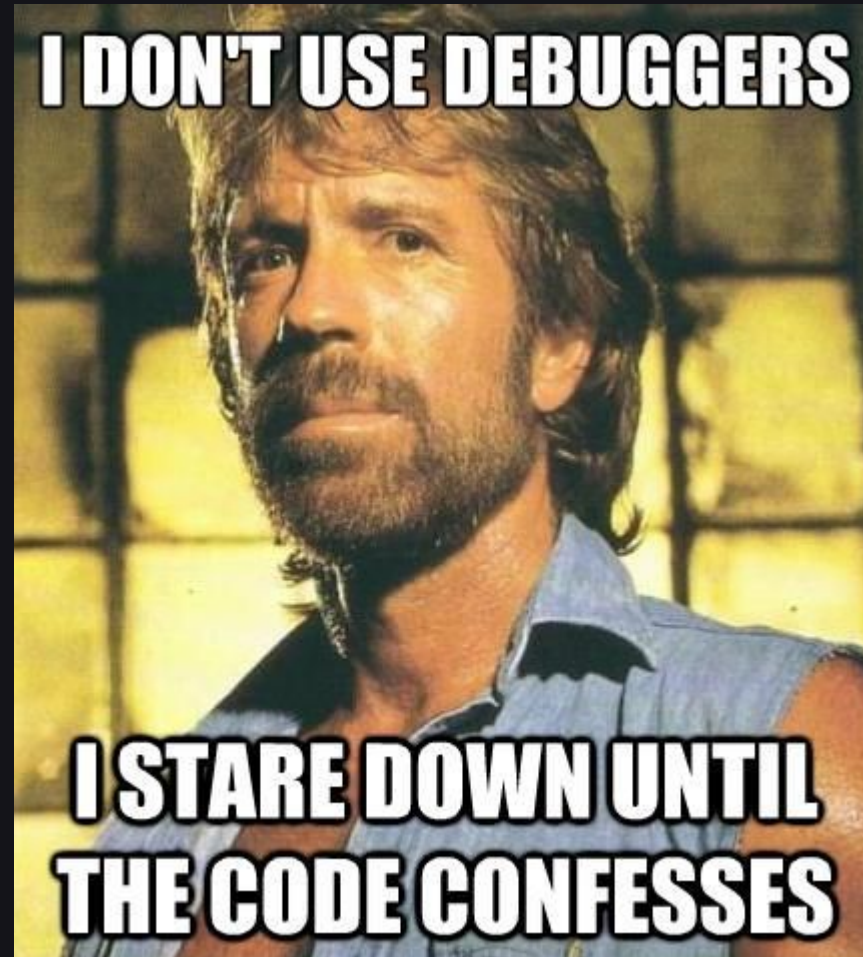
☐ Always execute

Builder...

OK Cancel Apply



NEW FEAT. 4: DEBUGGER ABSTRACTION



HXJS !

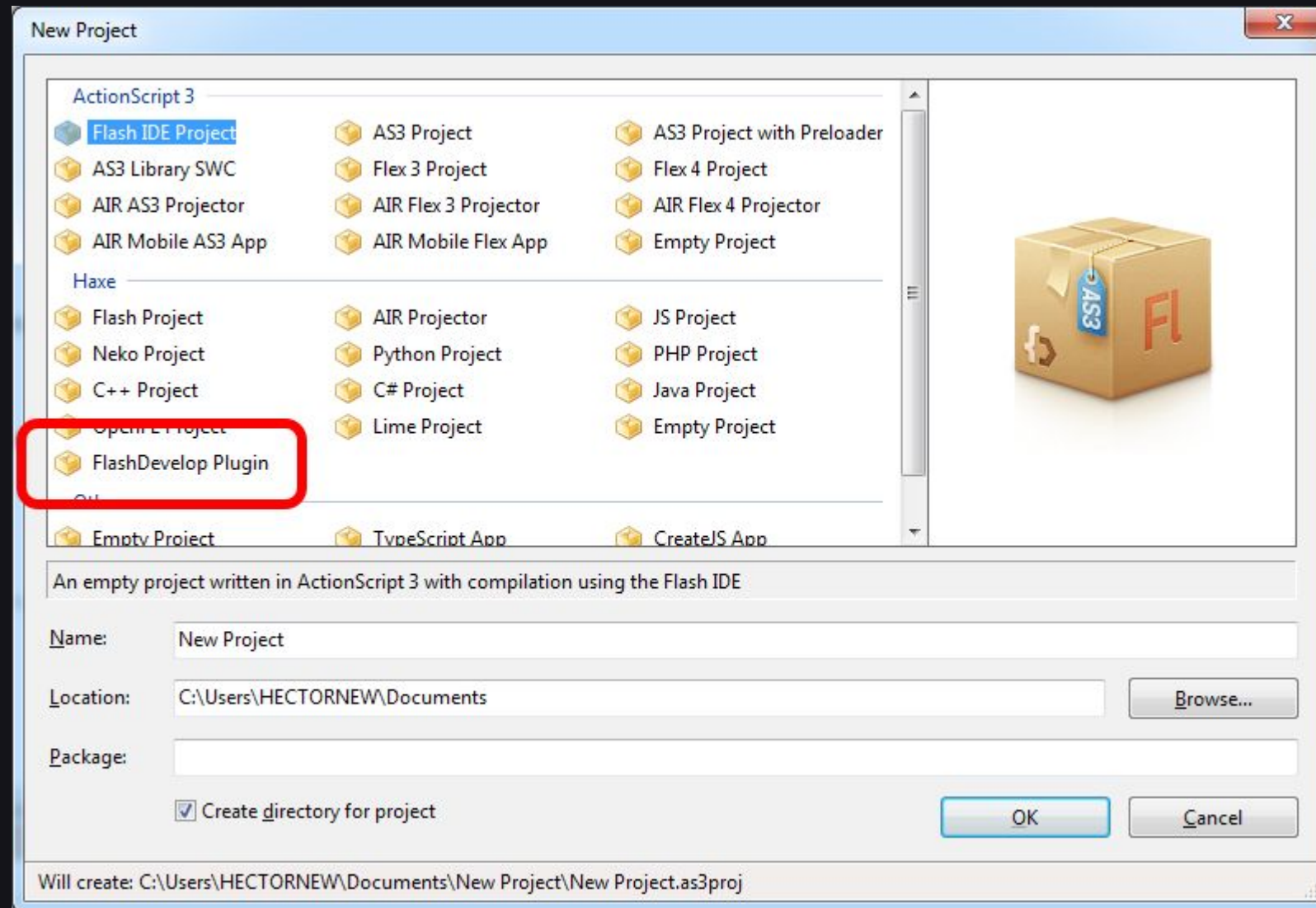
LIVE DEMO

Current known problems

- Still some Haxe generation flaws.
- Only Chrome planned (work-arounds).
- No work threads support planned (but can be done).
- No developer console (minor solution planned).
- Some old debugger parts not 100 % abstracted yet (eg.: Live Data Tip)

HXCS

Preliminar state



HXCPP

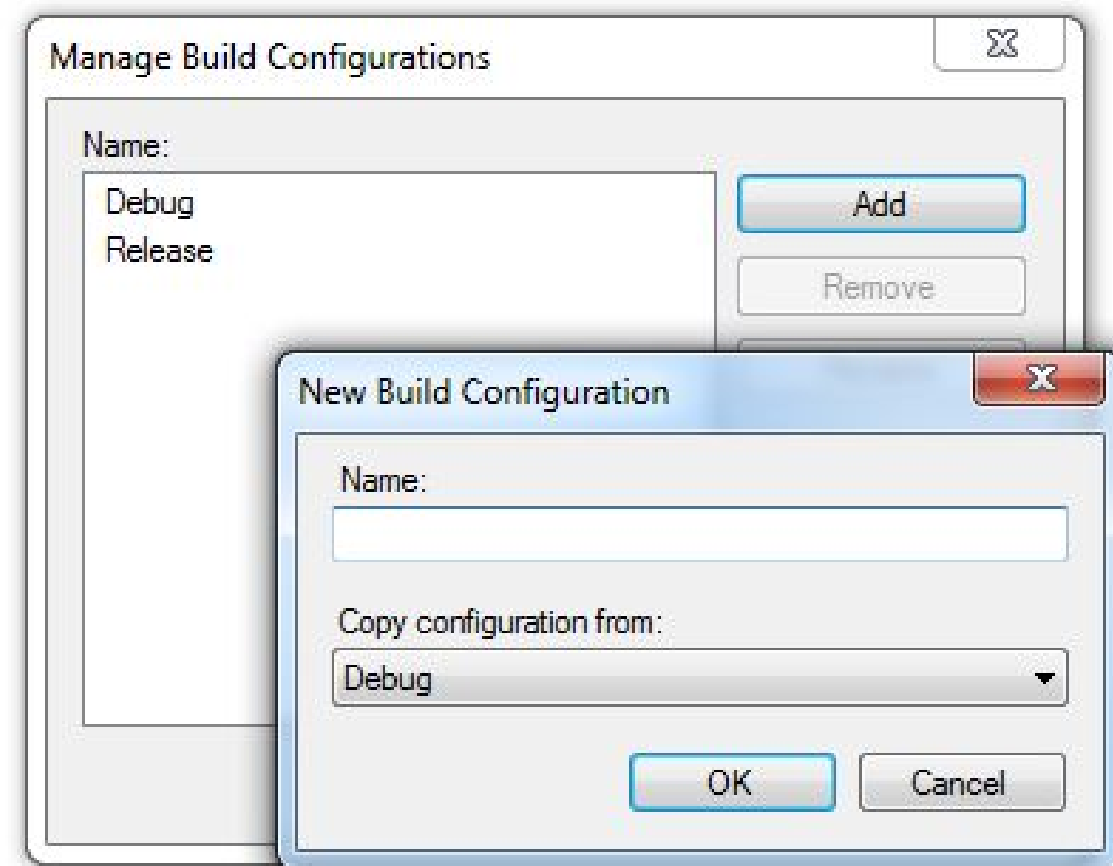
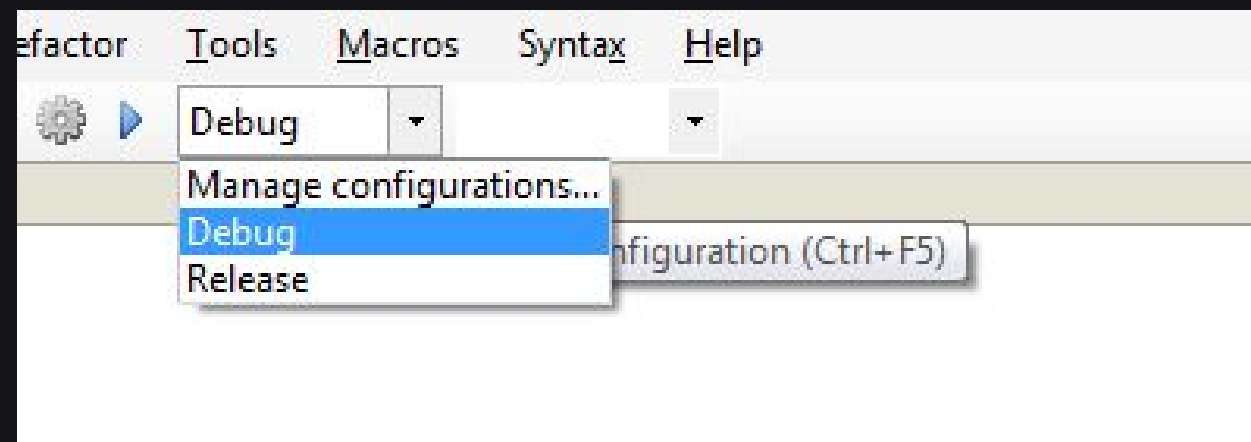
Not yet. Sorry! :(

But I'm committed to working on it!

NEW FEAT. 5: BUILD CONFIGURATIONS

EXPERIMENTAL!!





New Project (Haxe) Properties - Configuration: Release

Output SDK Classpaths Build Compiler Options

Platform

Flash Player 12.0

Compilation Target: Application

General

Output file: bin\NewProject.swf Browse...

Dimensions: 800 x 600 px

Background color: #FFFFFF

Framerate: 30 fps

Test Project

Play: FlashViewer Default

OK Cancel Apply

MORE STUFF COMING



<> Code

Issues 303

Pull requests 7

Wiki

Pulse

Graphs

Filters ▾

is:pr is:open

Labels

Milestones

New pull request

☐ 7 Open ✓ 537 Closed

Author ▾

Labels ▾

Milestones ▾

Assignee ▾

Sort ▾

☐  **Fixes generate static variable and static function**
#1239 opened 4 days ago by SlavaRa 2☐  **Modifying a bit weighting of completion list SmartMatch**
#1173 opened on 10 Apr by elsassph 0☐  **ASCompletion.Tests: clean up some redundanices**
#1055 opened on 29 Jan by Gama11 12☐  **Decoupled CompletionList and MethodCallTip from Scintilla.**
#1026 opened on 11 Jan by Neverbirth 18☐  **Modifier order**
#997 opened on 12 Dec 2015 by wise0704 27☐  **Inline renaming support**
#952 opened on 11 Nov 2015 by wise0704 20☐  **Improved AddClosingBraces feature**
#947 opened on 28 Oct 2015 by wise0704 42


```

461
462 /**
463  * Helper function that tweens this sound's volume.
464  *
465  * @param Duration The amount of time the fade-in operation should take.
466  * @param From The volume to tween from, 0 by default.
467  * @param To The volume to tween to, 1 by default.
468  */
469 public inline function fadeIn(Duration:Float = 1, From:Float = 0, To:Float = 1, ?onComplete:FlxTween->Void = null):FlxSound
470 {
471     if (!playing)
472         play();
473     FlxTween.num(From, To, Duration, { onComplete:onComplete }, volumeTween);
474     return this;
475 }

```

Results

0 Errors 81 Warnings 0 Messages Filter:

Line	Description	File	Path
FlxSound.hx			
455	characters 96-100 : Warning: Parameter 'onComplete' is marked as optional with '?' and has a default value of 'null', which is redundant	FlxSound.hx	C:\Haxe
469	characters 110-114 : Warning: Parameter 'onComplete' is marked as optional with '?' and has a default value of 'null', which is redundant	FlxSound.hx	C:\Haxe
FlxAnimationController.hx			
632	character 0 : Warning: Parameter 'name' should be marked as optional with '?' instead of using a null default value	FlxAnimationController.hx	C:\Haxe
FlxAtlas.hx			
119	character 0 : Warning: Parameter 'minSize' should be marked as optional with '?' instead of using a null default value	FlxAtlas.hx	C:\Haxe
119	character 0 : Warning: Parameter 'maxSize' should be marked as optional with '?' instead of using a null default value	FlxAtlas.hx	C:\Haxe
253	character 0 : Warning: Parameter 'firstGrandChildData' should be marked as optional with '?' instead of using a null default value	FlxAtlas.hx	C:\Haxe
253	character 0 : Warning: Parameter 'firstGrandChildKey' should be marked as optional with '?' instead of using a null default value	FlxAtlas.hx	C:\Haxe
581	character 0 : Warning: Parameter 'tileBorder' should be marked as optional with '?' instead of using a null default value	FlxAtlas.hx	C:\Haxe
581	character 0 : Warning: Parameter 'region' should be marked as optional with '?' instead of using a null default value	FlxAtlas.hx	C:\Haxe
FlxNode.hx			

FUTURE



SUPPORT THE PROJECT !



THANKS

Mika Palmu

Philippe Elsas

Gama11

Slavara

Daniel Jeong

Many others

Will your name appear the next
time?

QUESTIONS

Don't hesitate to contact me for further info or suggestions:
neverbirth@gmail.com

WHAT DO YOU LOOK AT? NOTHING HERE