

...the Open Source Harmony

Nicolas Cannasse - Spark Europe

MTASC?

What is MTASC ?
 An AS2 commandline compiler

What is it doing?...compiling

What is it not doing?
 ...help you to be rich



Past

• Before: SWF decompiler, obfuscator

• December 2003 : ASML

April 2004 : Motion Types

October 2004: MTASC

Give back to the community



RoadMap

Started on 20 October 2004

Beta 1 on 25 October 2004

Version 1.0 on 26 January 2005

(more versions following)

Version 1.10 on 14 Sept 2005

During this time...

The FAME platform:

use MTASC together with Eclipse...

a Full Featured IDE

May 2005 : OSFlash.org !!!

an OS community for Flash



A sample Using MTASC

c:\work\Test.as :

```
class Test {
    static function main( mc : MovieClip ) {
        mc.createTextField("tf",0,0,300,300);
        mc.tf.text = "Hello World !";
    }
}
```

Compile using:

```
mtasc -swf test.swf -main -cp c:\work Test.as
```

MTASC -trace Feature

 Redirect trace() calls in your application mtasc -trace my.Class.myTrace ...

Add debug informations :

```
trace("something") =>
my.Class.myTrace
   ("something","Test::foo","Test.as",4);
```

Remove traces easily

```
mtasc -trace no ...
```

The Present

MTASC is stable : try it !

The fastest AS2 compiler out there

Make your everyday life Better

• 1.11 might be last version?

The Future

New Challenges :

ActionScript 3?

AVM2: new better virtual machine

Why MTASC is successful?

It's all about innovation



The haXe Programming Language

 A programming language for the web web: HTML/CSS/JS/Flash/PHP/Perl/SQL...

What is haXe?

a programming language with a commandline compiler

powerful features

• The Future... right now?

http://haxe.org

haXe is Multi-Platform

 Target Flash / SWF : you can use haXe for doing your Flash work

 Target JavaScript : you can use haXe to work with Browser DHTML/AJAX

Target Neko :

you can use haXe to generate Dynamic Webpages ...and much more

haXe is Powerful

Has Classes

All the OO stuff you like

And new great things such as Generics, Iterators

Has Type Inference

Don't write types, still your code is strictly typed!

Has Dynamics

When you want to do untyped things, just say it!

haXe Generics

```
native class Array<T> {
    function new() : Void;
    function get( index : Int ) : T;
    function set( index : Int, value : T) : Void;
    //...
}
//...
var a : Array<String> = "a:b:c:d".split(":");
```

haXe Type Inference

```
var x = new MyClass(p1,p2,p3);
var x = o.someFunction();
function isempty(x) {
    return( x == "" );
```

haXe and Flash

haXe can compile to SWF

For Flash Player 6, 7, 8

Later: for Flash Player 8.5 / AVM2

- It means you can use it (almost) right now!
 no need to wait for the Player being installed by users
- haXe can use all Flash APIs

haXe an JavaScript

- haXe can « generate » to JavaScript
- It helps you writing portable JS code
- You can access DHTML Browser APIs and they're strictly typed!

haXe and Neko

Neko?

A dynamicly typed intermediate language
With a fast embeddable Virtual Machine: NekoVM

- Can run on Apache (mod_neko)
- Can run using commandline
- Can be embedded into your EXE

haXe and Neko

- haXe can generate to Neko
- You can power your websites using haXe
- You can use all Neko APIs

```
MySQL
```

System (files, directories, ...)

Regexp...

haXe: all Together

 haXe is providing a Common way to do things

You don't have to change language all the time You can reuse your code... everywhere

The haxe Standard library IS standard
 The same for Flash/JS/Neko

Then there is specific APIs for each platform

haXe current Status

Alpha 1

lexer, parser, typer: more than half of the work only started a few days ago

- Will soon target Flash Player
- Look at http://haxe.org

haXe Community

How can I help?

Try to use haXe, give feeback, bug reports
Blog and talk about it
Write libraries

The haxe community process

You can submit features / libraries for approval
They might be integrated in the haXe distribution

