Small Web Format ~ FLASH

mini.swf
file:///D:/mini
Hello World!

```
     0 1 2 3 4 5 6 7 8 9 A B C D E F

00:  .F .W .S 07 8C 00 00 00 78 00 05 5F 00 00 0F A0
10:  00 00 0C 01 00 3F 03 6D 00 00 00 88 2C 00 04 00
20:  .m .e .s .s .a .g .e 00 .c .r .e .a .t .e .T .e
30:  .x .t .F .i .e .l .d 00 .t .e .x .t 00 .H .e .l
40:  .l .o .  .W .o .r .l .d .! 00 96 2A 00 07 32 00
50:  00 00 07 64 00 00 00 06 00 00 00 00 00 00 00 00
60:  06 00 00 00 00 00 00 00 07 01 00 00 00 08 00
70:  07 06 00 00 00 08 01 3D 17 96 02 00 08 00 1C 96
80:  04 00 08 02 08 03 4F 00 40 00 00 00
```

```
movie 'mini.swf' {
 frame 1 {
  createTextField('message', 1, 0, 0, 100, 50);
  message.text = 'Hello World!';
 }
}
```

	FIELDS	VALUES
HEADER	signature	FWS
	version	7
	file size	140
	rect nbits	15 *
	xmin, xmax, ymin, ymax	0 550 0 400 *
	frame rate	12.0
	frame count	1
ACTION	extended length	0x63 *
	code	12 DoAction
	length	109
CONSTANT POOL	action id	0x88 ActionConstantPool
	length	0x2c
	count	4
	message createTextField text Hello World!	
PUSH	action id	0x96 ActionPush
	length	0x2a
params:	50 Int 100 Int 0.0 Double 0.0 Double 1 Int	
	0 Constant8 6 Int 1 Constant8	
CALL FUNCTION	action id	0x3d ActionCallFunction
POP	action id	0x17 ActionPop
PUSH	action id	0x96 ActionPush
	length	2
param:	0 Constant8	
GETVARIABLE	action id	0x1c ActionGetVariable
PUSH	action id	0x96 ActionPush
	length	4
	2 Constant8 3 Constant8	
SETMEMBER	action id	0x4f ActionSetMember
END	action id	0x00 ActionEndFlag
SHOW FRAME	length / code *	0 / 1 ShowFrame
END	length / code *	0 / 0 End

*NON-ALIGNED ENCODING

Java Class

~$ java mini
~$

```
     0 1 2 3 4 5 6 7 8 9 A B C D E F

000:  CA FE BA BE 00 03 00 2D 00 08 07 00 02 01 00 04
010:  .m .i .n .i 07 00 04 01 00 10 .j .a .v .a ./ .l
020:  .a .n .g ./ .O .b .j .e .c .t 01 00 04 .m .a .i
030:  .n 01 00 04 .C .o .d .e 01 00 16 .( .[ .L .j .a
040:  .v .a ./ .l .a .n .g ./ .S .t .r .i .n .g .; .)
050:  .V 00 01 00 01 00 03 00 00 00 00 00 01 00 09 00
060:  05 00 07 00 01 00 06 00 00 00 0D 00 00 00 01 00
070:  00 00 01 B1 00 00 00 00 00 00 00 00
```
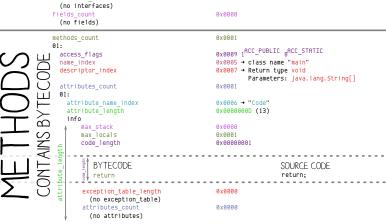
```
public class mini {
    public static void main(String[])
    {
    }
}
```

	FIELDS	VALUES
	magic	CAFEBABE
	minor_version	0x0003
	major_version	0x002D 45.3 → Java 1.0.2
	constant_pool_count	0x0008
CONSTANT POOL DATA USED BY THE CODE	00: <always empty>	
	01: class reference (name:#02)	reference to the "mini" class
	02: "mini" UTF-8 literal (length:4)	
	03: class reference (name:#04)	reference to the "java.lang.Object" class
	04: "java/lang/Object" UTF-8 literal (length:16)	
	05: "main" UTF-8 literal (length:4)	a literal containing "main" (used as method name)
	06: "Code" UTF-8 literal (length:4)	a literal containing "Code" (used as attribute name)
	07: "([Ljava/lang/String;)V" UTF-8 literal (length:22)	a literal which means, as a method type: takes an array of "java.lang.String" as parameter returns "void"
	access_flags	0x0001 ACC_PUBLIC
	this_class	0x0001 → "mini"
	super_class	0x0003 → "java.lang.Object"
	interfaces_count (no interfaces)	0x0000
	fields_count (no fields)	0x0000
METHODS CONTAINS BYTECODE	methods_count	0x0001
	01: access_flags	0x0009 1 ACC_PUBLIC 8 ACC_STATIC
	name_index	0x0005 → class name "main"
	descriptor_index	0x0007 → Return type void Parameters: java.lang.String[]
	attributes_count	0x0001
	01: attribute_name_index	0x0006 → "Code"
	attribute_length	0x0000000D (13)
	info max_stack	0x0000
	max_locals	0x0001
	code_length	0x00000001
	BYTECODE return	SOURCE CODE return;
	exception_table_length (no exception_table)	0x0000
	attributes_count (no attributes)	0x0000
	attributes_count (no attributes)	0x0000