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# Control Tags

SWF control tags used in GFx.

Tag Type	Name	SWF Version	Deprecated	Supported	Comment	GFx
0	End	1		Yes	Implemented in GFxMovieDefImpl.Read	1.0
1	ShowFrame	1		Yes		

43	FrameLabel	3		Yes		1.0
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# Global Functions

SWF global functions used in GFx.

Opcode	Name	SWF Version	Deprecated	Supported	Comment	GFx
0x06	gotoAndPlay	2		Yes	0x81 - goto 0x06 - ActionPlay / Sprite Builtins implements	1.0
0x07	gotoAndStop	2		Yes	0x81 - goto 0x07 - ActionStop / Sprite Builtins implements	1.0

0x30	random	4	5	Yes	0x30 - ActionRandomNumber	40.0725   S40.andom
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scroll

4

No



**AS2 Action Ops**

0x30	ActionRandomNumber	4		Yes		1.0
0x31	ActionMBStringLength	4		Yes		1.0
0x32	ActionCharToAscii	4		Yes		1.0
0x33	ActionAsciiToChar	4		Yes		1.0
0x34	ActionGetTime	4		Yes		1.0
0x35	ActionMBStringExtract	4		Yes		1.0
0x36	ActionMBCharToAscii	4		Partial	SWF 6+ ok, some issues for SWF 5	
0x37	ActionMBAsciiToChar	4		Yes		1.0
0x3A	ActionDelete	5		Yes		1.0
0x3B	ActionDelete2	5		Yes		1.0.22

6  
6

0x66	ActionStrictEquals	6		Yes		1.0
0x67	ActionGreater	6		Yes		1.0





BitmapData	transparent	8		No		
BitmapData	width	8		Yes		2.1.55
BitmapFilter		8		Yes	For text fields only	GFx 3.0
BitmapFilter						

Button	scale9Grid	8		Yes		2.1.49
Button	_soundbuftime	6		No		
Button	tabEnabled	6		Yes		1.1.26

Camera

onActivity

6

No



ColorMatrixFilter

clone

8

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CustomActions

6

No

Date	setUTCSeconds	5		Yes		1.1.31
Date	setYear	5		Yes		1.1.31
Date	toString	5		Yes		1.1.31
Date	UTC	5		Yes		1.1.31
Date	valueOf	5		Yes		1.1.31
<b>DisplacementMapFilter</b>		<b>8</b>		<b>No</b>		
DisplacementMapFilter	alpha					



GlowFilter	strength	8		Yes		3.0.58
<b>GradientBevelFilter</b>		<b>8</b>		<b>No</b>		
GradientBevelFilter	alphas	8		No		
GradientBevelFilter	angle	8		No		
GradientBevelFilter	blurX	8		No		



LoadVars	load	6	Yes	HTTP is not supported	1.2.36
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Math	SQRT1_2	5	Yes	1.0
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getBytesTotal 798.831472 (getBytesTotal 39 m 798.83953 749.90 m 798.83) 1a1 Td 5 S 743.8 () Tj ET BT 765.2316 738.9171 Td (1.0) Tj ET 54.3969 749.9039S 743.869 w 157.7671S 743.8 ()714 0.714 S

MovieClip	getBounds	5		Yes		1.0
MovieClip	getBytesLoaded	5		Yes		1.0
MovieClip	getBytesTotal					

MovieClip	onRollOut	6		Yes		1.0
MovieClip	onRollOver	6		Yes		1.0



NetStream	time	7		Yes		3.0.63
NetStream	onSubtitle	EXT		Yes	called when a subtitle string is ready to be shown	3.0.63
NetStream	subtitleTrack	EXT		Yes	set/get current subtitles track number.	

Point	equals	8	Yes	1.2.35
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Rectangle	topLeft	8		Yes		1.2.35
Rectangle	toString	8		Yes		1.2.35

SharedObject	onStatus	6		Yes	Not supported because minimum disk space parameter for flush is ignored	3.0.58
						6





TextField	filters	8		Partial	Can set property, but cannot retrieve, since filter type information is lost during set.	3.0.58but
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TextField	tabIndex			Yes		1.1.26
TextField	_target			Yes		1.0.22
TextField	text			Yes		1.0

TextField	getLineText	EXT	Yes	See Flash 9 Documentation for details	2.0.43
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TextField	_matrix3d	EXT		Yes	Sets the complete 3D transform of the object using an array of 16 floats (4 * 4 matrix)	3.2.82
TextField	_perspfov	EXT		Yes	Allows the perspective field of view angle (in degrees) to be set on a movie clip.	3.2.84
TextField	outline	EXT		Yes	Sets the outline width of fonts	3.3.85
<b>TextFormat</b>		<b>6</b>		<b>Partial</b>		<b>GFx 2.0</b>
TextFormat	align	6		Yes		2.0.41
TextFormat	blockIndent	6		Yes		2.0.43
TextFormat	bold	6		Yes		2.0.37
TextFormat	bullet	6		Yes		



XML

load

5

Yes

XMLSocket	onXML	5		No		
XMLSocket	send	5		No		
<b>XMLUI</b>		<b>7</b>		<b>No</b>		
XMLUI	accept	7		No		
XMLUI	cancel	7		No		



# AS3 Class Functions

Flash AS3 Class functions used in GFx.

## Global Functions

Package	Function	SWF Version	Deprecated	Supported	Comment	GFx
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	setInterval		9		Yes		4.0
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	Date	getMinutes	9		Yes		4.0
	Date	getFullYear	9		Yes		4.0
	Date	getHours	9		Yes		4.0
	Date	getMilliseconds	9		Yes		4.0
	Date	getMinutes	9		Yes		4.0
	Date	getMonth	9		Yes		4.0
	Date	getSeconds	9		Yes		4.0
	Date	getTime	9		Yes		4.0
	Date	getTimezoneOffset	9		Yes		4.0
	Date	getUTCDate	9		Yes		4.0
	Date	getUTCDay	9		Yes		4.0
	Date	getUTCFullYear	9		Yes		4.0
	Date	getUTCHours	9		Yes		4.0
	Date	getUTCMilliseconds	9		Yes		4.0
	Date	getUTCMinutes	9		Yes		4.0
	Date	getUTCMonth	9		Yes		4.0

Yes

Yes

Top Level	DefinitionError		9	Yes	
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	Math	pow	9		Yes		4.0
	Math	random	9		Yes		

	Object	setPropertyIsEnumerable	9		Yes		4.0
	Object	toString	9		Yes		4.0







	XML	insertChildBefore	9		Yes		4.1
	XML	length	9		Yes		4.1
	XML	localName	9		Yes		4.1
	XML	name	9				

Yes

	XMLList	processingInstructions	9		Yes		4.1
	XMLList	propertyIsEnumerable	9		Yes		4.1
	XMLList	text	9		Yes	Yes	4.1



BitmapData

	BitmapData	floodFill	9		Yes		4.1
	BitmapData	generateFilterRect	9		Yes		4.1



9	DisplayObject	scrollRect	9	Yes	4.0
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DisplayObjectContainer	addChildIndex	9	Yes	4.0
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flash.display	GraphicsSolidFill		10		No		TBD
	GraphicsSolidFill	matrix	10		No		TBD










	Stage	focus	9		Yes		4.0
	Stage	frameRate	9		Partial	Read Only	4.0



	StageAlign	TOP_RIGHT	9		Yes		4.0
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flash.errors	IOError		9		Yes		GFx 4.0



	Event	EXIT_FRAME	10
--	-------	------------	----

Yes

4.0



								4.0	
IEventDispatcher		hasEventListener	9			Yes			

MouseEvent	MouseEvent	9	Yes	4.0
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SyncEvent

clone

9

	TouchEvent	TOUCH_END	10.1	Event	Yes		4.0
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BevelFilter					BevelFilter				
					9				
					Yes				
					4.0				

	DisplacementMapFilter	alpha	9		No		TBD
	DisplacementMapFilter	color	9		No		TBD

	GlowFilter	GlowFilter	9	Yes	4.0
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	Point	polar	9	Yes	4.0
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	Camera	loopback	9		No		TBD
	Camera	motionLevel	9		No		TBD
	Camera	motionTimeout	9		No		TBD





	FileReference	cancel	9		No		TBD
	FileReference	download	9		No		TBD

NetConnection	client	9	No	TBD
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	NetStream	attachCamera	9		No		TBD
	NetStream	close	9		Yes		4.0





	ObjectEncoding	sendToURL	9		No		TBD
--	----------------	-----------	---	--	----	--	-----

	Socket	flush	9	Yes	5.0
--	--------	-------	---	-----	-----

	URLLoader	complete	9	event	Yes		4.0
--	-----------	----------	---	-------	-----	--	-----

	URLStream	readFloat	9	No	TBD
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<hr/>	PrintJob	addPage	9	No	TBD
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StackFrame

toString



Security					LOCAL_WITH_NETWORK	9	No	TBD	



flash.text	FontStyle		9		Yes		GFx 4.0
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	TextField	getLineIndexAtPoint	9		Yes		4.0
	TextField	getLineIndexOfChar	9		Yes		4.0



BreakOpportunity	NONE	10	No	TBD
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	ElementFormat	dominantBaseline	10		No		TBD
	ElementFormat	fontDescription	10		No		TBD







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TextBlock

baselineZero

10

No

TBD

	TextLine	specifiedWidth	10		No		TBD
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	TextLineValidity	VALID	10	No	TBD
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	Keyboard	HOME	9	Yes	4.0
	Keyboard	INSERT	9	Yes	4.0

	MouseCursor	HAND	10		Yes		4.0
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	Proxy	nextNameIndex	9		No		TBD
	Proxy	nextValue	9		No		TBD
	Proxy	setProperty	9		No		TBD

XMLNode

XMLNode

appendChild

# Deprecated Functions

SWF Deprecated Classes, Functions and Properties.

## Deprecated Classes

Number

Deprecated Properties

Number