Creating a Game 4

October 13, 2013

Copyright © 2013 by World Class CAD, LLC. All Rights Reserved.

Open the Flash Program

Open the Adobe Flash Professional program and then we want to choose ActionScript 3.0 under the Create New section of the start menu.

Adobe [®] Creative Cloud [®] Flash Professional [®] CC							
늘 Open Recent Item	🖬 Create New	i Introductio					
RECOVER_Untitl1399234942.fla	ActionScript 3.0	Getting Started »					
Open	AIR for Desktop	New Features »					
	AIR for Android	Developers »					
	AIR for iOS	Designers »					
	ActionScript File						
	Flash JavaScript File	🚯 Learn					
	ActionScript 3.0 Class	Flash Developer Co					
	ActionScript 3.0 Interface	ActionScript Techr					
		CreateJS Develope					
		Game Developmen					
I Extend	Templates						
Adobe Exchange »	Advertising	Adobe Everythi					
	AIR for Android	create a					
	More	monthly now!					
Don't show again							

The Flash Program

We can see the white Flash stage in the center pane. On the left, the Tools toolbar is seen along with the Swatches window. On the right of the center stage, we have the Actions, Properties and Library window. Under the stage, we see the Timeline.



Renaming and Creating a Layer

We will rename the layer called Layer1 to Slide.

Select the New Layer icon and when it appears in the list, we will rename it to Button. Repeat the process for the Action layer.



Adding Text to the Stage

We will then add text for the game name on the Slide layer as shown to the right.



Create a Dynamic Text



On the Slide layer, we will insert a phrase that says "Spell the Spanish word for the number 1". On the Properties tab, we will change the text type to Dynamic Text and the Instance name to IblQuestion. We then will insert a phrase that says "You are correct, press the Next button". On the Properties tab, we will change the text type to Dynamic Text and the Instance name to IblResult.

Insert a Button

Compo	onents	⊶ × •≡ Modify	Text Co	mmands	Control Deb	oug Wir	idow He	р							茶 ち	Essentials
• 🖿	, User Interface	A														
	Button									≝ _ 4⊳_ ∉	100%	Properties ▼	Actions Librar	ry		+≣
												▲ EQ	btnSubmit		_	
	ComboBox															
	 DataGrid											Testance	.f. Button			
	T Label											Instance o	, Dutton		500	ap
	List											▼ Positio	n and Size			
	ProgressBar			World (lass CAD	- Leari	n Spanis	sh								
	 RadioButton 			Lea	rn to Snell Si	nanish Nu	mbers					ې دې	N: 100.00			
	도용 ScrollPane			Lou		Series in the	in berg					▼ 3D Pos	ition and View			
	cop Slider			Spell th	e spanish wo	ord for the	e number 1		 					. 7		
												Χ:	222.0 1: 170.			
		•										W:				
Ū,					+	mit										
					300	mik						<i>i</i> 27 X:				
de la compañía de la				You a	e correct, pre	ess the Ne	ext button		 					Reset		
1									 			- Color F	ffact			
					Ne	ĸt							inett.			
, en la construction de la const												Styl	e: None		•	
* :_												▶ Display				
Ø												Accessi	bility			
1												- Compo	nent Parameters			
ىلار												Property	asized	Value		
												enabl	ed	~		
٩,												label		Submit		
ø												labelP	lacement	right		▼
	4											✓ select	ed •			
\$	Timeline Output											+≣ visible		~		
		👁 🏦 🛛 1					35 40					8				
- <u>-</u> -⊒ ∎?	📲 Slide											- Priters				
n	📲 Button 🧳															

Select Window and Component to open that menu. On the button layer, we select the Button component and drag it to the stage. In the Property section of the Property tab, name the button, btnSubmit. Open the Property section and change the label to Submit.

Insert a Second Button

Components	× _{≂≣} Modify Text Commands Control Debug Window Help		🗱 Essentials
🔻 🚔 User Interface			
Button		м ² . 4. ф. коли –	Properties Actions Library *
🛛 CheckBox			btnNext
ColorPicker		Î	
ComboBox			Movie Clip
			Instance of: Button Swap
			The Position and Size
IT NumericStepper			
ProgressBar	World Class CAD - Learn Spanish		X: <u>222.00</u> Y: <u>251.00</u>
RadioButton	Learn to Shall Shanish Numbers		čý W: 100.00 H: 22.00
ScrollPane			
 slider 	Spell the spanish word for the number 1		✓ 3D Position and View
TextArea			
	•		
			17 55 0
	Submit		<u> </u>
	You are correct, press the Next button		
1	+		- Color Effect
	N⊛xt		
<i>•</i> ••			Style: None 🔻
* <u>-</u>			▶ Display
19			Accessibility
			✓ Component Parameters
			Property Value
*			emphasized
•			enabled 🗹
<u> </u>			label Next
0			labelPlacement right 🔻
		~	selected
A Timeline Output			toggle
output	⊙ ♣ I I 5 10 15 20 25 30 35 40 45 <u>50 55 60</u>	65 70 75 80 <u>8</u>	VISIDIE
Slide			► Filters
Button			
Action	• • •		

Again, on the button layer, we select the Button component and drag it to the stage. In the Property section of the Property tab, name the button, btnNext. Open the Property section and change the label to Next.

Insert a Textbox

While on the button layer, we select the TextInput component and drag it to the stage.

Name the input txtInput.

Properties

3



ActionScripts

We choose frame 1 of the Action layer. Then we select the Action tab and we type stop() on line 1 of the script.

This will stop the flash movie at the frame.

Actions

2



Add another Event Listener

We then add an event listener to determine when a button is selected or the Submit or Next button was clicked on. We type:



btnSubmit.addEventListener(MouseEvent.CLICK, ftnSubmit);

btnNext.addEventListener(MouseEvent.CLICK, ftnNext);

Declaring Variables

We need five variables, one for the word, one for the user's answer, one for the counter for the while loop, one for the random number generator, and the last for the string of the random number.



Var allows us to declare a variable. Then comes the variable name. After the colon is the type of variable, which in this case is a string, a number or an integer. If we want to assign a value to the variable, we use the equal sign in the same statement.

The Submit Function

We add the logic inside the function for the submit function, we first check the number in the variable intNumber to set the variable word to its Spanish number.

Next, we capture the text in the input box and set it to the variable txtAnswer. Then we convert it to lowercase.



The Submit Function

With a while loop, we first set the counter to zero. Then while the counter is less than 20. For each number, we check if the if the answer will equal the word (==) and if the answer does not equal the word (!=).

Inside the while loop, we add one to the counter.



The Next Function

In the Next function, we compute the random number, reset the variables and clear the input textbox and the results dynamic text.



```
function ftnNext(event:MouseEvent) {
    intNumber=Math.floor(Math.random()*20)+1;
    strNumber=intNumber.toString();
    lblQuestion.text = "Spell the spanish word for the number " + strNumber;
    lblResult.text = "";
    txtInput.text = "";
}
```

Test the Movie

FL	File Edit View Insert Modify Text Commands	Control Debug Window	Help	_	
44	Learn spanish numbers fla* ×	Play	Enter		
*≣		Rewind	Shift+,	Propert	es Library Actions
\Im	Scene 1	Go To End	Shift+.	Actio	n:1
k		Step Forward One Frame		1	stop()
ME.		Step Backward One Frame	,	3	btnSubmit.addEventLis
ُ ھ		Test	Ctrl+Enter	4	btnNext.addEventListe
		Test Movie	۱.	✓ In Flash	Professional
<u> </u>	World	Test Scene	Ctrl+Alt+Enter	In Brow	/ser
ø.	Le	Clear Publish Cache		In AIR [Debug Launcher (Desktop)
Т		Clear Publish Cache and T	est Movie	In AIR [Debug Launcher (Mobile)
/	Spell	Leen Disuback		On Dev	ice via USB
		Dop Playback		13	- function ftnSubmit(ev
		Play All Scelles		15	if (intNumber ==
•		Enable Simple Buttons		16	if (intNumber ==
\bigcirc		Mute Sounds	Ctrl+Alt+M	17	if (intNumber ==
		an anna tha Naut but	4	19	if (intNumber ==
× .	You a	re correct, press the Next but	ton	20	if (intNumber ==
-				21	if (intNumber ==
A		Next		22	if (intNumber ==
				24	if (intNumber ==
Ф Э				25	if (intNumber ==
19				26	if (intNumber ==
				27	if (intNumber ==
<i>•</i>				29	if (intNumber ==
*				30	if (intNumber ==
				31	if (intNumber ==
~				33	if (intNumber ==
<i></i>				34	if (intNumber ==
	4			> 35	txtAnswer=txtInpu
\$	Timeline Output			-= 37	count=0;
		20 25 30 35	40 45 50 55 6	0 38	while (count < 20
•∎ ₽>	Slide			39	l if ((intNumbe
0	Button			41	- }
	🜉 Action 🥒 🔹 📲			42	if ((intNumbe

We should select Control on the menu and then Test Menu and In Flash Professional.

Saving the Movie

We need to save our work, so we choose File on the top menu bar and then we press Save on the drop down menu.

We will call our animation "Learn Spanish numbers" and we will depress the Save button.

	ash 🕨 Flash Game	24	← ← Sear	ch Flash Game 4
Organize 🔻 Ne	w folder			
Videos	*	Name	*	Date modified
🜏 Homegroup			No items match yo	ur search.
👗 computer1 (C	OMPUTER1-P			
🖳 Computer				
A 05 (C)	H			
	(D.)			
ROBBINS2014	(D:)			
ROBBINS2014	(D:) (J:)	<	m	
RoBBINS2014	(D:) (J:) Learn spanish nu	<	m	

Publish the Flash Slide Show

We then choose File on the menu and Publish.

	File	Edit	View	Insert	Modify	Text	Commands
		New					Ctrl+N
▼≣		Open					Ctrl+O
\$		Browse	in Bridg	je		Ct	trl+Alt+O
		Open F	lecent				
e-1		Close					Ctrl+W
		Close A	All			Ct	rl+Alt+W
●_ ○		crobbi	ns@worl	dclassca	d.com		•
* *		Save					Ctrl+S
۶.		Save As	5			Ctr	l+Shift+S
T		Save as	Templa	ite			
/		Save A	I				
		Revert					
- 1		Import					+
●,		Export					+
		Dublick	Catting	-		Ctelu	Shift - E12
ø		Publish	setting	5		CLIP	50111+F12
/		Publish	1			Shift	+AIT+F12
•		AIR Set	tings				
		Action	Script Se	ttings			
		Exit					Ctrl+Q