


Button Symbols, Bitmaps, Actionscripting



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Topics

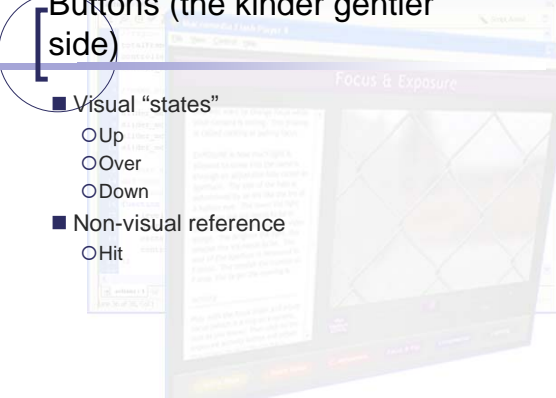
- Bitmaps (importing)
- Symbols
 - Buttons
- ActionScripting
 - Button listeners
 - Functions



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Buttons (the kinder gentler side)

- Visual "states"
 - Up
 - Over
 - Down
- Non-visual reference
 - Hit



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Buttons (Actionscript side)

- Can be told to listen for mouse events (rollover, click, release, etc . . .)
- ActionScript is **separate** (now more than ever)

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Action scripting in CS3

- (assuming ActionScript 3.0)
 - The five have become one.
 - DOM inspired event handlers
 - Custom Functions are no longer optional.

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Function – basic concept

- Do my work for me (think automatic response)
 - Responding to a greeting
 - Accept Input (e.g. "hey how's it going?")
 - Process (determine appropriate response)
 - Output response (e.g. "good, how are you?")
 - The function does the work
 - Doesn't handle unanticipated inputs well (e.g. "high five")

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Using Functions

- Call function name
- Add parameters, e.g. inputs (if necessary/desired) in parentheses
- Parentheses **not** optional
- End in a semi-colon
- Examples:

```
stop();
gotoAndStop(2);
addEventListener(MouseEvent.CLICK, onWindowDocBtnClicked);
```

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Creating functions

```
function functionName (input:inputType) {
    //code to run when function is called
}
```

Example:

```
function clickMyButton(evt:MouseEvent) {
    gotoAndStop(3);
}
```

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Instance names

- Actionscript reference to a symbols **instance**
- Different than a symbol name
- Different namespace than symbol names
- Assign using the properties window

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ActionScript (example)

```
1 stop();
2
3 //Step 1: What happens when you click.
4 function onWindowDocBtnClick(evt:MouseEvent) {
5     gotoAndStop(2);
6 }
7
8 //Step 2: Listening for the click.
9 windowDocBtn.addEventListener(MouseEvent.CLICK, onWindowDocBtnClick);
10
```

actions: 1
Line 10 of 10, Col 1

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ActionScript (comments)

```
1 stop();
2
3 //Step 1: What happens when you click.
4 function onWindowDocBtnClick(evt:MouseEvent) {
5     gotoAndStop(2);
6 }
7
8 //Step 2: Listening for the click.
9 windowDocBtn.addEventListener(MouseEvent.CLICK, onWindowDocBtnClick);
10
```

actions: 1
Line 10 of 10, Col 1

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ActionScript (recognized elements)

```
1 stop();
2
3 //Step 1: What happens when you click.
4 function onWindowDocBtnClick(evt:MouseEvent) {
5     gotoAndStop(2);
6 }
7
8 //Step 2: Listening for the click.
9 windowDocBtn.addEventListener(MouseEvent.CLICK, onWindowDocBtnClick);
10
```

actions: 1
Line 10 of 10, Col 1

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Things to change (function name & function call)

```

1 stop():
2
3 //Step 1: What happens when you click.
4 function onWindowDocBtnClick(evt:MouseEvent) {
5     gotoAndStop(2);
6 }
7
8 //Step 2: Listening for the click.
9 windowDocBtn.addEventListener(MouseEvent.CLICK, onWindowDocBtnClick);
10

```

actions: 1
Line 10 of 10, Col 1

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Things to change (instance name)

```

1 stop():
2
3 //Step 1: What happens when you click.
4 function onWindowDocBtnClick(evt:MouseEvent) {
5     gotoAndStop(2);
6 }
7
8 //Step 2: Listening for the click.
9 windowDocBtn.addEventListener(MouseEvent.CLICK, onWindowDocBtnClick);
10

```

actions: 1
Line 10 of 10, Col 1

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Things to change (event type)

```

1 stop():
2
3 //Step 1: What happens when you click.
4 function onWindowDocBtnClick(evt:MouseEvent) {
5     gotoAndStop(2);
6 }
7
8 //Step 2: Listening for the click.
9 windowDocBtn.addEventListener(MouseEvent.CLICK, onWindowDocBtnClick);
10

```

actions: 1
Line 10 of 10, Col 1

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Things to change (constant)

```

1 stop();
2
3 //Step 1: What happens when you click.
4 function onWindowDocBtnClick(evt:MouseEvent) {
5     gotoAndStop(2);
6 }
7
8 //Step 2: Listening for the click.
9 windowDocBtn.addEventListener(MouseEvent.CLICK, onWindowDocBtnClick);
10

```

actions: 1
Line 10 of 10, Col 1

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Things to change (“meat”)

```

1 stop();
2
3 //Step 1: What happens when you click.
4 function onWindowDocBtnClick(evt:MouseEvent) {
5     gotoAndStop(2);
6 }
7
8 //Step 2: Listening for the click.
9 windowDocBtn.addEventListener(MouseEvent.CLICK, onWindowDocBtnClick);
10

```

actions: 1
Line 10 of 10, Col 1

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Functions that will help in assignment 4

- `stop()`;
- `nextFrame()`; // takes you to the next frame in the timeline.
- `prevFrame()`; // takes you to the previous frame in the timeline.
- `gotoAndStop(1)`; // takes you to the first frame and stops the timeline. (can replace 1 with any number you want).

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