


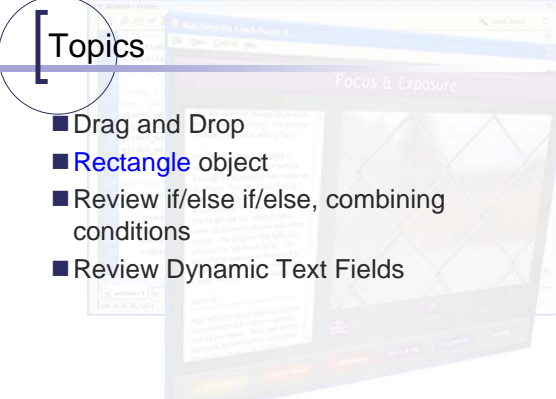
Drag and Drop, Custom Functions



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Topics

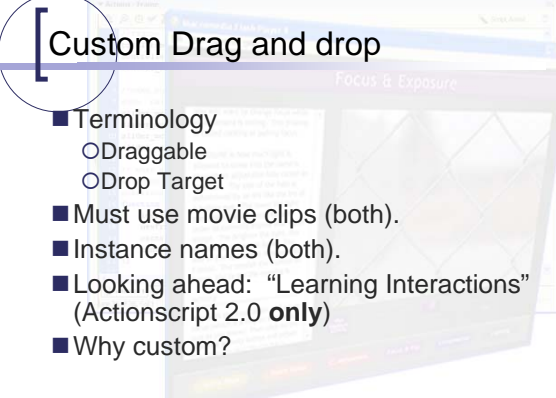
- Drag and Drop
- **Rectangle** object
- Review if/else if/else, combining conditions
- Review Dynamic Text Fields



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Custom Drag and drop

- Terminology
 - Draggable
 - Drop Target
- Must use movie clips (both).
- Instance names (both).
- Looking ahead: "Learning Interactions" (Actionscript 2.0 **only**)
- Why custom?



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Nesting code blocks

```

if(car == "out of gas" || car == "broken" || pool = "closed") {
  // Can you spot the logic error?
  // If the car is out of gas OR the car is broken OR the
  // pool is closed, then no swimming lesson.
} else {
  if(rachel == "chicken") {
    // Went to swimming lessons, but Rachel
    // is chicken, so she is not swimming.
  } else {
    // Went to swimming lessons, Rachel is willing
    // to swim.
  }
}

```

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Dynamic text fields

- Text can be altered using actionScript
- Syntax

```
objectPath.textFieldName.text = "newTextToShow";
```

- Example

```
(parent as MovieClip).feedbackText.text = "Wrong!
Don't quit your day job.";
```

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Getting Movie Clips to Move

- Use the startDrag() function

- Example:

```
function clickDrag0_2perc(evt:MouseEvent):void {
  this.drag0_2perc.startDrag();
}

```

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Arguments for startDrag()

- Can lock center (boolean)
- Can set up boundaries (Rectangle)
- Syntax for rectangle:
`var variableName:Rectangle = new Rectangle(x, y, width, height);`
- Example:
`var dragBounds:Rectangle = new Rectangle(40, 40, 704, 378);`
- Revised Function Call:
`this.drag0_2perc.startDrag(true, dragBounds);`

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Detecting the drop zone

- `dropTarget` property
- References the displayObject your draggable is over
- Weird pathing issue:
`this.drag0_2perc.dropTarget.parent.name`
- Unless you created your object at run time, then:
`this.drag0_2perc.dropTarget.name`

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Other important properties

- Object coordinates (both read and write).
- `.x`; // the x coordinate of an object
- `.y`; // the y coordinate of an object

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Custom Functions

- We've done this before
- New concept: Passing arguments (data)
- Syntax (familiar)
(variableName:variableType, nextName:nextType)
- Example:
`function calculateScore(nCorrect:int, nWrong:int):void`

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Once you have the arguments

- Call them up just like a variable.
- For example:
`function showScore(nCorrect:int, nWrong:int) {
 var score:Number;
 score = nCorrect / (nCorrect + nWrong);
 trace(score);
}`

- Function Call:
`showScore(8, 2);`

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