CompSci 94 Arrays, Loops with Arrays October 19, 2021



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Announcements

- QZ and Videos for next time
- Assignment 4 out today, due Oct 28

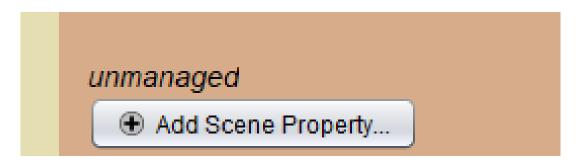
How and Where does one create an array?

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Create as a Scene Property

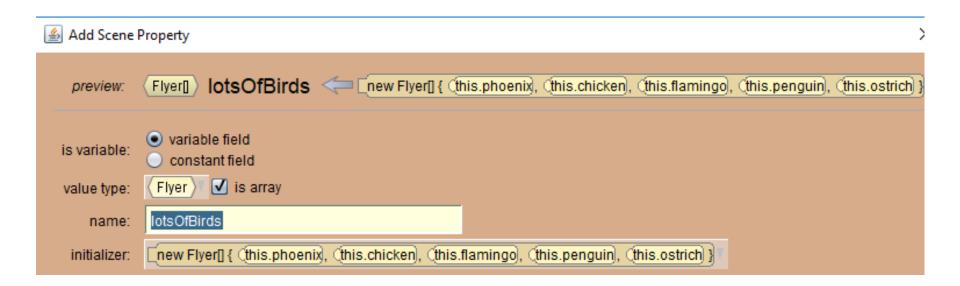


Go to bottom of page and add there.

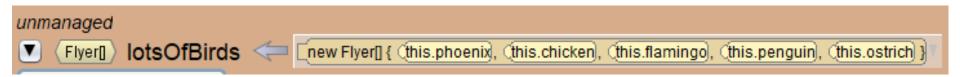


Example – Build array of Flyers

- Be sure to check box by "is array"
- Must add Objects into the array



Result





Q1. Arrays

• What is an array?

• Why create an array?

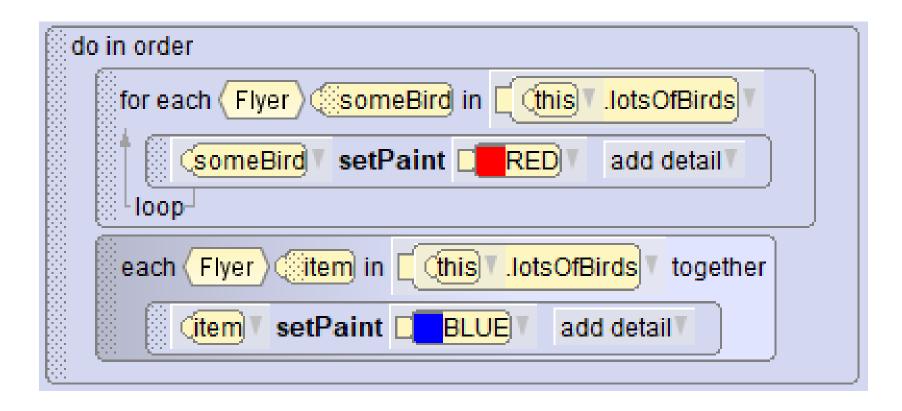
• Can an object be in more than one array?

Q2. What is the order the birds do something here?

lotsOfBirds (new Flyer[] { (this.phoenix), (this.chicken), (this.flamingo), (this.penguin), (this.ostrich) }

```
for each for
                                              for each (Flyer) oneBird in [ this I lotsOfBirds I
                                                                                    oneBird 7
                                                                                                                                                         spreadWings add detail
                                                                                                                                                         foldWings add detail V
                                                                                    oneBird 🔻
                                              #Move penguin between phoenix and chicken
                                                       (this.penguin)▼ move □RIGHT)▼, ≦2.3)▼
                                                                                                                                                                                                                                                                                                                                              add detail
                                              for each ( Flyer ) oneBird in [ (this) I lotsOfBirds |
                                                                                     oneBird V
                                                                                                                                                          spreadWings add detail
                                                                                                                                                         foldWings add detail V
                                                                                   oneBird 🔻
```

Q3. What does this code do?

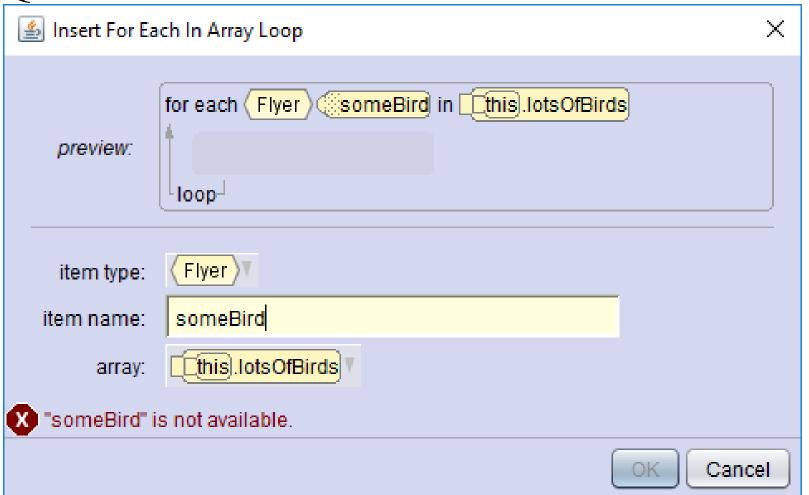


Q4. What does this code do?

Q5. What does this code do?

```
for each (Flyer) (someBird2 in this .lotsOfBirds for each (TextString) (somePhrase in this .greetings) (someBird2) say (somePhrase) add detail loop
```

Q6. What does this error mean?





BE CAREFUL!

• When naming loop variable

Don't CUT and PASTE ARRAY LOOP code

Class Today

Iterating through Arrays



