Announcements

• QZ and Videos for next time
• Assignment 4 out today, due Oct 28
How and Where does one create an array?
How and Where does one create an array?

• 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?

```java
new Flyer[] { this.phoenix, this.chicken, this.flamingo, this.penguin, this.ostrich }
```

```
for each Flyer oneBird in this.lotsOfBirds

oneBird spreadWings add detail

oneBird foldWings add detail

loop

// Move penguin between phoenix and chicken

this.penguin move RIGHT, 2.3 add detail

for each Flyer oneBird in this.lotsOfBirds

oneBird spreadWings add detail

oneBird foldWings add detail

loop
```
Q3. What does this code do?

The birds turn red one at a time. Then at the same time they all turn blue.
Q4. What does this code do?

Do in order:

- For each `TextString` saying in `this.greetings`
  - `this.phoenix` say `saying` add detail

- Each `TextString` phrase in `this.greetings` together
  - `this.penguin` say `phrase` add detail
Q5. What does this code do?

```plaintext
for each Flyer someBird2 in this.lotsOfBirds
    for each TextString somePhrase in this.greetings
        someBird2 say somePhrase add detail
```

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Q6. What does this error mean?

```
for each Flyer someBird in this.lotsOfBirds
```

Error message: "someBird" is not available.
BE CAREFUL!

• When naming loop variable

• Don’t CUT and PASTE ARRAY LOOP code
Class Today

- Iterating through Arrays