CompSci 4
Array Practice
Nov 10, 2011

\texttt{heights} = [1.06, 1.57, 7, 0.4, 1, 1.04]

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Announcements

• Next time Review for Test
  – Work old test problems on paper
• Test 2 is Thursday, November 17
• After Test – more Alice 2/Alice 3
• Today – more practice with arrays, visual and nonvisual
NonVisual Array

• Problem: Create an array of animals and then generate an array of the heights of the animals.
Create an array of Animals

• Under world properties, create new Variable, check the “make a array”
Create an empty array of heights

animals = ['whiteRabbit', 'tortoise', 'trex', 'turtle', 'penguin', 'monkey']

heights = []
Store the heights of the animals in the heights array

- Must drop the name of the array over items to use the array!

- Result:
  
  \[ \text{heights} = [1.06, 1.57, 7, 0.4, 1, 1.04] \]

- Exercise: Using the height array, how do we compute and print out the maximum height?

  The maximum height is 7.0
Classwork

Part 1: Visual Arrays – Array of frogs

• Double size of all frogs

• Randomly color some frogs

• Move frogs of new color all to left in array by swapping
Part 2 – Nonvisual array

• Create a nonempty array of integers
• Fill it with random integers
• Compute which number appears the most often