

Arrays and Lists — Overview
With what we've done so far we have enough tools to compute anything we want to compute.
However, some things are awkward (repetition), and we don't yet have a convenient way to store many values — something similar to subscripted values in math.
Most programming languages give you a way to represent *collections*. Exactly what you get depends on the language — e.g., C gives you only something quite primitive (but close to what the hardware can do), Java gives you something more abstract/useful, and Scala goes even further.

Slide 2



Slide 3

	Arrays in Scala
	<ul> <li>Two syntaxes for creating an Array. Examples:</li> <li>val a1 = Array(1,2,3,4) // four elements, initial values as given</li> <li>val a2 = new Array[Int](10) // ten elements, all zero</li> </ul>
Slide 4	<ul> <li>Syntax for referencing element uses name of array plus index in parentheses. Indexes range from 0 through length minus 1. Examples: println(a1(1)) a2(2) = 20</li> </ul>



