





Higher-Order Functions — Review/Recap

- "Higher-order functions" (first discussed in chapter 5) are functions that use other functions as parameters (or as return values). Very useful concept, supported in fairly different ways in different languages.
- As an example of how this is useful summing all elements of an array versus computing their product, versus finding the smallest or largest element, etc. Basic computation (a *reduction*) involves combining elements pairwise with a binary operator, and by using a higher-order functions we don't have to repeat the parts that are the same.







Slide 8

Collection Methods — Overview • As noted earlier, both arrays and lists provide a wide range of interesting(?) methods. ("Methods"? Briefly, special type of functions, described a bit in chapter 3.) The textbook lists some of them and is a good starting point. For full details, however ...



The Scala API — Tips/Gotchas Notice — some entries in left frame show two icons ("o" and "c"). "c" shows things you can do with objects of whatever type it is (e.g., Ints). "o" shows things you can do with Int itself — e.g., get minimum and maximum value. Some things are documented in unobvious places (e.g., ArrayOps, StringOps, RichInt).









