

Array Collection Methods

TODO: Not ready yet

We look at a number of methods of array objects that capture the idea of a “collection of values”, and offer ways to manipulate the entire collection, rather than performing an iterative for loop.

These are often called “higher-order functions”.

Relevant links

- Flanagan’s Book, section 7.9
- Array object documentation¹

Notes

Here is a summary of array’s higher-order methods:

foreach² Apply a function to each element of the array

map³ Apply a function to each element of the array and form a new array from the results

reduce⁴ Apply a function on an accumulator and each array value in order, resulting in one final reduced result.

filter⁵ Given a predicate, return a new array with those items from the array that evaluate to true.

every⁶ Given a predicate, return true or false depending on whether all items from the array satisfy it or not.

some⁷ Given a predicate, return true or false depending on whether at least one item from the array satisfies it or not.

¹https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Array