

Cheatsheet

Control flow

- [if](#) Standard if statement.
- [and](#) Returns true if all arguments to it are true.
- [or](#) Returns true if any arguments to it are true.
- [for](#) Looping structure. A single for can represent many nested loops.
- [cond](#) Case statement.

Collections

- [reduce](#) Will run a function over a collection. The function will be passed the result of the last function call and each item in the collection.
- [filter](#) Takes test function and a collection. Returns a new collection with only the items from the first collection that caused the test to pass.
- [map](#) Takes a function and a collection. Returns a new collection with the result of running the function over each item in the collection. Be careful. It is lazy.
- [mapv](#) Like map but not lazy. Do not use with infinite sequences.
- [concat](#) Joins two or more sequences.
- [set](#) Turns a sequence into a set.
- [first](#) Returns first item of a sequence.
- [rest](#) Returns all but the first item of a sequence.
- [take](#) Pulls the first n items out of a sequence.
- [take-while](#) Pulls items out of a sequence until the test function returns false. No further items will be checked.
- [range](#) Creates a new sequence of numbers. Can be given a lower bound, upper bound and amount to increment by.
- [iterate](#) Creates a sequence by running a function over a value. Then a function over the return value of the first call, and so on.

Predicates

- [=](#) Equality check.
- [+](#) Addition.
- [-](#) Subtraction.
- [>](#) Greater than.
- [<](#) Less than.
- [mod](#) Modulo.
- [rem](#) Remainder.
- [even?](#) Is number even?
- [odd?](#) Is number odd?
- [every?](#) Runs a test function over a collection. Returns true if test passes for each item in collection.

Functions

- [defn](#) Define a function.
- [fn](#) Create a function.

Strings

- [str](#) Convert to string.

Naming

- [let](#) Allows you to name things. Like local variables.
- [def](#) Give something a global name.

Output

- [println](#) Output a string with a newline.