

Lists - Snap

A list keeps track of multiple values

- Compared to a variable which keeps track of one value



List Access

- Click the arrow of the list to add an item to the list



- Assign the list to a variable



- Access items in the list

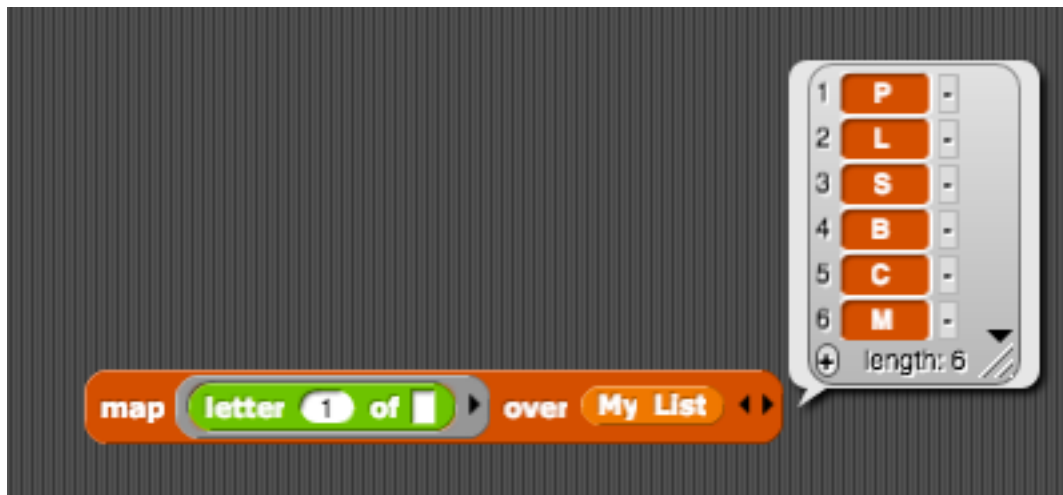


Mapping items over a list

- Works like a function in math

$$f(x) = \sqrt{x} \quad 0 \leq x$$

This function takes the first letter of each item in
the list



Mapping items over a list

Input: a list

Output: a list

Each item in the list gets placed in the blank, the calculation of whatever function we're using gets evaluated, and the result is output to a list.

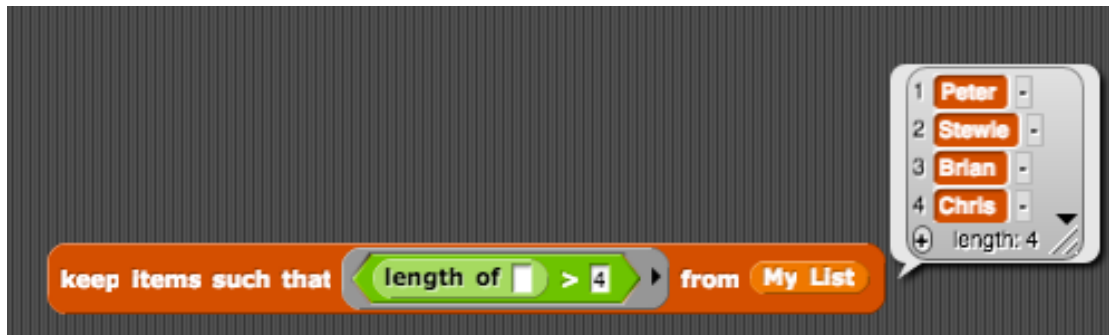
Mapping items over a list



Mapping items over a list

Input: a list

Output: a list



Lab Assignment

- 2 options for this assignment
- Option 1: Sentence generator that includes 3 blocks:
 - Sentence generator (containing the below 2 blocks)
 - Prepositional phrase
 - Verb phrase

Lab Assignment

- Option 2: Contains 8 blocks
 - Sentence block
 - Block that outputs a list of first names from a list
 - Block that outputs a list of items 5 letters or longer
 - Block that outputs a list of items that are numbers
 - Block that outputs a list of items that start with a number
 - Acronym building block (this is provided)
 - Longest word block
 - A comment block describing what is going on in the code