



The Beauty and Joy of Computing

Lecture #18 Higher Order Functions II



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THE FUTURE OF MAPS? GOING INDOORS!

Google and Apple are both working on projects to continue your mapping experience indoors. (I'd be happy for a good map of the Berkeley Campus, frankly!) This would be a huge win for malls, museums, and city dwellers.



maps.google.com/help/maps/indoormaps/



Today

- Review useful HOFs
 - map Reporter over List
 - Report a new list, every element E of List becoming Reporter(E)
 - keep items such that Predicate from List
 - Report a new list, keeping only elements E of List if Predicate(E)
 - combine with Reporter over List
 - Combine all the elements of List with Reporter(E)
 - This is also known as "reduce"
- Acronym example
 - keep → map → combine
- The script, run and launch
- For each
- Compose example

