

## The Beauty and Joy of Computing

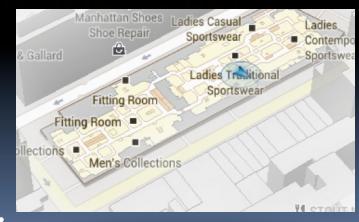
Lecture #18
Higher Order Functions II



UC Berkeley EECS
Sr Lecturer SOE
Dan Garcia

## 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/



## 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



