CS52: Recursion Patterns

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Spring 2017

#### Numeric recursion

```
Examples:
factorial
numList
sumList (from assignment 0)
```

## Numeric recursion + baggage

Some times we need additional information, but the recursion is still just on one of the numbers.

```
Examples: power interval interval2
```

# Simple list recursion

```
Examples:

appendAll myLength
sumList (from lecture) cubeAll
rev (version 1.0) uniquify
duplicate myAppend
```

# Simple list recursion + baggage

Some times we need additional information, but the recursion is still just on the list.

#### Examples:

lessThanList member myFilter funPairs consAll

## Simultaneous list recursion

Some times we need additional information, but the recursion is still just on the list.

Examples: sameValues myZip

### Recursion with an accumulator

```
Examples: revAux addAllAux (from Intro to SML)
```