# Filtering and Sorting Data in Kotlin

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# Functional Style and Collections

**Many benefits of using functional style with collections**

**Can use library functions**

**Simplifies code**

**May look odd if you are not used to it**

# Essential Functions

**filter**

**map**

filter

**Transforms collections**

**Filters out unwanted items**

**Similar to 'where' in SQL**

map

**Transforms items**

**Similar to 'select' in SQL**

# Demo

**Using filter and map**

predicate

**all**

**any**

**count**

**find**

# Demo

## Using predicates

# Flattening Collections

**flatmap**

# Demo

**Using flatmap**

# Summary

**Kotlin collections use lambdas**

**Many helpful methods**

**Easier to read code**

**One problem though**
- Lists could be very large