Duke UNIVERSITY

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Course Info

Deadline: You must submit this week's assignments by **March 25, 2018, 11:59 PM PST**.

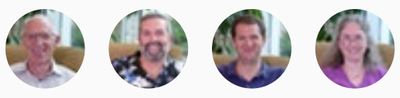
THIS WEEK'S FORUM

## Week 3

Welcome to the course discussion forums! Ask questions, debate ideas, and find classmates who share your goals. Browse popular threads below or other forums in the sidebar.

Go to forum

# CSV Files and Basic Statistics in Java



A common format for storing tabular data (any data organized into columns and rows) is in comma separated values (CSV) files. In this module, you will learn how to analyze and manipulate data from multiple CSV data files using a powerful open-source software package: Apache Commons CSV. Using this library will empower you to solve problems that could prove too complex to solve with a spreadsheet. By the end of this module, you will be able to: (1) Use the open-source Apache Commons CSV package in your own Java programs; (2) Access data from one or many CSV files using Java; (3) Convert strings into numbers; (4) Understand how to use “null” in Java programs (when you want to represent “nothing”); (5) Devise an algorithm (and implement in Java) to answer questions about CSV data; and (6) Analyze CSV data across multiple CSV files (for example, find maximums, minimums, averages, and other simple statistical results).

Less

## Which Countries Export...?

Module Learning Outcomes 10 min

CSV Data: Comma Separated Values 2 min — Resume

Using CSV Libraries 7 min

Which Countries Export...? Developing an Algorithm 4 min

Which Countries Export...? Translating into Code 5 min

CSVExport: Summary 48 sec

Programming Exercise: Parsing Export Data 10 min

**Practice Quiz:**
Which Countries Export...? 6 questions

## Weather CSV Problem

Hottest Day in a Year: Comma Separated Values 2 min

Converting Strings to Numbers 4 min

Maximum Temperature: Developing an Algorithm 5 min

Java for Nothing—null: When You Don't Have an Object 4 min

Maximum Temperature: Translating into Code 4 min

Maximum Temperature: Testing Code 3 min

Maximum Temperature from Multiple Datasets 5 min

Maximum Temperature Refactored 4 min

CSVMax: Summary 41 sec

Programming Exercise: Parsing Weather Data 10 min

**Practice Quiz:**
Weather Data 9 questions

## Review

**Quiz:**
CSV Files and Basic Statistics in Java 11 questions Due March 25, 11:59 PM PDT

End of Module Survey 10 min